IBM DB2 10.5
for Linux, UNIX, and Windows

Message Reference Volume 1
Before using this information and the product it supports, read the general information under Appendix B, "Notices," on page 957.
Part 1. Introduction to messages

It is assumed that you are familiar with the functions of the operating system where DB2® is installed. You can use the information contained in the following chapters to identify an error or problem and resolve the problem by using the appropriate recovery action. This information can also be used to understand where messages are generated and logged.

Message Structure

Message help describes the cause of a message and describes any action you should take in response to the message.

Message identifiers consist of a three character message prefix, followed by a four or five digit message number, followed by a single letter suffix. For example, SQL1042C. For a list of message prefixes, see “Invoking message help” on page 2 and “Other DB2 Messages” on page 2. The single letter suffix describes the severity of the error message.

In general, message identifiers ending with a C are for severe messages; those ending with an E indicate urgent messages; those ending with an N indicate error messages; those ending with a W indicate warning messages; and those ending with an I indicate informational message.

For ADM messages, message identifiers ending with a C indicate severe messages; those ending with an E indicate urgent messages; those ending with a W indicate important messages; and those ending with an I indicate informational messages.

For SQL messages, message identifiers ending with a C indicate critical system errors; those ending with an N indicate error messages; those ending with a W indicate warning or informational messages.

Some messages include tokens, sometimes also called message variables. When a message containing tokens is generated by DB2, each token is replaced by a value specific to the error condition that was encountered, to help the user diagnose the cause of the error message. For example, the DB2 message SQL0107N is as follows:

• from the command line processor:
  SQL0107N The name "<name>" is too long. The maximum length is "<length>".
• from the DB2 information center:
  SQL0107N The name name is too long. The maximum length is length.

This message includes the two tokens "<name>" and "<length>". When this message is generated at runtime, the message tokens would be replaced by the actual name of the object that caused the error, and the maximum length allowed for that type of object, respectively.

In some cases a token is not applicable for a specific instance of an error, and the value *N is returned instead, for example:

SQL20416N The value provided ("*N") could not be converted to a security label. Labels for the security policy with a policy ID of "1" should be "8" characters long. The value is "0" characters long. SQLSTATE=23523
**Invoking message help**

To invoke message help, open the command line processor and enter:

```
? XXXnnnnn
```

where XXX represents a valid message prefix and nnnnn represents a valid message number.

The message text associated with a given SQLSTATE value can be retrieved by issuing:

```
? nnnnn
```

or

```
? nn
```

where nnnnn is a five digit SQLSTATE (alphanumeric) and nn is the two digit SQLSTATE class code (first two digits of the SQLSTATE value).

**Note:** The message identifier accepted as a parameter of the `db2` command is not case sensitive. Also, the single letter suffix is optional and is ignored.

Therefore, the following commands will produce the same result:

- ? SQL0000N
- ? sql000
- ? SQL0000w

To invoke message help on the command line of a UNIX based system, enter:

```
db2 "? XXXnnnnn"
```

where XXX represents a valid message prefix and nnnnn represents a valid message number.

If the message text is too long for your screen, use the following command (on Unix-based systems and others which support 'more'):

```
db2 "? XXXnnnnn" | more
```

**Other DB2 Messages**

Some DB2 components return messages that are not available online or are not described in this manual. Some of the message prefixes might include:

- **AUD** Messages generated by the DB2 Audit facility.
- **DIA** Diagnostics messages generated by many DB2 components. These messages are written in the DB2 diagnostic (db2diag) log files, and are intended to provide additional information for users and DB2 service personnel when investigating errors.

In most cases, these messages provide sufficient information to determine the cause of the warning or error. For more information on the command or utility that generated the messages, please refer to the appropriate manual where the command or utility is documented.
Other Message Sources

When running other programs on the system, you may receive messages with prefixes other than those mentioned in this reference.

For information on these messages, refer to the information available for that program product.
Part 2. ADM Messages

This section contains the Administration Notification (ADM) messages. The messages are listed in numeric sequence.
Chapter 1. ADM0000 - ADM0499

ADM0001C  A severe error has occurred. Examine the administration notification log and contact IBM Support if necessary.
# Chapter 2. ADM0500 - ADM0999

| ADM0500E | The DB2 Service does not have the necessary authority to complete the command. If a user account has been associated with the DB2 Service, ensure that the user account has the correct access rights on the local system and access to the Domain Security Database for user authentication and group enumeration. |
| ADM0506E | DB2 has automatically updated the parameter kernel parameter from originalValue to the recommended value recommendedValue. |
| ADM0510E | AGENTPRI configuration variable or Agent Priority Resource Configuration changes are not possible without root capabilities. |
| ADM0501C | A stack overflow exception has occurred. The DB2 instance has terminated abnormally. To remedy this problem, you may increase the default stack size for db2syscs.exe using the db2hdr utility as follows: db2hdr \sqlib\bin\db2syscs.exe /s:<stackreserve>,<stackcommit> Note that increasing the default stack size will consume virtual memory space and may reduce the maximum number of concurrent connections. Contact IBM Support for further assistance. |
| ADM0507W | DB2 could not automatically update the parameter kernel parameter to the recommended value recommendedValue. Update this kernel parameter manually. |
| ADM0508E | DB2 was unable to load the Java interpreter library libraryPath. This error commonly occurs because of restrictions imposed by the operating system. Consult the IBM DB2 documentation for a solution. If this problem persists, contact IBM support. |
| ADM0502C | The DB2 instance has terminated abnormally. To remedy this problem, increase the AGENT_STACK_SZ DBM configuration parameter. Contact IBM Support for further assistance. |
| ADM0509E | A non root capable instance of DB2 has been detected. Limited functionality will be available. |
| ADM0503C | An unexpected internal processing error has occurred. All DB2 processes associated with this instance have been shutdown. Diagnostic information has been recorded. Contact IBM Support for further assistance. |
| ADM0510E | AGENTPRI configuration variable or Agent Priority Resource Configuration changes are not possible without root capabilities. |
| ADM0504C | An unexpected internal processing error has occurred. All DB2 processes associated with this instance have been suspended. Diagnostic information has been recorded. Contact IBM Support for further assistance. |
| ADM0511E | Raw device access using the character device controller has been deprecated by the operating system and might be removed in the future. The DB2 database manager processes can access the same device by using the block device interface; however db2relocatedb will need to be run on each individual database to change the name of the affected device in any table space containers and raw log containers. |

**Explanation:** When working with containers to store data, the database manager supports direct disk (raw) access using the block device interface (that is, raw I/O).

**User response:** Change the name of the affected device in any table space containers and raw log containers by using the db2relocate command.
ADM0512W  The database manager instance does not have permission to pin a database memory segment. Contact your system administrator to grant permission for the database manager instance owner to pin memory. The database manager will continue to function with unpinned database memory.

ADM0513W  db2start succeeded. However, no I/O completion port (IOCP) is available.

Explanation:  This error is returned when there are no I/O completion ports with status "Available" on the computer where DB2 database is installed. An I/O completion port is an operating system channel for I/O requests. Using I/O completion ports can improve the performance of very large databases.

User response:  You do not have to respond to this error, unless you want to use I/O completion ports to improve performance. To configure I/O completion ports, follow the instructions in the topic called "Configuring IOCP on AIX" in the DB2 Information Center.

ADM0514W  The system Network Time Protocol (NTP) process was not detected to be up and running or properly synchronized.

Explanation:  To ensure that clock-sensitive operations like error-logging, monitoring and point-in-time recovery run optimally across a distributed environment, it is highly recommended that the Network Time Protocol (NTP) service be running and synchronized to the same system peer across all members.

User response:  Ensure that the NTP service is up and running and that all members are synchronized to the same host.

ADM0515W  The system clock on this member is out of synchronization by more than the allowed threshold with member coordinator-member. The differential is timestamp-diff minutes.

Explanation:  Timestamps from each member are periodically compared to ensure that the time discrepancy between members is less than the predefined allowable threshold set by the MAX_TIME_DIFF database manager configuration parameter. The differential between the local system clock on this host and that of the indicated remote member has been detected to exceed this limit.

User response:  Verify that the differentials between the system clocks on all members are within the limit specified by MAX_TIME_DIFF.

ADM0516W  CPU binding information: cluster caching facility (CF) processes are bound to number cores.

Explanation:  When a cluster caching facility and a DB2 member coexist on a single host, the CF processes will be assigned to a subset of the total cores available. For more specific information on the logical processors, see the db2diag.log file.

User response:  No user response is required.

ADM0517W  CPU binding information: DB2 member processes are bound to number cores.

Explanation:  When a DB2 member and a cluster caching facility (CF) coexist on a single host, the member processes will be assigned to a subset of the total cores available. For more specific information on the logical processors, see the db2diag.log file.

User response:  No user response is required.
Chapter 3. ADM1000 - ADM1499

ADM1010I Reconcile started on table tableName.

ADM1011I Reconcile has completed successfully on table tableName.

ADM1012W Reconcile has failed on table tableName. The table will now be placed into DATALINK Reconcile Not Possible (DRNP) state.

ADM1013W Reconcile for table tableName is successful on Data Links Managers (DLMs) that were up and is pending on DLMs that were down. The table will now be placed in DATALINK Reconcile Pending (DRP) state.

ADM1014E Reconcile has failed on table tableName.

ADM1022W The metadata information for the DATALINK column(s) is missing on DB2 Data Links Manager serverName.

ADM1023W Reconcile processing is PENDING on Data Links Manager serverName.

ADM1024W Reconcile processing is COMPLETE on Data Links Manager serverName.
Chapter 4. ADM1500 - ADM1999

ADM1500W DB2 is unable to locate log file filename.

ADM1501W Log file compression failed on log file log-file during archiving for log-archive-method for database database on member member-number.

Explanation: A log file could not be compressed before it was archived. The warning message is logged in the db2diag.log file. The log file is still archived without being compressed.

Should the archive of the log file fail, an ADM1848W message is also logged in the db2diag.log file.

User response: None.

ADM1502C A command has set BACKUP_PENDING state off. Data integrity or the referential integrity of the data is at risk.

Explanation: There are multiple events that can turn on BACKUP_PENDING state for a database. In general, when a database is in BACKUP_PENDING state, you should perform a backup operation to turn the BACKUP_PENDING state off.

You can manually change the BACKUP_PENDING database state to OFF by using the db2dart tool. Using the db2dart tool to change the database state should be done only in rare circumstances, because changing the database state in this way puts data integrity at risk.

This message is returned when the BACKUP_PENDING state has been manually turned off and as a result data integrity or the referential integrity of the data cannot be guaranteed if a full, offline database backup is not taken.

User response: To ensure data integrity or the referential integrity of the data, perform a full offline database backup.

ADM1503W Application appl-name with application handle appl-handle and application id appl-id running under authentication ID auth_id has been forced off of the database because caching facility (CF) has run out of memory used for locking. The unit of work will be rolled back.

Explanation: The CF memory used for locking for this particular database has been exhausted. This application has been forced off the database in order to make CF memory available for locking purposes. The unit of work will be rolled back.

This condition indicates that the LOCKLIST database configuration parameter is too large relative to the CF_LOCK_SZ database configuration parameter. Reducing the LOCKLIST database configuration parameter or increasing the CF_LOCK_SZ parameter can help avoid this condition.

User response: Take the following action:
- Decrease the LOCKLIST database configuration parameter
- Increase the CF_LOCK_SZ database configuration parameter.

ADM1504W The caching facility (CF) memory used for locking has run out of memory. The amount of CF memory used for locking will be increased and the amount of CF memory used for group buffer pool usage will be decreased. The performance of database db-name may be impacted.

Explanation: The caching facility (CF) has run out of memory used for locking. To make more CF memory available for locking purpose, the amount of the CF memory used for group buffer pool purpose will be reduced.

This condition indicates that the LOCKLIST database configuration parameter is too large relative to the CF_LOCK_SZ database configuration parameter. If this condition persists, reduce the LOCKLIST database configuration parameter or increase the CF_LOCK_SZ parameter.

User response: No action required.

ADM1510W A file sharing violation has occurred while accessing log file fileName.

Another process may be using this file. DB2 will try to delete it later.

ADM1511W The error error has occurred while deleting log file filename. DB2 will try to delete this file later.

ADM1512E The error error has occurred while deleting log file filename. User must manually delete this file.

ADM1513W The log file fileName has been deleted.

ADM1514W The log file fileName no longer exists.
ADM1524I  Member crash recovery has been initiated.

Explanation: The database modified by a DB2 member is being returned to a consistent and usable state. Any incomplete transactions that were in memory when the DB2 member crashed will be rolled back, and any committed transactions that were in memory when the DB2 member crashed will be completed. The database is not available on this DB2 member until member crash recovery successfully completes; however, other DB2 members can continue to access the database while the recovery is in progress.

User response: No user action required.

ADM1525I  Member crash recovery has completed successfully.

Explanation: The database modified by this DB2 member has been returned to a consistent state. Any incomplete transactions that were in memory when the crash occurred were rolled back and any committed transactions were completed.

User response: No user action required.

ADM1526E  Member crash recovery has failed with SQLCODE SQLCODE

Explanation: Member crash recovery has failed. The database is not available on the failed DB2 member until member crash recovery successfully completes. Transactions on other DB2 members may be affected if there were any retained locks held on the member at the time of the DB2 member’s abnormal termination.

User response: See the DB2 Information Center for information about the given SQLCODE.

ADM1527I  Group crash recovery has been initiated.

Explanation: The database is being returned to a consistent and usable state. Any incomplete transactions that were in memory when the crash occurred will be rolled back and any committed transactions will be completed. The database is not available until group crash recovery successfully completes.

User response: No user action required.

ADM1528I  Group crash recovery has completed successfully.

Explanation: The database has been returned to a consistent and usable state. Any incomplete transactions that were in memory when the crash occurred were rolled back and any committed transactions were completed.

User response: No user action required.

ADM1529E  Group crash recovery has failed with SQLCODE SQLCODE

Explanation: Group crash recovery has failed. The database is not available until group crash recovery successfully completes.

User response: See the DB2 Information Center for information about the given SQLCODE.

ADM1530I  Crash recovery has been initiated.

Explanation: The database is being returned to a consistent and usable state. Any incomplete transactions that were in memory when the crash occurred will be rolled back, and any committed transactions that were in memory when the crash occurred will be completed. The database is not available until crash recovery successfully completes.

User response: No user action required.

ADM1531I  Crash recovery has completed successfully.

Explanation: The database has been returned to a consistent and usable state. Any incomplete transactions that were in memory when the crash occurred were rolled back and any committed transactions were completed.

User response: No user action required.

ADM1532E  Crash recovery has failed with SQLCODE SQLCODE.

Explanation: Crash recovery has failed. The database is not available until crash recovery successfully completes.

User response: See the DB2 Information Center for information about the given SQLCODE.

ADM1533W  Database has recovered. However, one or more table spaces are offline.

ADM1534W  Table space tablespaceName could not be reduced in size because there are used pages at the end of the table space.

ADM1540W  Application appl_name with application handle appl_handle and application id appl_id executing under authentication id auth_id has used more log space then allowed by database configuration parameter MAX_LOG (current value MAX_LOG_value). Terminate this application by COMMIT, ROLLBACK or FORCE APPLICATION.
ADM1541W Application appl_name with application handle appl_handle and application id appl_id executing under authentication id auth_id has been forced off of the database for violating database configuration parameter NUM_LOG_SPAN (current value NUM_LOG_SPAN_value). The unit of work will be rolled back.

ADM1542W Application appl_name with application handle appl_handle and application id appl_id executing under authentication id auth_id will be forced off of the database for violating database configuration parameter MAX_LOG (current value MAX_LOG_value). The unit of work will be rolled back.

ADM1550W The active log space exceeds the LOGPRIMARY DB configuration parameter. ROLLBACK may be slow if log files have to be retrieved from archive.

ADM1551W DB2 is retrieving the active log file fileName from archive. This may result in a delay.

ADM1552E DB2 is unable to open active log file filename. This could be caused by problem in retrieving the log file from archive. DB2 will try again every 5 minutes.

ADM1600W There was not enough memory to enable parallel recovery; however, recovery is proceeding. Increase either the DBHEAP or UTIL_HEAP_SZ configuration parameters by blockSize for any future recoveries.

ADM1601E A recovery or rollforward operation on database database-name cannot continue because of a missing log file log-file-name on database partition dbpartitionnum and log stream log-stream-ID.

Explanation: The recovery or rollforward operation cannot find the specified log file in the archive database log directory, or overflow log directory for the given log stream.

If the operation was a crash recovery, the database is left in an inconsistent state. If the operation was a rollforward operation, the operation has stopped and the database is left in rollforward pending state.

User response: Recover the missing log file by taking one of the following actions:

- Move the specified log file into the database log directory and restart the operation.
- If an overflow log path can be specified, restart the operation with the overflow log path, specifying the path that contains the log file.

If the missing log file cannot be found, determine whether one of the following special cases applies:

- If the operation is a ROLLFORWARD DATABASE command to maintain a standby system through log shipping, this error might be normal, because some files that are available on the primary site might not yet be available on the standby system. To ensure that your standby system is up-to-date, issue a ROLLFORWARD DATABASE command with the QUERY STATUS option after each rollforward operation to verify that the log replay is progressing properly. If you find that a rollforward operation on the standby system is not making progress over an extended period of time, determine why the log file that is reported as missing is not available on the standby system, and correct the problem. Note that the ARCHIVE LOG command can be used to truncate currently active log files on the primary system, making them eligible for archiving and subsequent replay on the standby system.
- If a ROLLFORWARD DATABASE command with the TO END OF LOGS option was issued following a restore operation from an online backup image in which the only available logs are those that were included in the backup image, there are two possible scenarios to consider:
  - Scenario 1: All of the log files contained in the backup image are found by the rollforward operation. However, the rollforward operation still looks for log files that were updated following the original backup operation. Bring the database to a consistent state by issuing the ROLLFORWARD DATABASE command with the STOP option (without the TO END OF LOGS option). To avoid this scenario in the future, use the END OF BACKUP option instead of the END OF LOGS option, because the rollforward operation will not look for log files that were updated after the backup was taken.
  - Scenario 2: One or more log files that were contained in the backup image were not found by the rollforward operation. These log files are required to bring the database to a consistent state. Attempting to bring the database to a consistent state by issuing the ROLLFORWARD DATABASE command with the STOP option (without the TO END OF LOGS option) will fail with SQL1273N; recover the missing log file, as described earlier in this section.

If the missing log file cannot be recovered:
If the operation is a ROLLFORWARD DATABASE command, you can issue the ROLLFORWARD DATABASE command again with the STOP option (without the END OF LOGS option or the END OF BACKUP option) to bring the database to a consistent state. If this consistency point (immediately prior to the missing log file) is not acceptable, you can restore the database and roll forward to any point in time that is prior to the missing log file by providing an earlier time stamp to the ROLLFORWARD DATABASE command.

If the operation is a ROLLFORWARD DATABASE command with the STOP or COMPLETE option (without the END OF LOGS option or the END OF BACKUP option), the missing log file is needed to bring the database to a consistent state. Because you cannot recover the missing log file, you must restore and roll forward to an earlier point in time (as long as that point in time is not prior to the minimum recovery time).

ADM1602W Rollforward recovery has been initiated.
ADM1603I DB2 is invoking the forward phase of the database rollforward recovery.
ADM1604I DB2 is invoking the forward phase of the table space rollforward recovery.
ADM1605I DB2 is invoking the backward phase of database rollforward recovery.
ADM1606I DB2 is invoking the backward phase of table space rollforward recovery.
ADM1607I DB2 is invoking the completion phase of the database rollforward recovery.
ADM1608I DB2 is invoking the completion phase of the table space rollforward recovery.
ADM1609W DB2 is canceling the database rollforward recovery.
ADM1610W DB2 is canceling the table space rollforward recovery.
ADM1611W The rollforward recovery phase has been completed.
ADM1612W Online table space rollforward recovery could not complete due to the high volume of database activity. Either reduce the database activity, increase the MAXAPPLS configuration parameter, or perform an offline table space rollforward.
ADM1613W The table space "tablespaceName" (ID "tablespaceID") was previously rolled forward to "timestampPIT" at "timestampRFWD".
ADM1614W The table space "tablespaceName" (ID "tablespaceID") has been placed into restore pending state. The rest of the table spaces have been rolled forward to the end of logs.
ADM1615W DB2 cannot roll forward table space "tablespaceName" (ID "tablespaceID") because it is still used by an active transaction. The application handle is "appHandle". Terminate this application by COMMIT, ROLLBACK, or FORCE APPLICATION.
ADM1616E DB2 could not find the dropped table log record that matches the given dropped table with ID "droppedTableID" during recovery.
ADM1617W The table space "tablespaceName" (ID "tablespaceID") that was included in the last rollforward has not yet completed. It has not been included in the table space list provided for this rollforward. It has been placed into restore pending state.
ADM1618W DB2 cannot recover table space "tablespaceName" (ID "tablespaceID") during database rollforward. The table space has been placed in rollforward pending state. To recover, perform a table space rollforward after the database rollforward is complete.
ADM1619W Rollforward cannot stop here. Rollforward to LSN "rollforwardLSN" in log file "logFilename".
ADM1620W Table partition with objectID "objectID" in tablespace "tablespaceID" was skipped during drop table recovery. To recover the data from this partition include the tablespace in the rollforward list.
ADM1700W  DB2 is unable to use the log path specified by the backup image; Switching to the default log path.

ADM1701W  The USEREXIT log retention logging is not enabled because the LOGARCHMETH1 DB configuration parameter is set to LOGRETAIN.

User response:

ADM1710C  The database is not accessible because the DB2 database manager cannot write to the log control file file-name on database partition database-partition-num. Possible reasons for this include: the file does not exist; the file is not accessible to the database manager because of network, file system, or OS problems; or incorrect file permissions are preventing the database manager from writing to the file. Ensure that the file is accessible to the database manager and that the file system is functioning properly, and restart or reconnect to the database.

ADM1711W  The log control file log-control-file-name on database partition database-partition-num was missing or corrupt. This might be a result of the database previously being stopped abnormally. The database manager recreated this file.

ADM1712C  The log control file file-name on database partition database-partition-num was missing or corrupt. The DB2 database manager attempted to recreate it, but was not successful. Possible reasons for this include: the file is not accessible to the database manager because of network, file system, or OS problems; or incorrect file permissions are preventing the database manager from reading from or writing to the file. Ensure that the file is accessible to the database manager and that the file system is functioning properly.

ADM1713C  The DB2 database manager cannot start the database on database partition database-partition-num because the database manager can open neither the primary log control file primary-log-file nor the secondary log control file secondary-log-file.

ADM1800E  DB2 was unable to confirm log logNumber was archived on the old log path. Take a database backup to ensure that the database may be recovered.

ADM1801W  DB2 could not access more than 2GB of file storage on the raw device. Therefore, only 2GB of file storage will be used for logging.

ADM1802W  Database was put into offline backup pending state because the LOGFILSIZ DB configuration parameter has changed while using raw device for logging.

ADM1803W  There is not enough space left on raw device path for log files. The actual device size is actualDevice 4K pages. The minimum required device size is minimumDevice 4K pages.

ADM1804W  The raw device is too small to support active log space. actualDeviceSize 4K pages are available, however, minimumDeviceSize 4K pages are required. Use a larger device or reduce the LOGPRIMARY and/or the LOGFILSIZ DB configuration parameters.

ADM1805E  DB2 is unable to use the NEWLOGPATH DB configuration parameter because the raw device is already being used as a log or table space container elsewhere.

ADM1806E  Unable to use the NEWLOGPATH DB configuration parameter newLogPath DB2 will continue to use the current log path.

ADM1807E  The new DB configuration parameter values for NEWLOGPATH and MIRRORLOGPATH are identical, this is not allowed. Ensure that the values are different for the two parameters.

ADM1810E  The new value of the MIRRORLOGPATH DB configuration parameter is invalid or cannot be used. DB2 will ignore the new value. Confirm the new path value and ensure that it is valid.
ADM1811E DB2 will now switch to the default log path logpath.

ADM1812E The new value of the MIRRORPATH DB configuration parameter newMirrorPath is not usable. DB2 will continue to use the existing mirror path defaultMirrorPath.

ADM1813E The current mirror path currentMirrorPath is invalid.

ADM1814E The current log path currentLogPath is invalid.

ADM1815E An error occurred while DB2 was trying to remove log files from logFilePath.

ADM1817E DB2 was unable to execute the user exit program when archiving log file logFilename from dirPath for database DBName. The error code was returnCode. Verify user exit program by manually running it.

ADM1818E An error was received from the user exit program. DB2 will not call the user exit program for this database for 5 minutes.

ADM1819C DB2 was unable to switch to the new log file size because an error occurred while archiving an old log on the raw device. As a result, the database cannot be accessed.

ADM1820W For USEREXIT to be enabled, you cannot have both DB configuration parameters LOGRETAIN set to CAPTURE and USEREXIT turned on. Therefore, USEREXIT is disabled.

ADM1821E The log path has been reset to the default value.

ADM1822W The active transaction log is being held by dirty pages. Database performance may be impacted.

Explanation: The rate at which the database work load is generating dirty pages has exceeded the rate at which the page-cleaner agents are writing dirty pages to disk. Dirty pages that have not yet been written to disk are holding the transaction log.

User response: 1. Reduce the database work load, if possible.

ADM1823E The active log is full and is held by application handle handle. Terminate this application by COMMIT, ROLLBACK or FORCE APPLICATION.

ADM1824W DB2 cannot delete the log file filename. User must manually delete the log file.

ADM1825W DB2 cannot create the next log file because of a user exit problem.

ADM1826E DB2 cannot continue because the disk used for logging is full.

ADM1827E There is no space left on raw device used for logging. User must make an offline backup of the database.

ADM1828C DB2 will attempt to create the log file again in 5 minutes.

ADM1829E The active log is full and is held by an indoubt transaction.

Explanation: This message is returned when the database manager must release the current active log file and use a different log file, but cannot release the current active log file because an indoubt transaction has a lock on the current active log file.

User response: Resolve the indoubt transaction using the LIST INDOUBT TRANSACTIONS WITH PROMPTING command.

ADM1830E The active log path is set to the default value.

ADM1831E DB2 was unable to execute user exit program when retrieving log file logFilename to dirPath for database DBName. The error code was returnCode. Verify the user exit program by manually running it.
ADM1832E  DB2 was unable to find the user exit program when archiving log file logFilename from dirPath for database DBName. The error code was returnCode.

ADM1833E  The user exit program returned an error when archiving log file logFilename from dirPath for database DBName. The error code was returnCode.

ADM1834E  DB2 was unable to find the user exit program when retrieving log file logFilename to dirPath for database DBName. The error code was returnCode.

ADM1835E  The user exit program returned an error when retrieving log file logFilename to dirPath for database DBName. The error code that was returned by the user exit program to the database manager was: returnCode.

Explanation:  You can automate log file archiving and retrieval by creating a user exit program that the DB2 database manager calls to carry out the archiving or retrieval operation.

When the DB2 database manager invokes your user exit program, the following happens:

• The database manager passes control to the user exit program
• The database manager passes parameters to the user exit program
• On completion, the user exit program passes a return code back to the database manager

The DB2 database manager can only handle specific error codes. However, a user exit program might encounter many different kinds of error conditions, such as operating system errors. A user exit program must map the error conditions it encounters to error codes that the database manager can handle.

This message is returned when a user exit program fails and returns the specified return code to the DB2 database manager.

User response:

1. Refer to the documented list of standard user exit error codes.
2. Refer to any error handling information for your user exit program.

ADM1836W  The table tableName (ID tableID) on tablespaceName (ID tablespaceID) is in DATALINK Reconcile Pending (DRP) state.

ADM1837W  The table tableName (ID tableID) on tablespaceName (ID tablespaceID) is in DATALINK Reconcile Not Possible (DRNP) state.

ADM1838W  An application is waiting for a lock held by an indoubt transaction. This will cause the application to wait indefinitely. Use the LIST INDOUBT TRANSACTIONS command to investigate and resolve the indoubt transactions.

ADM1839W  An error occurred while DB2 was writing log data to log file logFile on path logPath1. The log file is still available on log path logPath2. DB2 will attempt to use both paths for subsequent log files. In the meantime, check that the specified log path in which the error occurred exists and is accessible. Also check that there is space available in the file system.

ADM1840W  The error on log path logPath has been resolved. DB2 will now write log files to this path.

ADM1841W  DB2 was unable to locate log logNumber while attempting to archive it. Your existing recovery strategy may not work if the missing log file is required during recovery. A database backup is required to ensure the recoverability of the database. However, the backup should be taken after the First Active Log file (LOGHEAD) DB configuration parameter is beyond the specified log. You might want to consider deactivating the database now to have the First Active Log file (LOGHEAD) move up, and then take a backup.

User response:

ADM1842W  The database configuration update was successful, but the database could not be made recoverable.

Explanation:  Although the update was successful, the database is not recoverable. Possible reasons for this are:

• At least one table space is in a table space state other than “Normal”
• Member crash recovery is pending on at least one member in this DB2 pureScale instance.
The database will continue to use circular logging until all of the table spaces are in a "Normal" state.

In environments using DB2 pureScale, all members are consistent.

**User response:** If this error is being returned because one or more table spaces are not in "Normal" state, respond to this error by performing the following steps:
1. Determine which table spaces are not in the "Normal" state using the MON_GET_TABLESPACE table function.
2. For each table space that is not in "Normal" state, resolve the issue that corresponds to the state that it is in.

If this error is being caused by a pending member crash recovery, perform member crash recovery on each member that is inconsistent. In most cases, this requires no user response because member crash recovery is initiated automatically. If member crash recovery is not initiated automatically, issue a RESTART DATABASE command.

The database will be recoverable when it is next started or activated. A full database backup will be required at that time.

**User response:** Before your database runs out of unique LSN/LSO/LFS values, perform the following steps:
1. Unload all of the data from the database.
2. Drop and recreate the database.
3. Reload the data.

The LSN/LSO/LFS values will restart at 0 after these steps have been completed.

For additional assistance in responding to this error, contact IBM software support.

**ADM1850C** The database has run out of log record identifiers. Log record identifier type LSN/LSO/LFS-type has reached current-LSN/LSO/LFS-value. The database cannot process any transactions that require additional log records to be written.

**Explanation:** The database manager identifies database log records using various non-decreasing identifiers: LSN, LFS, and LSO.

Your database has used nearly all of the possible values for the LSN/LSO/LFS-type identifier. No more log records can be written.

**User response:** Perform the following steps:
1. Unload all of the data from the database.
2. Drop and recreate the database.
3. Reload the data.

The LSN/LSO/LFS values will restart at 0 after these steps have been completed.

For additional assistance in responding to this error, contact IBM software support.
Chapter 5. ADM2000 - ADM2499

ADM2000E The Event Monitor eventMonitor was deactivated because it encountered an I/O error.

ADM2001W The Event Monitor eventMonitor was deactivated because the MAXFILES and MAXFILESIZE CREATE EVENT MONITOR parameters' limits have been reached.

ADM2002E The Event Monitor eventMonitor was deactivated when the process reading from the target pipe had disconnected.

ADM2003W The Event Monitor eventMonitor was not activated because the limit on the number of active event monitors has already been reached.

ADM2004E The Event Monitor eventMonitor was not activated because there was not enough storage space in the database monitor heap. To remedy this problem, increase the MON_HEAP_SZ DBM configuration parameter.

ADM2005W The database monitor heap is exhausted. Increase the MON_HEAP_SZ DBM configuration parameter.

ADM2006W The database monitor heap is exhausted. Statement elements may be unreliable. Increase the MON_HEAP_SZ DBM configuration parameter.

ADM2007W The event monitor eventMonitor was deactivated due to PCTDEACTIVE limit reached. To reactivate the named event monitor, either increase the table space size or increase the PCTDEACTIVE threshold.

ADM2009C The Event Monitor eventMonitor detected on table tableName (ID tableID) that the column colName is invalid.

ADM2010C The Event Monitor eventMonitor detected on table tableName (ID tableID) that the column colName is not allowed.

ADM2011C The Event Monitor eventMonitor detected on table tableName (ID tableID) that the column colName has an invalid dataType.

ADM2012C For table tableName, (ID tableID) the row size is bigger than the page size.

ADM2013C The Event Monitor eventMonitor detected on table tableName (ID tableID) that the column colName has an invalid dataType.

ADM2014W The Event Monitor eventMonitor detected on table tableName (ID tableID) that the size of the column colName is smaller than the default size of defaultColumnSize. Therefore, contents will be truncated to the user specified size.

ADM2015W The SQLCODE received from the remote target node is SQLCODE.

ADM2016W The table tableName (ID tableID) was not found.

ADM2017C The Event Monitor monitor-name has reached its file capacity. Delete the files in the target directory directory or move them to another directory.

ADM2018W The Event Monitor monitor-name has been deactivated. Event monitor data collection cannot be performed.

Explanation: The event monitor deactivated due to some error in processing that is described in probe information found in the administration notification and db2diag log files.

User response: Look in the administration notification or db2diag log file for probe information that indicates why the event monitor deactivated, correct the error, and then reactivate the event monitor by issuing the following statement:

SET EVENT MONITOR monitor-name STATE 1
Chapter 6. ADM2500 - ADM2999

ADM2500E A serious error has occurred at the database server DRDAApplicationServer which has made continued processing impossible. A dump has been generated. If the remote server is DB2 UDB for OS/390,zOS, check the console log for information about this error. If the remote server is DB2 UDB for iSeries, the job log of the server job, and/or a first failure data capture (FFDC) spooled file is usually necessary to determine the cause of the error. If the remote server is DB2 Database for Linux, UNIX, and Windows, check the remote database server's administration log for information regarding this error.

ADM2501C The amount of data received for a data type at the database server did not match the amount which was expected. A dump has been generated. If the remote server is DB2 UDB for OS/390,zOS, check the console log for information about this error. If the remote server is DB2 UDB for iSeries, the job log of the server job, and/or a first failure data capture (FFDC) spooled file is usually necessary to determine the cause of the error. If the remote server is DB2 Database for Linux, UNIX, and Windows, check the remote database server's administration log for information regarding this error.

ADM2502C The remote database server has encountered an error.

Explanation: The client has detected a problem on the remote server.

User response: If the remote server is DB2 UDB for OS/390,zOS, check the console log for information about this error.

If the remote server is DB2 UDB for iSeries, the job log of the server job, and/or a first failure data capture (FFDC) spooled file is usually necessary to determine the cause of the error.

If the remote server is DB2 Database for Linux, UNIX, and Windows, check the remote database server's administration log for information regarding this error.

If the remote server is IBM Informix Dynamic Server, check the online.log or use onstat (-m) for information about this error.

ADM2503C A datastream parsing error has been detected. A dump has been generated.

ADM2504C The LOB data type is not supported on this database server. APAR fixes are required. If this database server is DB2 for OS/390 v6 and v7, apply the fixes for APARs PQ50016 and PQ50017. If the database server is DB2 for iSeries, any release prior to V5.1 is not supported. For DB2 for iSeries v5.1, the PTF for APAR 9A00531 must be applied. If the database server is DB2 for VM and VSE, contact IBM Support.

ADM2505E While DB2 was attempting to utilize sysplex support, a connection could not be established to the database server at SNA address SNAAddress due to an unknown epic symbolic destination name destName. Check your SNA configuration and validate it with network support personnel or disable sysplex support at the DB2 Connect Server.

User response:

ADM2506W While an application was attempting to issue a deferred SET statement, the server returned a non-zero sqlcode. The sqlcode is SQLCODE. Check your application, and validate the deferred SET statement.


ADM2508I Client Reroute successful. Hostname/IP Address: hostname/IP address and Service name/Port number: service name/port number.

ADM2509I Database connection is successful. Connecting to --> Hostname/IP Address: hostname/IP address and Service name/Port number: service name/port number.
Chapter 7. ADM3000 - ADM3499

ADM3000C The network host entry networkHostEntry at line lineNumber of db2nodes.cfg cannot be resolved.

ADM3001C DB2 cannot create the intermediate socket directory socketDirectory. Check the permissions of this path.

ADM3003C The node node is no longer present in db2nodes.cfg, even though this node had existed when FCM had started up. This may indicate a communication failure.

ADM3006C The retry limit was reached while attempting to establish a connection to node node. DB2 will now initiate node recovery.

ADM3008C The connection with node node has been unexpectedly severed. DB2 will now initiate node recovery.

ADM3019C The link between node node1 and node node2 is broken. Check your switch and cables.

ADM3020C The number of FCM buffers is too small. This will impact communication between DB2 agents and lead to runtime errors. If this message persists, you should adjust the FCM_NUM BUFFERS DBM configuration parameter.

ADM3021W VI is enabled on this node.
The group IDs on the database partitions do not match. In a partitioned database, each partition must have the same set of users and groups defined. If the definitions are not the same, a user may be authorized to perform different actions on different partitions. Consistent user and group definitions across all partitions is recommended.
Chapter 9. ADM4000 - ADM4499

ADM4000W A catalog cache overflow condition has occurred. There is no error but this indicates that the catalog cache has exceeded the configured maximum size. If this condition persists, you may want to adjust the CATALOGCACHE_SZ DB configuration parameter.

ADM4001I A failure has occurred while regenerating the view viewName.

ADM4002W The Event Monitor target table targetTableName (table schema tableSchema) already exists.

ADM4003E The UPGRADE DATABASE command failed to upgrade the DB2 Text Search catalogs or indexes due to an error in stored procedure stored-procedure-name.

Explanation: The database is enabled for DB2 Text Search and has been upgraded successfully. However, an error occurred while upgrading the text search catalogs or indexes.

User response: Call the stored procedures to upgrade the DB2 Text Search catalogs or indexes.
  • If SYSPROC.SYSTS_UPGRADE_INDEX failed to complete successfully, reissue the stored procedure.
  • If SYSPROC.SYSTS_UPGRADE_CATALOG failed to complete successfully, then call these upgrade procedures again in this specific order:
    1. SYSPROC.SYSTS_UPGRADE_CATALOG
    2. SYSPROC.SYSTS_UPGRADE_INDEX

ADM4004W The db2ckupgrade utility found that the database contains the following types of objects, which are not supported by the version of DB2 database to which upgrading is being considered: XML global variables; or compiled SQL functions that use parameters of type XML or that return XML types.

Explanation: You can verify that a given database can successfully be upgraded to a later version of DB2 database using the db2ckupgrade utility.

This message is returned when the db2ckupgrade utility finds database objects which are not supported in the version of DB2 database to which you are upgrading. Specifically, this message is returned when the following database objects are in a database being checked:

  • Global variables of type XML
  • Compiled SQL functions that use parameters of type XML or that return XML types

If you proceed to upgrade the database to the target version of DB2 database, these objects will be invalidated during database upgrade. You will be unable to use these database objects until you upgrade to a version of DB2 database that supports those database objects.

User response: To be able to use the database objects that are invalidated during upgrade, upgrade to a release and fix pack of DB2 database that supports XML global variables and compiled SQL functions that use XML parameters or that return XML types. When you upgrade to a fixpack that supports those database objects, the objects will be automatically revalidated the first time they are referenced after the database has been upgraded.

ADM4005W The upgrade procedure marked the following types of database objects as “invalidated” because those objects are not supported in the upgraded version of DB2 database: XML global variables; and compiled SQL functions that use XML parameters or that return XML types.

Explanation: You can upgrade a database to a later version of DB2 database using the UPGRADE DATABASE command.

This message is returned when a database that contains the following database objects is upgraded to a version of DB2 database that does not support those types of database objects:

  • Global variables of type XML
  • Compiled SQL functions that use parameters of type XML or that return XML types

The upgrade operation marked all of these types of database objects as “invalidated”. You will be unable to use these database objects until you upgrade to a version of DB2 database that supports those database objects.

User response: To be able to use the database objects that were invalidated during upgrade, upgrade to a release and fix pack of DB2 database that supports XML global variables and compiled SQL functions that use XML parameters or that return XML types. When you upgrade to a fixpack that supports those database objects, the objects will be automatically revalidated the...
ADM4014N  The ALTER TABLE ATTACH operation failed because either there are no indexes on the source table, or the indexes on the source table do not match the partitioned index index-name on the target table target-table-name. Reason: reason-code.

Explanation:  See the applicable reason code for more information:

1  The indexes on the source table do not match the unique partitioned index on the target table.

2  The indexes on the source table do not match the partitioned XML pattern values index that was created with the REJECT INVALID VALUES on the target table.

3  The indexes on the source table do not match the partitioned indexes on the target table, and the ALTER TABLE ATTACH statement is defined with the REQUIRE MATCHING INDEXES clause.

User response:  Respond according to the reason code, and then rerun the ALTER TABLE ATTACH operation.

ADM4015I  No index on the source-table source table matches the partitioned index index-name on the target table target-table. ALTER TABLE ATTACH processing continues.

Explanation:  After the ATTACH operation completes successfully, the index partition will be built on the first access to the newly attached table partition. Usually, the first access is from a SET INTEGRITY statement.

To maximize roll-in efficiency, create indexes on the source table that match the partitioned indexes on the target table before attaching the source table to the target table. For more information, see the topic on attaching data partitions in the DB2 Information Center.

User response:  No response is required.

ADM4016I  The index indexName on the source table source-table does not match any partitioned indexes on the target table target-table. ALTER TABLE ATTACH processing continues.

Explanation:  A successful ATTACH operation will drop this index on the source table.

To maximize roll-in efficiency, drop the indexes on the source table that do not match the indexes on the target table before attaching the source table to the target table. For more information, see the topic on attaching data partitions in the DB2 Information Center.

User response:  No response is required.

ADM4100W  The db2ckupgrade or UPGRADE DATABASE command identified external routines or user-defined wrappers that could have potential incompatibility with the multi-threaded database manager. See the file generated-file that contains the list of routines and wrappers identified, or a set of statements to restore the routine or wrapper definitions altered by the UPGRADE DATABASE command.

Explanation:  Beginning in DB2 Version 9.5, the database manager is now multi-threaded as opposed to multi-processed on Linux and UNIX operating systems. The execution of NOT FENCED and NOT THREADSAFE external routines or user-defined wrappers, which are NOT FENCED in the multi-threaded database manager, could lead to incorrect results, database corruption, or abnormal termination of the database manager. As a result, all NOT FENCED routines and all NOT FENCED user-defined wrappers must be THREADSAFE.

During database upgrade, all external NOT FENCED routines that have no dependency on the DB2 engine library are altered to FENCED and NOT THREADSAFE. Also, the DB2_FENCED option is set to 'Y' for all user-defined wrappers. The UPGRADE DATABASE command generates a script generated-file that contains the statements to restore the routine or wrapper definitions.

When running db2ckupgrade, external NOT FENCED routines that have no dependency on the DB2 engine library are identified. These routines will be altered to
FENCED and NOT THREADSAFE during database upgrade. The file generated-file is generated with a list of all the identified external NOT FENCED routines and user-defined wrappers with the DB2_FENCED option is set to 'N'.

User response: When upgrading the database, verify that all the affected routines and user-defined wrappers can safely be run as NOT FENCED and THREADSAFE. Once verified, they can be altered back to NOT FENCED and THREADSAFE, by running the file generated-file to alter all of the routines and user-defined wrappers to NOT FENCED. Modify this file to contain only the statements that should be executed and run the CLP script after the database has been upgraded.

After running db2ckupgrade and before upgrading your database, alter the identified routines, listed in the generated file generated-file, to FENCED and NOT THREADSAFE and set the DB2_FENCED option to 'Y' for user-defined wrappers.

ADM4102W The database contains one or more identifiers called NULL. To avoid conflict with the NULL keyword, you should qualify or delimit with double quotes any identifiers called NULL in SQL statements.

Explanation: An untyped NULL specification can occur anywhere in an expression. If an identifier called NULL is used in an SQL statement without being fully qualified or delimited, the identifier specification might resolve to the NULL keyword instead of the identifier reference. This would result in a change in behavior from previous releases.

User response: Determine if you have identifiers called NULL in the database by issuing the following statements:

- SELECT TABSCHEMA, TABNAME, COLNAME FROM SYSCAT.COLUMNS WHERE COLNAME = 'NULL';
- SELECT ROUTINESCHEMA, ROUTINENAME, PARMNAME FROM SYSCAT.ROUTINEPARMS WHERE PARMNAME = 'NULL';
- For Version 9.5 databases or later, SELECT VARSHEMA, VARNAME FROM SYSCAT.VARIABLES WHERE VARNAME = 'NULL';

To avoid conflict with the NULL keyword, qualify or delimit with double quotes the identifiers called NULL in SQL statements.

ADM4104E One or more databases are enabled for XML Extender. You must remove the XML Extender functionality from the instance and databases before upgrading.

Explanation: Starting with DB2 Version 9.7, XML Extender is discontinued. Possible reasons for this error are:

- The connection attribute attribute-name contains asterisks (*) in the workload workload-name. A single asterisk (*) will be replaced with two asterisks (**) during database upgrade. Reason code = reason-code.

Explanation: Starting with DB2 Version 9.7, you can use a single asterisk (*) as a wildcard character and two asterisks (**) to represent one literal asterisk (*) in some workload attributes.

The db2ckupguide command identifies asterisks (*) in the connection attribute and the UPGRADE DATABASE command replaces the single asterisk (*) with two asterisks (**) if the type of connection attribute is one of the following values: 1 (APPLNAME) 6 (CURRENT CLIENT_USERID) 7 (CURRENT CLIENT_APPLNAME) 8 (CURRENT CLIENT_WRKSTNNAME) 9 (CURRENT CLIENT_ACCTNG)

Reason codes are as follows:

1. The connection attribute was truncated because it reached the maximum length when a single asterisk (*) is replaced with two asterisks (**) during database upgrade.

2. The connection attribute was not truncated when a single asterisk (*) is replaced with two asterisks (**) during database upgrade.

User response: Replace asterisks (*) in the connection attribute with another character if possible.
The instance that you specified for upgrade has XML Extender functionality enabled, and the implicit call to db2ckupgrade fails because one or more databases are enabled for XML Extender.

The database that you are checking for upgrade is enabled for XML Extender.

User response: Remove the XML Extender functionality from the instance and disable databases for XML Extender. Then re-issue the db2iupgrade or db2ckupgrade command.

Refer to the DB2 Information Center for details on the steps to upgrade XML Extender, including how to disable XML Extender in databases.

ADM4105W  The Database is enabled for DB2 WebSphere MQ functions. The set of functions defined for XML Extender will be dropped during database upgrade.

Explanation: Starting with DB2 Version 9.7, XML Extender is discontinued. The set of DB2 WebSphere MQ functions that are defined for XML Extender will be dropped during database upgrade. These functions declare parameters using XML Extender user-defined data types.

User response: After the database upgrade, if you want to use DB2 WebSphere MQ functions with xml data type parameters, run the enable_MQFunctions command with the -force and -xml parameters to create new MQ functions for XML data type and re-create the existing MQ functions. Refer to the DB2 Information Center for details on how to run the enable_MQFunctions command.

ADM4106W  The upgraded database was enabled for XML Extender. XML Extender functionality was not disabled during database upgrade. However, this functionality will fail to run.

Explanation: Starting with DB2 Version 9.7, XML Extender has been discontinued. The database that you restored from a backup image created in a previous release is enabled for XML Extender.

The database was upgraded successfully. However, the XML Extender functionality such as routines will fail to run.

User response: Restore the database to a DB2 copy running a DB2 database product version that supports XML Extender, then follow the steps to upgrade from XML Extender.

Refer to the DB2 Information Center for details on the steps to upgrade from XML Extender.

ADM4200N  The data type of the column could not be changed because of the data in the row with row identifier rowid.

Explanation: You can change the data type of a table column by using the ALTER TABLE statement with the ALTER COLUMN clause and the SET DATA TYPE clause.

This message is returned when an attempt to change the data type of a column fails because of an incompatibility between data in one of the rows of the table and the data type to which the column is being changed.

User response:
1. Review the db2diag logs for more detailed information about why the data in the named row prevented the data type of the column from being changed.
2. Resolve the incompatibility by doing one of the following:
   - Modify the data in the row so that the data type of the column can be changed.
   - Change the data type of the column to one that is compatible with the existing data.

ADM4201N  The data type of the column could not be changed because of the default values for the column named column-name in the table named table-name.

Explanation: You can change the data type of a table column by using the ALTER TABLE statement with the ALTER COLUMN clause and the SET DATA TYPE clause.

This message is returned when an attempt to change the data type of a column fails because of an incompatibility with the default values for the column being altered.

User response:
1. Review the db2diag logs for more detailed information about why the default values for the column prevented the data type of the column from being changed.
2. Resolve the incompatibility by doing one of the following:
   - Modify or drop the default values for the column so that the data type of the column can be changed.
   - Change the data type of the column to one that is compatible with the existing data.
Chapter 10. ADM4500 - ADM4999

ADM4500W A package cache overflow condition has occurred. There is no error but this indicates that the package cache has exceeded the configured maximum size. If this condition persists, you should perform additional monitoring to determine if you need to change the PCKCACHESZ DB configuration parameter. You could also set it to AUTOMATIC.
Chapter 11. ADM5500 - ADM5999

ADM5500W The database manager is performing lock escalation. The affected application is named appl_name, and is associated with the workload name workload_name and application ID appl_id at member member_num. The total number of locks currently held is locksHeld, and the target number of locks to hold is targetNumber. Reason code: reason_code

Explanation: The reason code indicates why lock escalation is happening:

1. The portion of the lock list that is being held by an application has exceeded the value specified for the maxlocks database configuration parameter.

2. The lock list is full.

3. The global lock list is full.

User response: To reduce the likelihood of lock escalation, take one or more of the following actions:
- Perform commit operations more frequently.
- Configure the lock list size to automatically adjust by setting the locklist configuration parameter to AUTOMATIC.
- Configure the global lock list size to automatically adjust by setting the cf_lock_size configuration parameter to AUTOMATIC.
- If you are making several updates, consider locking the entire table using the LOCK TABLE statement. Locking the table uses only one lock, as opposed to the several locks that might be required when updating multiple rows.
  - You can also specify that only table locks be used for a table using the LOCKSIZE option of the ALTER TABLE statement.
  - If you use the repeatable read isolation level, the optimizer might elect to acquire a single table-level lock, if it appears that lock escalation is likely.
- Use the cursor stability isolation level whenever possible to decrease the number of shared locks held. If application integrity requirements are not compromised, use the uncommitted read isolation level instead of cursor stability to further decrease the amount of locking.

ADM5501I DB2 is performing lock escalation. The affected application is named appl_name, and is associated with the workload name workload_name and application ID appl_id at member member_num. The total number of locks currently held is locksHeld, and the target number of locks to hold is targetNumber. The current statement being executed is currentStatement. Reason code: reason_code

Explanation: The possible reason codes that explain why lock escalation is happening are as follows:

1. The portion of lock list held by an application has exceeded the value specified for the maxlocks database configuration parameter.

2. The lock list is full.

3. The global lock list is full.

User response: To reduce the likelihood of lock escalation, you can take one or more of the following actions:
- Perform commit operations more frequently.
- Set the locklist configuration parameter to AUTOMATIC to have the lock list size adjusted automatically.
- Set the cf_lock_sz configuration parameter to AUTOMATIC to have the global lock list size adjusted automatically.
- If you are making several updates, consider locking the entire table using the LOCK TABLE statement. Locking the table uses only one lock, as opposed to the several locks that might be required when updating multiple rows.
  - You can also specify that only table locks be used for a table using the LOCKSIZE option of the ALTER TABLE statement.
  - If you use the Repeatable Read (RR) isolation level, the optimizer might elect to acquire a single table-level lock, if it appears that lock escalation is likely.
- Use the Cursor Stability isolation level whenever possible to decrease the number of share locks held. If application integrity requirements are not compromised, use the Uncommitted Read isolation level instead of Cursor Stability to further decrease the amount of locking.
ADM5502W The escalation of numLocks locks on table tableName to lock intent lockIntent was successful.

Explanation: The token numLocks lists the total number of locks currently held by all applications that are accessing the table.

User response: No user response is required.

ADM5503E The escalation of numLocks locks on table tableName to lock intent lockIntent has failed. The SQLCODE is SQLCODE.

ADM5504W The escalation of numLocks locks on DATAPARTITIONID datapartitionid of table tableName to lock intent lockIntent was successful.

ADM5505E The escalation of numLocks locks on DATAPARTITIONID datapartitionid of table tableName to lock intent lockIntent has failed. The SQLCODE is SQLCODE.

ADM5506W The current unit of work was involved in an unresolved contention for use of an object. The type of the event is: event-type. The identifier of the lock on which this event happened is: lock-ID. The timestamp of the event is: timestamp. The identifier of the member at which the event happened is: event-source-member-id. The identifier of the event is: event-ID. The identifier of the member at which the application is holding the lock is: app-member-id.

Explanation: The current unit of work was involved in an unresolved contention for use of an object. Lock escalation is the process of replacing row locks with table locks, reducing the number of locks in the list.

User response: To investigate this event further, create an event monitor using the CREATE EVENT MONITOR FOR LOCKING statement which should help to narrow down the source of the problem.

To help avoid a deadlock or lock timeout, issue frequent COMMIT operations, if possible, for a long-running application, or for an application likely to encounter a deadlock.

Deadlocks are often normal or expected while processing certain combinations of SQL statements. It is recommended that you design applications to avoid deadlocks to the extent possible.

If a deadlock state was reached because of a queuing threshold such as the CONCURRENTDBCOORDACTIVITIES threshold, increase the value of the queuing threshold.

For more detailed information about preventing deadlocks or lock timeouts, search the DB2 Information Center using phrases such as "deadlock prevention", and terms such as "deadlocks" and "lock timeouts".

To prevent lock escalations, adjust the locklist and maxlocks configuration parameters. For assistance, see the DB2 Information Center.

ADM5507W The current unit of work was involved in an unresolved contention for use of an object. The type of the event is: event-type. The identifier of the lock on which this event happened is: lock-ID. The timestamp of the event is: timestamp. The identifier of the member at which the event happened is: event-source-member-id. The identifier of the event is: event-ID. The identifier of the member at which the application is holding the lock is: app-member-id.

Explanation: The current unit of work was involved in an unresolved contention for use of an object. Lock escalation is the process of replacing row locks with table locks, reducing the number of locks in the list.

User response: To investigate this event further, create an event monitor using the CREATE EVENT MONITOR FOR LOCKING statement which should help to narrow down the source of the problem.

To help avoid a deadlock or lock timeout, issue frequent COMMIT operations, if possible, for a long-running application, or for an application likely to encounter a deadlock.

Deadlocks are often normal or expected while processing certain combinations of SQL statements. It is recommended that you design applications to avoid deadlocks to the extent possible.

If a deadlock state was reached because of a queuing threshold such as the CONCURRENTDBCOORDACTIVITIES threshold, increase the value of the queuing threshold.

For more detailed information about preventing deadlocks or lock timeouts, search the DB2 Information Center using phrases such as "deadlock prevention", and terms such as "deadlocks" and "lock timeouts".

To prevent lock escalations, adjust the locklist and maxlocks configuration parameters. For assistance, see the DB2 Information Center.
ADM5508I  One or more partitioned indexes on data partition DATAPARTITIONID of the table named tableName are marked invalid and require rebuilding.

Explanation: The DB2 data server will automatically rebuild the invalid index partitions on this data partition. A super exclusive Z lock will be held on the data partition from the time that the index rebuild begins until the end of unit of work in which the rebuild occurs.

User response: No response is required.

ADM5509I  Rebuilding count index partitions on data partition DATAPARTITIONID of the table tableName.

Explanation: The data server is rebuilding index partitions for the table on the specified data partition.

User response: No response is required.

ADM5510E  The table space tableSpace (ID tableSpace) is full. There is no more room in the internal object table of this table space.

ADM5511E  The object object with id object-id in tablespace tspace-id for table tableName has reached the maximum possible size.

ADM5512N  Rebuild of index partitions on partition DATAPARTITIONID of table tableName failed with SQLCODE of SQLCODE.

Explanation: The rebuild of the index partitions failed for the specified data partition.

User response: See the DB2 Information Center for information about the given SQLCODE.

ADM5513I  Index rebuild on the data partition DATAPARTITIONID of table tableName completed successfully.

Explanation: Although the data server successfully rebuilt the index for the data partition, other partitioned indexes on the data partition might still require rebuilding. This index rebuild will occur during the current unit of work.

User response: No response is required.

ADM5514I  Rebuilding index partition with IID indexIID in object indexObjectID and table space indexTablespaceID on data partition DATAPARTITIONID of table tableName.

Explanation: The data server is rebuilding the specified index partition.

User response: No response is required.

ADM5515I  Index partitions on data partition DATAPARTITIONID of table tableName are successfully rebuilt.

Explanation: The data server has rebuilt the index partitions for the table on the specified data partition.

User response: No response is required.

ADM5520E  This database version is not supported for database upgrade.

Explanation: The database version that you are trying to upgrade is unsupported in the DB2 copy from which you try to upgrade the database.

User response: Determine what releases are supported for database upgrade in the DB2 copy from which you want to upgrade the database. Upgrade the database to one of those releases. Then re-try upgrading the database to the DB2 copy.

Refer to the DB2 Information Center for details on what versions are supported for database upgrade.

ADM5521C  The table tableName is missing or it was truncated and was not migrated. Database migration will continue, but this table will be inaccessible.

ADM5530W  The COMMIT processing of table tableName that used NOT LOGGED INITIALLY has been initiated. It is recommended that you take a backup of this table's table space(s).

ADM5540W  Rebuilding count indexes on table tableName.

Explanation: The rebuild is either for nonpartitioned indexes on a partitioned table, or for indexes on a nonpartitioned table.

User response: No response is required.
ADM5542W  Indexes on table \textit{tableName} are successfully rebuilt.

Explanation: The rebuild was either for nonpartitioned indexes on a partitioned table, or for indexes on a nonpartitioned table.

User response: No response is required.

ADM5543E  Rebuild of indexes on table \textit{tablename} failed with SQLCODE of SQLCODE.

Explanation: The rebuild was either for nonpartitioned indexes on a partitioned table, or for indexes on a nonpartitioned table.

User response: See the referenced SQLCODE for more information.

ADM5550C  The table space \textit{tablespaceName} (ID \textit{tablespaceID}) is being removed from the rollforward set. The SQLCODE is SQLCODE.

ADM5560C  DB2 is unable to redo the reorganization of a table unless both the data table space \textit{dataTablespaceName} (ID \textit{dataTablespaceID}) and the long table space \textit{LongTablespaceName} (ID \textit{dataTablespaceID}) are being rolled forward together. Ensure that both of the table spaces are being rolled forward together, or restore a backup image taken after the reorganization to eliminate the need for reorganization to be redone.

ADM5561C  DB2 is unable to redo the reorganization of a table unless both the data table space \textit{dataTablespaceName} (ID \textit{dataTablespaceID}) and the long table space \textit{longTablespaceName} (ID \textit{dataTablespaceID}) are at the same point in time. Ensure that a backup of both table spaces are either from before the table reorganization (so that it can be redone) or from after the table reorganization (so that it does not have to be redone).

ADM5562C  DB2 is unable to undo the in-place reorganization of a table unless both the data table space \textit{dataTablespaceName} (ID \textit{dataTablespaceID}) and the index table space \textit{indexTablespaceName} (ID \textit{dataTablespaceID}) are being rolled forward together. Ensure that both table spaces are being rolled forward together.

ADM5570W  Access was attempted on an unavailable object with id \textit{object-id} in tablespace \textit{tbspace-id} for table \textit{tableName}. If the object is a table it will have to be dropped. If the object is a partition it will have to be detached. If the object is a non-partitioned index the index will have to be dropped.

ADM5571W  The object object with ID \textit{object-id} in table space \textit{tbspace-id} for table \textit{tableName} is being marked as unavailable.

Explanation: The object cannot be accessed.

User response: If the object is a table or a nonpartitioned index, drop it. If the object is a data partition of a partitioned table, detach it.

ADM5572I  One or more indexes on table \textit{tableName} are marked invalid and require rebuilding.

Explanation: The DB2 data server will automatically rebuild the invalid indexes on this table. The rebuild is either for nonpartitioned indexes on a partitioned table or for indexes on a nonpartitioned table.

A super exclusive Z lock will be held on the table for the duration of the index rebuild and the unit of work in which the rebuild occurs.

User response: No response is required.

ADM5580W  The table space with ID \textit{tablespaceID} either does not exist or is not in the set of table spaces being recovered. Recovery will continue, but filtering of this table space or tables/objects in this table space will be ignored.

ADM5581W  DB2 has successfully filtered table space with ID \textit{tablespaceID}, object ID \textit{object-ID}.

ADM5582C  Internal error \textit{error} occurred while attempting to filter table space ID \textit{tablespaceID}, object ID \textit{objectID}.

ADM5583W  The total allotted time of 16.7 hours per Data Links Manager has been exceeded.

ADM5590E  The specified INPLACE table reorganization action on table \textit{tableName} is not allowed on this node because of SQLCODE -2219 reason code \textit{reasonCode}.
ADM5591W  A new compression dictionary could not be built for the object of type object-type and object ID objectID because insufficient data was found. The object is in the table named table-name, which is in the table space: table-space-id.

Explanation: When Automatic Dictionary Creation (ADC) occurs, a compression dictionary is created for a table when the table is enabled for data row compression. A dictionary is created to compress data in the rows of the database table. For a table with columns of type XML, an additional, separate dictionary is created to compress the data in the XML storage object of the table.

A compression dictionary for the table table-name was not created. If the object-type is DATA, a dictionary could not be created for rows in the table table-name. If the object-type is XML, a dictionary could not be created for the XML storage object of the table.

If a dictionary exists and a new compression dictionary cannot be built, the following occurs:
\* When not using LOAD, the existing dictionary is retained and used.
\* When using LOAD, the existing dictionary is not retained.

User response: No user action required.

ADM5592I  A compression dictionary for the object-type object with ID objectID in tablespace table-spaceID for table table-name was built by dictionary-creator processing.

Explanation: When Automatic Dictionary Creation (ADC) occurs, a compression dictionary is created for a table when the table is enabled for data row compression. A dictionary is created to compress data in the rows of the database table. For a table with columns of type XML, an additional, separate dictionary is created to compress the data in the XML storage object of the table.

If the object-type is DATA, a compression dictionary was created for the table object for the table table-name. If the object-type is XML, a compression dictionary was created for the XML storage object of the table.

User response: No user action required.

ADM5593I  Automatic Dictionary Creation (ADC) processing for the object-type object with ID objectID in tablespace table-spaceID for table table-name has been temporarily disabled. ADC processing will be enabled again once the instance is restarted.

Explanation: When Automatic Dictionary Creation (ADC) occurs, a compression dictionary is created for a table when the table is enabled for data row compression. A dictionary is created to compress data in the rows of the database table. For a table with columns of type XML, an additional, separate dictionary is created to compress the data in the XML storage object of the table.

ADC processing has been disabled for the object objectID. If the object-type is DATA, ADC processing is disabled for the table rows for the table table-name. If the object-type is XML, ADC processing is disabled for the XML storage object of the table.

Even if the table contains sufficient table row data to create a dictionary, a dictionary might not be created if the data is fragmented.

User response: To defragment table row data, use the REORG TABLE command to reorganize the table table-name. If object-type is XML use the LONGLOBDATA option to reorganize the XML storage object of the table.

To enable ADC processing, restart the instance.

ADM5594I  Automatic Dictionary Creation (ADC) processing for object-type objects has been temporarily disabled for the database.

Explanation: When Automatic Dictionary Creation (ADC) occurs, a compression dictionary is created for a table when the table is enabled for data row compression. A dictionary is created to compress data in the rows of the database table. For a table with columns of type XML, an additional, separate dictionary is created to compress the data in the XML storage object of the table.

This message is returned when ADC processing is disabled for the database. If the object-type is DATA, ADC processing is disabled for the data in tables. If the object-type is XML, ADC processing is disabled for data in the XML storage objects of tables.

User response: To enable ADC processing, restart the database.

ADM5595E  An index data inconsistency is detected on table schema-name, table-name. Please run "INSPECT CHECK TABLE NAME table-name SCHEMA schema-name INDEXDATA RESULTS KEEP table-name_resfile.out" on the node that failed, and then contact DB2 support team to report the problem.
ADM5600I

ADM5600I  Scan sharing is temporarily limited due to memory constraints.

User response: No response is required.
Chapter 12. ADM6000 - ADM6499

ADM6000E  DB2 encountered a read error while reading page page-number from table space tbspace-id for object object-id (located at offset offset of container container-path). DB2 was able to bypass the error by re-reading the page, but this may indicate the presence of a serious problem that could result in a future outage. You may wish to begin an investigation of the hardware (such as disk, controllers, network) and/or the filesystem involved in accessing the container.

ADM6001I  A container was renamed based on the rules defined in the path rename configuration file configFile. The container oldName has been renamed to newName.

ADM6002E  A container path of an invalid length was specified. The path specified was containerName. Refer to the documentation for SQLCODE -297.

ADM6003I  A container was not renamed because it was not affected by the rules defined in the path rename configuration file configFile. Its name remains as contname.

ADM6004N  The SET WRITE SUSPEND command failed for the database. Database name: database-name.

Explanation: An error occurred during an attempt to suspend the write operations for the database.

User response:
1. Investigate the cause of the failure by reviewing the DB2 diagnostic log files.
2. Correct the problem.
3. Reissue the SET WRITE RESUME command again.

ADM6005N  The SET WRITE RESUME command failed for the database. Database name: database-name.

Explanation: An error occurred during an attempt to resume the write operations for the database.

User response:
1. Investigate the cause of the failure by reviewing the DB2 diagnostic log files.

ADM6006E  DB2 encountered an error while reading page page-number from table space tbspace-id for object object-id (located at offset offset of container container-path). DB2 was not able to complete the operation, but the database remains accessible. This may indicate the presence of a serious problem that could result in a future outage.

Explanation: DB2 was not able to complete the operation, but the database remains accessible. This may indicate the presence of a serious problem that could result in a future outage.

User response: You can begin an investigation of the hardware (such as disk, controllers, network) and/or the filesystem involved in accessing the container.

If it is suspected that the DB2 data itself is in error, contact IBM Software Support and they will guide you through the proper corrective actions.

ADM6007C  DB2 detected an error while processing page page-number from table space tbspace-id for object object-id of object type object-type.

Explanation: DB2 was not able to complete the operation, but the database remains accessible. This may indicate the presence of a serious problem that could result in a future outage.

User response: Contact IBM Software Support and they will guide you through the proper corrective actions.

ADM6008I  Extents within table space tablespace_name (ID tablespace_id) have been moved. Reason code = reason-code.

Explanation: Here are the reasons why the extent movement terminated:
1. Another utility attempted to work with the table space and interrupted the extent movement.
2. A pending delete state is preventing the movement of the high water mark.
3. There is no remaining free space in the table space to move the remaining extents.
4. The extent movement has completed.

User response: You should consider the following actions based on the reason code:
1. Re-run the extent movement when another utility cannot interrupt the move operation.
2. Correct the pending delete state before re-running the extent movement operation.
3. No action is required.
4. No action is required.

ADM6009W  The database manager detected that the amount of restart light memory (rstrt_light_mem) is too small for optimal recovery performance.

Explanation: The database manager automatically reserves some memory on each member host to be used for restart light operation. This reserved memory is used to accommodate failed members that need to be restarted in restart light mode, on a host other than their home host. The rstrt_light_mem database manager configuration parameter specifies the maximum amount of memory that is allocated and reserved on a host for restart light recovery purposes.

This message is returned when the amount of memory reserved for restart light purposes on a host is not large enough for optimal recovery performance.

User response: Optional: To improve recovery performance, increase the value of the following database manager configuration parameters:

• RSTRT_LIGHT_MEM
• INSTANCE_MEMORY

ADM6010I  Rebalance for table space tsname (ID tsid) has been suspended.

Explanation: The rebalance operation for the table space has been manually suspended using the ALTER TABLESPACE REBALANCE SUSPEND statement.

User response: Manually resume the table space rebalance operation by running the following statement:

ALTER TABLESPACE tablespace-name REBALANCE RESUME

ADM6011E  Write operations could not be suspended or resumed on this DB2 member because the database is in the process of shutting down or stopped, or the database is quiesced.

Explanation: You can suspend and resume write operations for a database using the SET WRITE command or the db2SetWriteForDB API. In a DB2 pureScale environment, when you execute the SET WRITE command or call the db2SetWriteForDB API on any member, write operations are suspended or resumed on all members in the DB2 cluster.

Write operations can be successfully suspend or resumed only when the database is either active or stopped. This message is returned when an attempt is made to suspend or resume write operations for a database that is neither active nor stopped. For example, this message can be returned when the SET WRITE command is executed in the following kinds of scenarios:

• The STOP DATABASE command has been executed for the database but the database has not completely stopped.
• The QUIESCE DATABASE command has been executed.
• The database encountered an error and is entering crash recovery.

This message is returned in DB2 pureScale environments only. Specifically, this message is printed to the administration notification log for the member that detected the problem with the status of the database.

User response: To resolve the problem that is preventing the SET WRITE command from succeeding on the member that is reporting this error, wait until the database makes the transition into being either active or stopped.

After resolving the problem on this member, review the administration notification log on other members in the DB2 cluster.

ADM6012W  The total combined maximum number of authorization IDs that can be specified in both of the DB2_HI_PRI_PREFETCH_AUTHID and DB2_LO_PRI_PREFETCH_AUTHID registry variables maxAuthIds has been surpassed. Ensure that no more than this specified number of authorization IDs is specified by removing authorization IDs from one or both of the registry variables. The changes made will not take effect until the instance is restarted.

ADM6013W  Authorization ID authld was specified multiple times in either one or both of the DB2_HI_PRI_PREFETCH_AUTHID and DB2_LO_PRI_PREFETCH_AUTHID registry variables. As a result, the highest priority was chosen for this authorization ID. If this behaviour is undesirable, it is necessary to set the registry variables accordingly ensuring that there are no duplicate authorization IDs among them. The changes made will not take effect until the instance is restarted.

ADM6014E  Write operations could not be suspended or resumed on this DB2 member because one or more table spaces are not in NORMAL state.

Explanation: You can suspend and resume write
operations for a database using the SET WRITE command or the db2SetWriteForDB API. In a DB2 pureScale environment, when you execute the SET WRITE command or call the db2SetWriteForDB API on any member, write operations are suspended or resumed on all members in the DB2 cluster.

Write operations can be successfully suspend or resumed only when all table spaces in the database are in the NORMAL state.

This message is returned in DB2 pureScale environments only. Specifically, this message is printed to the administration notification log for the member that detected the problem with the state of the table spaces.

**User response:** To resolve the problem that is preventing the SET WRITE command from succeeding on the DB2 member that is reporting this error, perform the following steps:

1. Identify which table spaces are not in NORMAL state using the MON_GET_TABLESPACE table function. The TBSP_STATE column lists the table space state.
2. Change any table spaces in the database that are not in a NORMAL state into a NORMAL state by performing the required troubleshooting steps.

After resolving the problem on this member, review the administration notification log on other members in the DB2 cluster.

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**ADM6015E** Write operations could not be suspended on this DB2 member because an internal error was encountered while database logging was being suspended.

**Explanation:** You can suspend and resume write operations for a database using the SET WRITE command or the db2SetWriteForDB API. In a DB2 pureScale environment, when you execute the SET WRITE command or call the db2SetWriteForDB API on any member, write operations are suspended or resumed on all members in the DB2 cluster.

This message is returned in DB2 pureScale environments only. Specifically, this message is printed to the administration notification log for the member that detected the internal problem processing the suspend operation.

**User response:** To resolve the problem that is preventing the SET WRITE command from succeeding on the DB2 member that is reporting this error, perform the following troubleshooting steps:

1. Collect additional diagnostic information from the DB2 diagnostic (db2diag) log files on this member.
2. Identify and resolve the root cause of the failure of the suspend operation using the additional diagnostic information from the db2diag log files.

After resolving the problem on this member, review the administration notification log on other members in the DB2 cluster.

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**ADM6017E** The following table space is full. Table space name: table-space-name. Table space identifier: table-space-ID. Container path: container-path. Container identifier: container-ID.

**Explanation:** This message can be returned for many different reasons, including the following reasons:

- The underlying file system is full.
- The maximum allowed space usage for the file system has been reached.
- User limits on maximum file size have been reached.
- User limits on maximum number of open files have been reached.

**User response:**

1. Review information in diagnostic logs to determine which limits have been reached.
2. Depending on the limits that were reached, free the necessary resources. For example, free memory, allocate more memory, or close open files.
ADM6018I  Unmounting filesystem at directory-path.

ADM6019E  All pages in buffer pool bpname (ID bpid) are in use. Refer to the documentation for SQLCODE -1218.

ADM6020I  Leaving mounted filesystem used for contPath.

ADM6021I  Multi-page file allocation is not currently enabled. Disabling it has no effect.

ADM6022W  Asynchronous drop of a temporary table failed. The resources associated with this table will not be freed until next database startup. You are advised to restart the database for this reason. You are also advised to contact IBM support to determine the reason for the failure.

ADM6023I  The table space tablespaceName (ID tablespaceID) is in state tablespaceState. The table space cannot be accessed. Refer to the documentation for SQLCODE -290.

User response:

ADM6024C  The database cannot be restarted. Database name: database-name.

Explanation:  The database cannot be restarted because write operations for the database are suspended or are being suspended.

User response:  To restart the database if the database write operations are being suspended, specify the RESTART DATABASE command with the WRITE RESUME parameter.

To restart the database if the database write operations are being suspended, wait until the SET WRITE SUSPEND operation that is being processed completes, then reissue the RESTART DATABASE command with the WRITE RESUME parameter.

ADM6025I  The table space tsname (ID tsid) is in state state. operation is not possible. Refer to the documentation for SQLCODE -290.

User response:

ADM6026E  Write operations could not be suspended or resumed on this DB2 member because an internal error occurred during the suspend or resume process.

Explanation:  You can suspend and resume write operations for a database using the SET WRITE command or the db2SetWriteForDB API. In a DB2 pureScale environment, when you execute the SET WRITE command or call the db2SetWriteForDB API on any member, write operations are suspended or resumed on all members in the DB2 cluster.

This message is returned in DB2 pureScale environments only. Specifically, this message is printed to the administration notification log for the member that detected the internal problem processing the suspend or resume operation.

User response:  To resolve the problem that is preventing the SET WRITE command from succeeding on the DB2 member that is reporting this error, perform the following troubleshooting steps:

1. Collect additional diagnostic information from the DB2 diagnostic (db2diag) log files on this member.
2. Identify and resolve the root cause of the failure of the suspend or resume operation using the additional diagnostic information from the db2diag log files.

After resolving the problem on this member, review the administration notification log on other members in the DB2 cluster.

ADM6027E  Error writing page page-number from table space tbspace-id for object object-id (writing to offset offset of container container-path). The operation did not complete.

Explanation:  DB2 was not able to complete the operation, but the database remains accessible. This might indicate a serious problem that could result in a future outage.

User response:  Investigate the hardware such as disk, controllers, and network, and the file system involved in accessing the container. If the problem is being caused by errors in the DB2 data, contact DB2 Support for guidance through the proper corrective actions.

ADM6028W  The registry variable setting regvarstr was ignored because of an out of memory condition that did not permit the processing of the registry variable setting.
ADM6029W The registry variable setting (regvarstr) was ignored because the specified setting is invalid.

ADM6031W EXTENDED STORAGE was configured for use with buffer pool bpname (ID bpid) but this configuration will be ignored because AWE is enabled for the database. EXTENDED STORAGE should be disabled and buffer pools should be configured not to use it.

ADM6034W EXTENDED STORAGE was configured for use with buffer pool bpname (ID bpid) but this configuration will be ignored because the DB2_OVERRIDE_BPF registry variable is set. This registry variable is only meant to be used under the direction of IBM support.

ADM6035W Scattered read could not be used because the registry variable DB2NTNOCACHE was not set. Set the DB2NTNOCACHE registry variable to enable scattered read.

ADM6036W EXTENDED STORAGE is being used for multiple page sizes. Performance may not be optimal. Refer to the DB2 documentation for more information regarding the use of EXTENDED STORAGE.

ADM6037W Container path was created to be userBytes KB in size on a device that is userBytes KB in size. Extra storage will be wasted. The container can be extended to use the wasted space by using ALTER TABLESPACE.

ADM6038E Unable to perform an operation on container path because it does not exist in table space tsname (ID tsid). Refer to the documentation for SQLCODE -298.

ADM6039E Invalid stripe set sset specified in ALTER TABLESPACE for table space tsname (ID tsid). Maximum stripe set in table space is maxsset.

ADM6040E Invalid container size specified for container contpath. The number of pages specified for use is too large. Refer to the documentation for SQLCODE -1422.

ADM6041E A table space operation failed because the resulting size of the table space would have exceeded the defined maximum size for the table space. Table space name: table-space-name. Table space identifier: table-space-id. Defined maximum size: max-size.

Explanation: Rows of table data are organized into blocks called pages. For database-managed spaces (DMS), temporary DMS and nontemporary automatic storage table spaces, the page size you choose for your database using the PAGESIZE database configuration parameter determines the upper limit for the table space size.

This message is returned when a table space operation on a REGULAR or USER TEMPORARY DMS table space causes the size of the table space to increase beyond the defined maximum allowed size, as determined by the PAGESIZE database configuration parameter.

User response: Respond to this error in one of the following ways:

- Increase the maximum allowable size of the table space using the ALTER TABLESPACE statement with the MAXSIZE clause or the EXTEND clause, and then execute the table space operation again.
- Modify the table space operation so that it does not increase the size of the table space beyond the maximum allowed size, as determined by the PAGESIZE database configuration parameter, and then execute the table space operation again.

ADM6042E An operation for table space tsname (ID tsid) was not successful because the size of the current table space is too big. The size of a REGULAR table space is limited to 0x0100 0000 (16777216) pages while the size of LARGE and TEMPORARY table spaces are limited to 0x7FFF FEFF (2147483391) pages. Refer to the documentation for SQLCODE -1139.

ADM6043W The registry variable DB2_NO_MPFA_FOR_NEW_DB is set to an invalid value (regVarVal). As a result, the newly created database will have multi-page file allocation enabled. If this is not the desired result, set the DB2_NO_MPFA_FOR_NEW_DB registry variable to YES and recreate the database. To disable multi-page file allocation for all newly created databases, set the DB2_NO_MPFA_FOR_NEW_DB registry variable to YES.
ADM6044E The DMS table space tsname (ID tsid) is full. If this is an autosize or automatic storage DMS tablespace, the maximum table space size may have been reached or the existing containers or storage paths cannot grow any more. Additional space can be added to the table space by either adding new containers or extending existing ones using the ALTER TABLESPACE SQL statement. If this is an autosize or automatic storage DMS table space, additional space can be added by adding containers to an autosize table space or by adding new storage paths to the storage group it is using.

User response:

ADM6045I The database is no longer in the WRITE SUSPEND state. Database name: database-name.

Explanation: The WRITE SUSPEND state has been removed because write operations were resumed for the database by either the db2DatabaseRestart API or the RESTART DATABASE command with the WRITE RESUME parameter.

User response: No user action is required.

ADM6046I Multi-page file allocation already enabled. Enabling it again has no effect.

ADM6047W The table space tsname (ID tsid) is in the DROP_PENDING state. The table space will be kept OFFLINE. The table space state is state. This table space is unusable and should be dropped.

User response:

ADM6048I The table space tsname(ID tsid), which was previously OFFLINE has been brought back ONLINE. The table space state is state.

User response:

ADM6049E The database cannot be restarted because one or more table spaces cannot be brought online. To restart the database specify the "DROP PENDING TABLESPACES" option on the RESTART DATABASE command. Putting a table space into the drop pending state means that no further access to the table space will be allowed. The contents of the table space will be inaccessible throughout the remainder of the life of the table space; and the only operation that will be allowed on that table space is "DROP TABLE SPACE". There is no way in which it can be brought back. It is important that you consider the consequences of this action as data can be lost as a result. Before proceeding consult the DB2 documentation and contact IBM support if necessary. The table spaces to specify in the DROP PENDING TABLESPACES list are: tsnames.

ADM6050W The ALTER BUFFERPOOL statement for buffer pool bpname (ID bpid) was successful but could not be performed immediately because of insufficient memory. The change will take effect on the next database startup. Refer to the documentation for SQLCODE 20189.

ADM6051E The REORG command failed during RESTART DATABASE (crash recovery).

Explanation: An index or index partition cannot be recreated because the associated table or data partition is in a table space that is in the DROP_PENDING state.

User response: Set the INDEXREC database configuration parameter to "ACCESS" to delay index recreation until RESTART DATABASE completes.

ADM6052E Invalid container size specified for container contpath in the CREATE TABLESPACE or ALTER TABLESPACE statement. The number of pages specified for use is too small.

Explanation: You can specify the size of database managed space (DMS) table space containers when you create the table space using the CREATE TABLESPACE command. You can also change the size of DMS table space containers using the ALTER TABLESPACE command.

This message is returned when the specified number of pages is too small, when compared to the value of EXTENTSIZER that was specified when the table space was created.
For more information about the size of DMS table spaces, refer to the following topics in the DB2 Information Center: "CREATE TABLESPACE statement" and "Resizing DMS containers."

**User response:** If you are executing the CREATE TABLESPACE statement, execute the statement again, specifying a value for the container size that is at least twice as large as the value specified for EXTENTSIZE.

If you are executing the ALTER TABLESPACE statement, execute the statement again, specifying a value for the container size that is at least twice as large as the value for EXTENTSIZE that was specified when the table was created.

|ADM6053W| The CREATE BUFFERPOOL statement for buffer pool bpname (ID bpid) could not be performed immediately because not enough free memory existed in the database shared memory. The bufferpool will be created on the next database restart. Refer to the documentation for SQLCODE 20189.

|ADM6054I| DB2DART encountered table space tsname (ID tsid) which is currently not accessible. Since DB2DART is a diagnostic utility it will continue working on this table space.

|ADM6055I| Page pagenum was requested from table space tsname (ID tsid) but is not yet available because a rebalance which is in progress on this table space has not yet made that space useable. The requester will wait for the page to become available.

|ADM6056I| Prefetch queue full has been encountered. A prefetch request has not been queued as a result and performance will not be optimal. Reconsider the prefetcher configuration (NUM_IOSERVERS, PREFETCHSIZE) and number of containers in each table space.

|ADM6057I| Prefetch queue full has been encountered. Agent will wait for space to free up on the queue and thus performance will not be optimal. Reconsider the prefetcher configuration (NUM_IOSERVERS, PREFETCHSIZE) and number of containers in each table space.

|ADM6058I| Rebalancer for table space tsname (ID tsid) was started.

|ADM6059I| Rebalancer for table space tsname (ID tsid) was restarted.

|ADM6060I| The rebalancer utility started successfully for table space tsname (ID tsid) but due to an out of memory condition the ability to throttle the execution of this utility has been disabled. Restarting the instance may resolve the memory issue and will allow throttling to be enabled.

|ADM6061I| Rebalance for table space tsname (ID tsid) stopping. The last extent moved by the rebalance was lastext.

|ADM6062I| Rebalance for table space tsname (ID tsid) has been completed.

|ADM6063I| Rebalance for table space tsname (ID tsid) has been paused.

|ADM6064I| Rollforward is waiting on rebalance of table space tsname (ID tsid) to complete.

|ADM6065I| An attempt was made to remove the OFFLINE state from table space tsname (ID tsid) but it was not offline. This command will be ignored. The table space state is tsstate.

**User response:**

|ADM6066I| An attempt was made to remove the OFFLINE state from table space tsname (ID tsid) but the action was not successful and so the table space will remain in this state. The table space state is tsstate. Refer to the documentation for SQLCODE -293.

**User response:**
ADM6069W  Buffer pool bpname (ID bpid) has a NUMBLOCKPAGES value of oldNumBlockPages which exceeds the maximum supported value for a buffer pool of this size. The NUMBLOCKPAGES value for this buffer pool has been reduced to newNumBlockPages for its current activation. The value of NUMBLOCKPAGES can be permanently changed by using the ALTER BUFFERPOOL SQL statement.

ADM6070W  Buffer pool bpname (ID bpid) has a NUMBLOCKPAGES value of numBlockPages. This value is smaller than the smallest allowable value for NUMBLOCKPAGES which is the BLOCKSIZE of blockSize. As a result the buffer pool will not be made block based for its current activation. The value for NUMBLOCKPAGES can be permanently changed by using ALTER BUFFERPOOL SQL statement.

ADM6071I  The maximum number of pinned pages allowed concurrently was reached in buffer pool bpname (ID bpid). As a result performance may not be optimal. Increasing the SORTHEAP database configuration parameter may reduce the chances of this condition occurring in the future.

ADM6072W  Disk full was encountered when writing out a temporary page from buffer pool bpname (ID bpid). The buffer pool cannot be decreased in size until all necessary pages have been written to disk. Refer to previous messages in the administration notification log for details regarding the disk full condition. DB2 will continue to retry writing this page to disk until the disk full condition is resolved.

ADM6073W  The table space tsname (ID tsid) is configured to use buffer pool ID ondiskBP, but this buffer pool is not active at this time. In the interim the table space will use buffer pool ID RTBP. The inactive buffer pool should become available at next database startup provided that the required memory is available.

ADM6074I  The SET WRITE SUSPEND command had no effect because the specified database is already in the WRITE SUSPENDED state. Database name: database-name.

Explanation: An attempt was made to suspend write operations on the specified database, but this database is already in the WRITE SUSPENDED state.

User response: No user action is required.

ADM6075W  The database has been placed in the WRITE SUSPENDED state. Database name: database-name.

Explanation: You can suspend I/O write operations for a database by calling the SET WRITE SUSPEND command or by using the db2SetWriteForDB API. This message is returned when a database has been placed in WRITE SUSPENDED state.

User response: No user action is required.

Optional: To move the database out of WRITE SUSPENDED state, issue a SET WRITE RESUME command or a RESTART DATABASE command with the WRITE RESUME parameter.

ADM6076W  The database is no longer in the WRITE SUSPEND state. Database name: database-name.

Explanation: The database, which was previously in the WRITE SUSPEND state, is no longer in that state. Write operations have resumed for the database.

User response: No user action is required.

ADM6077I  The database is not in the WRITE SUSPEND state. Database name: database-name.

Explanation: An attempt was made to remove the database from the WRITE SUSPEND state, but the database is not in the WRITE SUSPEND state. Specifying WRITE RESUME has no effect.

User response: If the command that failed is the SET WRITE RESUME command, no user action is required.

If the command that failed is the RESTART DATABASE command with the WRITE RESUME parameter, issue the RESTART DATABASE command without the WRITE RESUME parameter. If this fails and the database is not in the WRITE SUSPEND state:

1. Wait until all SET WRITE SUSPEND operations are completed.

2. Reissue the RESTART DATABASE command with the WRITE RESUME parameter.
ADM6078W The following table spaces were specified on the RESTART DATABASE command to be placed in the DROP_PENDING state: tsnames.

ADM6079E The table space tsnam (ID tsid), was in the ROLLFORWARD_IN_PROGRESS state but can no longer be accessed. The table space has been taken offline and put into the RESTORE_PENDING state.

ADM6080E The table space tsnam (ID tsid), was put OFFLINE and in ROLLFORWARD_PENDING. Tablespace state is tsstate.

User response:

ADM6081W The table space tsnam (ID tsid) is in the OFFLINE state and is not accessible. The table space state is tsstate. Refer to the documentation for SQLCODE -293.

User response:

ADM6082W The current transaction is attempting to do work that is not allowed to fail. However, this work could not be completed as there are no free pages available in the buffer pool. Further attempts will be made to find free pages but in the future this situation can be avoided by increasing the size of buffer pool bname (ID bpid).

ADM6083E An error occurred while redoing an alter tablespace operation against table space tsnam (ID tsid) This error will be temporarily ignored while the remainder of the transaction is replayed. If the alter operation is eventually rolled back then the error will be discarded. However, if the operation is committed then this error will be returned, stopping recovery against the table space.

ADM6084E An attempt is being made to commit an alter operation against table space tsnam (ID tsid) but a previous error is preventing this from being done. Resolve the original error before attempting the recovery again.

ADM6085I An out of memory condition was encountered while resizing buffer pool hash buckets. As a result of this condition, performance may not be optimal. It is recommended that database be shut down and started again so that the buffer pool can start up with an optimally sized hash table.

ADM6086W The attempt to acquire and reset the phantom quiesce state for table space tsnam (ID tsid) did not change the state even though the command returned successfully. The authorization ID of the current user does not match the quiescer authorization ID and these must be the same to successfully acquire and reset a phantom quiesce. Determine the correct quiescer authorization ID by taking a table space snapshot and retry the quiesce reset command using that ID.

ADM6087I An attempt has been made to reset the quiesce state of table space tsnam (ID tsid) but the table space is not currently in the quiesce state.

ADM6088W Due to an out of memory condition, the current agent is unable to monitor table space tsnam (ID tsid). As a result, monitor output may be unreliable. Increase the DBHEAP configuration parameter to avoid this problem in the future.

ADM6089I The rebalancer utility started successfully for table space tsnam (ID tsid), but due to an out of memory condition the progress monitor service is disabled. Restarting the instance may resolve the memory issue and will enable the progress monitor service again.

ADM6090W A file handle limit, system wide or process/thread specific, was reached by a page cleaner. The page cleaner will respond by closing all file handles opened by the cleaner that received the error condition. This error will only be logged once per page cleaner that receives this error. Recommended actions are: check operating system file handle limits, then reduce the value of the maxfilop configuration parameter. You must restart the database (database deactivation or last connection termination), for any changes to these
ADM6091W

An attempt was made to automatically increase the size of auto-resize table space tsname (ID tsid) but the table space's maximum size (maxsize bytes) has been reached. Note that this value may be lower than expected due to uncommitted ALTER TABLESPACE statements. Also, because DB2 attempts to extend containers at the same rate and extending must occur in a multiple of extents, it may not actually be possible to reach the maximum size exactly. In this case, the current size (currentsize bytes) will have a smaller value than the maximum size. The MAXSIZE clause of the ALTER TABLESPACE statement can be used to increase the maximum size for this table space.

ADM6092W

An attempt was made to automatically increase the size of automatic storage table space tsname (ID tsid). This failed because all of the storage paths associated with the storage group are full or they do not have enough space to create a new container on them. New storage paths can be added to the storage group using the ALTER STOGROUP statement.

ADM6093W

An attempt was made to automatically extend container container in auto-resize table space tsname (ID tsid) but there is no space on the filesystem. As a result, the table space cannot increase in size any further. One way to resolve this is to make more space available on the filesystem. Alternately, a new stripe set can be added to the table space using the BEGIN NEW STRIPE SET clause of the ALTER TABLESPACE statement. When subsequent attempts to auto-resize the table space occur, only those newly added containers will be extended and the existing ones will remain as-is.

ADM6094W

A RESTORE DATABASE or ROLLFORWARD DATABASE command resulted in storage changes for auto-resize table space tsname (ID tsid). The effect is that the table space's maximum size had to be increased from oldmaxsize bytes to newmaxsize bytes on this partition. If there are multiple database partitions then the maximum size for the table space is now inconsistent between the database partitions. This will not cause any problems but it may not be desired. To resolve this use the ALTER TABLESPACE statement to set a new MAXSIZE value that is greater than or equal to the current size for each of the database partitions. Alternately, use the MAXSIZE NONE option to indicate that there is no maximum size.

ADM6095W

A rollforward operation encountered a log record associated with the ADD STORAGE clause of the ALTER DATABASE statement or the ADD clause of the ALTER STOGROUP statement. However, this log record was not replayed because the storage paths associated with the database were redefined during the previous database restore and it is assumed that the full set of storage paths were defined at that point. As a result, storage path storagepath was not added to the database.
ADM6096W The rollforward operation encountered a log record that is attempting to alter the maximum size for auto-resize table space tsname (ID tsid). While this was successful at run-time, a new container configuration has been established during the process of restoring and rolling forward the database or table space and this maximum size is less than the current size of the table space. The effect is that the table space's maximum size is being set to currentsize bytes instead of maxsize bytes. If there are multiple database partitions then the maximum size for the table space is now inconsistent between them. This will not cause any problems but it may not be desired. This can be resolved after the rollforward has completed by using the ALTER TABLESPACE statement to set a new MAXSIZE value that is greater than or equal to the current size for each of the database partitions. Alternatively, use the MAXSIZE NONE option to indicate that there is no maximum size for the table space.

ADM6097I Table space tsname (ID tsid) was successfully extended by extend bytes in a new stripe set.

ADM6098W Table space tsname (ID tsid) could not be extended because the container map became too complex.

ADM6099W Table space tsname (ID tsid) has reached the maximum size (maxsize bytes) for a tablespace of this type and page size. To add more storage to the database, add a new table space.

ADM6100W While attempting to autoresize table space tsname (ID tsid), container cname could not be grown.

ADM6101W While attempting to extend table space tsname (ID tsid), there were less than freebytes bytes free on path. This space is reserved for use by DB2 and/or the operating system.

ADM6102I Table space tsname (ID tsid) was successfully extended by extend bytes.

ADM6103W Table table-name cannot allocate a new page because the index with identifier index-id does not yet support large RIDs. The table space in which this table resides was converted to a large table space via the CONVERT TO LARGE clause of the ALTER TABLESPACE statement. The table itself cannot support large RIDs until all previously existing indexes on the table have been reorganized or rebuilt to support large RIDs. The index(es) must be reorganized or rebuilt to support future growth of this table.

Explanation: The indexes can be reorganized using the rebuild mode of the REORG INDEXES ALL FOR TABLE table-name command. For partitioned tables ALLOW NO ACCESS must be specified. Alternatively, the table can be reorganized (classic REORG, not INPLACE) which will not only rebuild all indexes, but will enable the table to support greater than 255 rows per page.

User response:

ADM6104W Table space tbspace-name is being converted from REGULAR to LARGE. Indexes on tables in this table space must be reorganized or rebuilt to support large RIDs. The table space being converted can, following COMMIT, support a storage capacity larger than that of a regular table space. The maximum page number for a data page in a regular table space is 0x00FFFFFF. A table which is allocated a page number above 0x00FFFFFF must have support from the indexes on the table to support such a page number. Until the indexes on a table are reorganized or rebuilt to support such a page number, allocation of such a page number to the table will result in an error.

Explanation: The documentation for the ALTER TABLESPACE statement in the SQL Reference specifies the best practices when using the CONVERT TO LARGE option. Please follow these recommendations to be pro-active in reorganizing or rebuilding all indexes on all tables in this table space to prevent possible future failures to grow the tables.
ADM6105E The storage paths associated with this storage group are inconsistent between database partition X and database partition Y. The database manager attempts to keep the storage paths consistent across all database partitions but there is now a discrepancy. While the database continues to function, it is recommended that the storage paths be made consistent across all of the partitions in the database. This is accomplished by backing up the database on each partition (unless backup images already exist) and restoring them. The catalog partition should be restored first, specifying the list of paths that each partition should use (using the RESTORE REDIRECT and SET STOGROUP PATHS commands). If the database is recoverable then a rollforward needs to be done after the database is restored on every partition.

User response:

ADM6106E Table space name (ID = id) could not be created during the rollforward operation. The most likely cause is that there is not enough space to create the containers associated with the table space. Connect to the database after the rollforward operation completes and use the SET TABLESPACE CONTAINERS command to assign containers to the table space. Then, issue another ROLLFORWARD DATABASE command to complete recovery of this table space.

User response:

ADM6107E Automatic storage table space name (ID = id) could not be created during the rollforward operation. The most likely cause is that there is not enough space on the storage group's storage paths to create the size byte table space. If this is the case then make more space available on the existing storage paths or add new storage paths using the ALTER STOGROUP SQL statement before issuing another ROLLFORWARD DATABASE command to recover this table space.

User response:

ADM6108I A request was made to drop storage path storage-path from the storage group. Multiple instances of this path exist on this database partition and all instances of it are being dropped.

Explanation: When a storage group on a database partition contains multiple instances of the specified storage path, a request to drop this storage path, using the ALTER STOGROUP statement, results in the dropping of all of the instances of this storage path in that storage group.

User response: No response is necessary.

ADM6109I A request was made to drop storage path storage-path from the storage group. The storage path will be dropped immediately.

Explanation: No table space uses the storage path on this database partition. The storage path is being dropped immediately.

User response: No response is necessary.

ADM6110I A request was made to drop storage path storage-path from the storage group. The storage path will not be removed from this database partition until all containers residing on it have been dropped.

Explanation: One or more automatic storage table spaces have containers on this storage path on this database partition. Therefore, the storage path is being placed into the "drop pending" state.

User response: One of the following actions:
- Drop and recreate temporary automatic storage table spaces.
- Use the REBALANCE clause of the ALTER TABLESPACE statement to move data from the storage paths that are in the "drop pending" state.
- Drop table spaces that you do not need.

ADM6111I No table space containers reside on storage path storage-path on this database partition. The storage path is in the "drop pending" state and will be removed from this database partition.

Explanation: Because the storage path does not contain any data, it will be dropped immediately.

User response: No response is necessary.
ADM6112I Storage path storage-path was added to the storage group. The new storage path will not be used automatically.

Explanation: Temporary, regular, or large automatic storage table spaces cannot automatically use new storage paths.

User response: If you want temporary table spaces to use the new storage path, the database must be stopped and started again:

- If the database was explicitly activated, first deactivate the database by using the DEACTIVATE DATABASE command, then reactivate it by using the ACTIVATE DATABASE command.
- If the database was not explicitly activated, disconnect or force all users from the database and then connect to the database again.

When the database is started, the temporary table spaces will use the new storage path.

Alternatively, you can drop the temporary table space by using the DROP TABLESPACE statement, then recreate it by using the CREATE TABLESPACE statement. When it is recreated, the temporary table space will use the new storage path.

Regular and large table spaces do not use a new storage path until a "disk full" condition occurs for an existing container. If you want to stripe the table space over all the storage paths (including new paths), use the ALTER TABLESPACE statement with the REBALANCE clause. This statement creates containers for each of the table space stripe sets, one for each path that does not already contain a container.

You can determine the list of automatic storage table spaces in the database by issuing the following SQL statement:

```sql
SELECT TBSP_NAME, TBSP_CONTENT_TYPE
FROM SYSIBMADM.SNAPTBSP
WHERE TBSP_USING_AUTO_STORAGE = 1
ORDER BY TBSP_ID
```

ADM6113I Table space tablespace exceeded its maximum size.

Explanation: A rebalance operation added data from one or more dropped storage paths to this table space. The rebalance operation was successful; however, the table space has exceeded its maximum size.

User response: No user response is required.
Chapter 13. ADM6500 - ADM6999

ADM6500W The connection for the DATALINK file server fileServer has failed. The server is blocked.

ADM6501W The connection for the DATALINK file server fileServer has failed to restart.

ADM6502W The connection for the DATALINK file server fileServer has failed.

ADM6510W The DATALINK file server fileServer has not been registered.

ADM6511W The DATALINK file server fileServer is not active.

ADM6512W DB2 is unable to read from the DATALINK configuration file.

ADM6513W DB2 is unable to create the DATALINK configuration file fileName.

ADM6514W An error has occurred while DB2 was writing to the DATALINK configuration file.

ADM6515W An error has occurred while DB2 was closing the DATALINK configuration file.

ADM6516W DB2 is unable to open the DATALINK configuration file fileName.
Chapter 14. ADM7000 - ADM7499

ADM7000W  An invalid SEARCH discovery protocol, fileName, was specified in the DISCOVER_COMM registry variable.

ADM7001E  The DB2 function sqloinstancepath has failed. The instance path was not set. If you are on UNIX, check the DB2INSTANCE registry variable. If you are on Windows, check the DB2INSTANCE, DB2PATH, and DB2INSTPROF registry variables.

ADM7004E  An invalid value (value) was specified for the DB2COMM registry variable.

ADM7005W  The DISCOVER mode was set to SEARCH. However, the DISCOVER_COMM registry variable was not configured with any protocols.

ADM7006E  The SVCENAME DBM configuration parameter was not configured. Update the SVCENAME configuration parameter using the service name defined in the TCP/IP services file.

ADM7007E  The SVCENAME DBM configuration parameter, socketAddress, is configured with a port or a service name. When it is configured with a service name, the TCP/IP services files is used to map the service name to a port number. The port specified in this field is being used by another process. Resolve this problem by either deleting the process using the port or use another port.

ADM7008W  The DB2TCPCONNMGRS registry variable value, userValue, is invalid. A valid value is from 1 to 8. A default DB2TCPCONNMGRS value of defaultValue has been used.

ADM7009E  An error was encountered in the protocolTCP/IP protocol support. A possible cause is that the maximum number of agents has been exceeded.

ADM7011E  The Sync Point Manager does not support the version of Microsoft SNA Server installed on this machine. Minimum requirement is Microsoft SNA Server V4 Service Pack 3.

ADM7012E  The SSL_SVR_KEYDB DBM configuration parameter was not configured. Update the SSL_SVR_KEYDB configuration parameter.

ADM7013E  The SSL_SVR_STASH DBM configuration parameter was not configured. Update the SSL_SVR_STASH configuration parameter.

ADM7014E  The SSL_SVCENAME DBM configuration parameter was not configured. Update the SSL_SVCENAME configuration parameter using the service name defined in the TCP/IP services file.

ADM7015I  The connection is using SSL version version and cipher spec cipherspec.

ADM7016I  The allowed SSLv3 cipher specs are cipherspecs. The allowed TLSv1 cipher specs are cipherspecs.

ADM7017E  TCP/IP and SSL cannot be configured on the same port number.
Chapter 15. ADM7500 - ADM7999

ADM7500W A request was made to quiesce an instance with the following quiesce mode: quiesce-mode

Explanation: You can force off all users of a database manager instance and put the instance and all databases in the instance into quiesce mode using the QUIESCE INSTANCE or the START DATABASE MANAGER commands (or the db2InstanceQuiece or db2InstanceStart APIs). This message is returned to acknowledge and log the quiesce mode of the request to quiesce an instance.

User response: No user response is required.

ADM7501W Instance quiesce request has completed successfully.

ADM7502E Instance quiesce request has failed. The SQLCODE is SQLCODE.

ADM7503W Instance unquiesce request has completed successfully.

ADM7504W Instance unquiesce has been requested.

ADM7505E Instance unquiesce request has failed. The SQLCODE is SQLCODE.

ADM7506W A request was made to quiesce a database with the following quiesce mode: quiesce-mode

Explanation: The database was requested to be put into quiesce mode using the QUIESCE DATABASE command or the db2DatabaseQuiesce API. This message is returned to acknowledge and log the quiesce mode of the request to quiesce a database.

User response: No user response is required.

ADM7507W Database quiesce request has completed successfully.

ADM7508E Database quiesce request has failed. The SQLCODE is SQLCODE.

ADM7509W Database unquiesce request has completed successfully.

ADM7510W Database unquiesce has been requested.

ADM7511E Database unquiesce request has failed. The SQLCODE is SQLCODE.

ADM7512E A transaction resynchronization error has occurred, contact IBM Support for assistance.

ADM7513W Database manager has started.

ADM7514W Database manager has stopped.

ADM7515W The concentrator has been enabled without directory caching support which may result in a performance penalty. To correct this problem, enable directory caching in the database manager configuration.

Explanation: Directory caching is a feature with relatively low overhead that is enabled by default in the engine. There are only a few valid reasons why a user may want to disable it. The concentrator configurations are particularly sensitive to having directory caching turned off because the dispatcher processes, which are the bottleneck for concentrator, could be potentially required to go to disk with every new connection.

User response: Enable directory caching, or run in a non-concentrator configuration.

ADM7516N During automatic restart, DB2 cluster services failed to recover the database named database-name on the following DB2 member: member-ID

Explanation: In a DB2 pureScale environment, if a database member fails, member crash recovery is automatically initiated for that member. In addition, if both cluster caching facilities fail at the same time, group crash recovery is automatically initiated.

During member crash recovery, no connections are allowed against the database through that member. Attempted connections to the named database through the named DB2 member will fail until the database has been successfully recovered.

This message is returned when DB2 cluster services fails to recover a database for a failed member during an automatic restart. An ALERT is set for the member on the host where the recovery failed.

User response:
1. Collect additional, related troubleshooting and diagnostic information by searching in the db2diag log files for this message identifier.

2. Determine whether the database is in a backup pending, rollforward pending, or restore pending state by running the GET DB CONFIG command.

3. If the database is in a pending state, take the required actions to move the database out of the pending state.

4. Manually recover the failed database by running the RESTART DATABASE command. The alert will automatically be cleared when the database is successfully recovered.

ADM7517W When the concentrator is enabled, the maximum number of applications per application group in the database databaseName will be limited to maxApp. To correct this problem, decrease the value of the APPGROUP_MEM_SZ configuration parameter.

ADM7521E Unmount mounted filesystem(s) has failed on node db-partition-number. Remount the unmounted filesystem(s) and try the database migration again.

ADM7522E Remount unmounted filesystem(s) to new mount points has failed on node db-partition-number. Restart database migration is needed.

ADM7523E DB2 was unable to allocate the application group memory set. This will cause database activation to fail. Reduce the APPGROUP_MEM_SZ DB configuration parameter and retry.

ADM7524E The database manager has increased the amount of memory that is allocated for restart light recovery purposes to the minimum required size that is needed for starting the DB2 idle process.

Explanation: The current calculated restart light memory size is too small to allocate enough memory to start the DB2 idle process. The restart light memory size is calculated using the instance_memory configuration parameter and the rstrt_light_mem configuration parameter, which specifies a percentage of instance_memory. The restart light memory size must be greater than or equal to the minimum required restart light memory size.

The DB2 idle process needs to be started for DB2START processing to succeed, so the restart light memory size has been increased to the minimum required size.

User response:
1. Check the db2diag.log to find the values for:
   - calculated restart light memory size
   - minimum required restart light memory size

2. Check the current values of the instance_memory and rstrt_light_mem configuration parameters and increase one (or both) of them so that the calculated restart light memory size is greater than or equal to the minimum required restart light memory size.

ADM7525E The following member was unable to access the secondary CF to initiate catch up: member-id. Member host name: host-name. Secondary CF host name: CF-host-name.

Explanation: After a secondary cluster caching facility, also known as CF, is added, and after a secondary CF host computer is restarted, the secondary CF must go through a process to join the cluster. Specifically, when the first database connection is made after a secondary CF joins a cluster, the secondary CF copies information from the primary CF. This copying of information is
known as "catch up", and while the secondary CF is
copying data from the primary CF, the secondary CF is
in CATCHUP state.

This message is returned when the member that is
processing the first database connection after a
secondary CF joins a cluster cannot access the
secondary CF to initiate the catch up process.

Possible reasons that a member cannot initiate the catch
up process for a secondary CF include the following
reasons:

- Network errors, such as problems with uDAPL,
  prevent the member from accessing the secondary
  CF
- The host on which the secondary CF is located is
  unavailable
- The secondary CF server processes are not running

User response: Perform the following troubleshooting
steps:

- Verify that the member member-id can access the host
  on which the secondary CF is located, CF-host-name
  using the ping utility, for example.
- Look for messages related to the secondary CF server
  processes in the following diagnostic files:
  - cfdump.out* files
  - cfdiag.log files
  - core files
- Investigate whether there are any uDAPL
  communication problems.

ADM7526E The database activation failed because the
secondary CF failed to allocate one or more
required structures.

Explanation: The cluster caching facility, also known
as CF, contains the following structures:

- Group Buffer Pool (GBP)
- CF Lock Manager (LOCK)
- Shared Communication Area (SCA)

The size of each of these structures, GBP, SCA, and
LOCK can be configured online.

One reason that this failure can happen is that non-DB2
applications on the secondary CF host used a large
amount of memory while the secondary CF was
allocating memory for structures.

User response: Respond to this error by performing one
or more of the following steps:

- If there are non-DB2 applications running on the
  secondary CF server host in addition to the
  secondary CF itself, ensure there is sufficient memory
  to handle the secondary CF workload before
  activating the secondary CF.
  
  For example, configure the amount of memory
  specified by the CF_MEM_SZ database manager
  parameter for the secondary CF to be as large as or
  larger than the value of CF_MEM_SZ on the primary
  CF.

- Configure the secondary CF to use less total memory
  by specifying a smaller size for the following
database configuration parameters:
  - CF_SCA_SZ
  - CF_GBP_SZ
  - CF_LOCK_SZ
  - CF_DB_MEM_SZ
  - CF_MEM_SZ

ADM7528N The database manager started with
fewer Host Channel Adapter Adapters (HCAs) than configured for the cluster
caching facilities (CFs).

Explanation: The database manager encountered a
non-critical error when starting. Communication could
not be established with one or more HCAs on a CF,
however each cluster caching facility (CF) is connected
by at least one HCA. With fewer HCAs the CF has less
throughput capacity. There is also a greater risk of
downtime due to the reduced redundancy.

User response: Review cluster alerts by running
'db2cluster -cm -list -alert' to see which HCAs are not
responding. Follow the corrective actions given by the
alerts to rectify any reported problem.
ADM7529I  Cluster caching facility (CF) has stopped.
Explanation: The CF has successfully stopped.
User response: No response is required.

ADM7530W  An unexpected cluster caching facility (CF) error occurred. CF recovery will be attempted.
Explanation: The CF stopped because of an unexpected error. DB2 will perform a cleanup and restart the CF.
User response: To avoid receiving this message in the future, check the db2diag.log and the cfdiag.cfd.log files to see if there are any messages around the time of the recovery attempt.

Explanation: The indicated CF is now in the indicated state.
User response: No response is required.

ADM7532E  Cluster caching facility (CF) with identifier identifier is now in ERROR state.
Explanation: The indicated CF could not be restarted.
User response: Resolve the problem and manually clear the alert. You can use the db2instance and db2cluster commands to help you with this. After the problem has been resolved, attempt to start the CF.

ADM7533I  Cluster caching facility (CF) has started.
Explanation: The CF has successfully started.
User response: No response is required.

ADM7534W  During database upgrade the rebind operation failed for one or more packages. Log file: log-file.
Explanation: The REBINDALL option was specified on the UPGRADE DATABASE command to rebind all the packages during database upgrade. The database was upgraded successfully, however, one or more packages failed to rebind. The errors and the package names are recorded in the generated log file.
User response:
1. Resolve the source of the problem by following the actions indicated by the messages that are recorded in the generated log file.
2. Rebind the packages using the db2rbind command.

ADM7535W  The UPGRADE DATABASE command failed to refresh the table space attributes in the catalog table. However the database was upgraded successfully.
Explanation: In DB2 V10 some new attributes are added in the catalog tables for each table space in the database. The database upgrade process failed to initialize these new attributes with appropriate values. See the file db2diag.log to determine the cause of failure. The database performance may not be optimal until the table space attributes are properly initialized.
User response: Resolve the errors that caused the initialization of the tablespace attributes to fail during database upgrade. Execute the DATABASE UPGRADE command again to initialize the table space attributes.

ADM7536I  The status of adapter adapter-name was found to be: ONLINE-or-OFFLINE-status.
Explanation: This message is returned to show whether adapters are online or offline.
User response: No response is required.

ADM7537I  The status of the following adapter changed. Adapter name: adapter-name. New status: ONLINE-or-OFFLINE. Number of adapters that are currently online: number. Host name: host-name.
Explanation: The cluster caching facility (CF) monitors adapters to determine whether those adapters are online or offline.
This message is returned when the CF detects that an adapter has changed from online to offline or from offline to online.
User response: No response is required.

ADM7538E  The database upgrade operation completed successfully. However there are tables in the upgraded database that are in load pending state. These tables cannot be used by the upgraded database.
Explanation: This message is returned if the database upgrade operation found that a previous LOAD attempt on one or more tables in the database did not complete successfully. These tables cannot be accessed in the upgraded database.
User response:
1. To find out what tables are in a load pending state run the following command:
   ```
   select <tabname> from SYSIBMADM.ADMINTABINFO
   where load_status is not NULL
   ```
2. In the previous release environment, restart or terminate the failed LOAD operation by issuing the LOAD command with the RESTART or TERMINATE option.

3. Reload the table by performing the following steps:
   a. Unload the table from the previous release database.
   b. Drop and recreate the table in the upgraded database.
   c. Reload the table in the upgraded database, using the data that was unloaded from the previous release database.

ADM7539I  The database manager has completed processing the topology change that resulted in a backup pending state.

Explanation: The database manager has completed processing a topology change that resulted in the dropping of some members, or a configuration change between ESE and DB2 pureScale instances. In both cases, for those members that were in the previous member topology for the database but are not in the current member topology, this might have resulted in the deletion of files from those member database directories.

User response: No action required.
Chapter 16. ADM8000 - ADM8499

ADM8000C Backup has been terminated. The SQLCODE returned is SQLCODE.

ADM8001W Incremental backup was not enabled for this database because the TRACKMOD DB configuration parameter was not enabled.

ADM8002W This backup image cannot be used for ROLLFORWARD because the logs associated with this backup has been overwritten on the raw device. Use a more recent backup image.

ADM8003C Restore has been terminated. The SQLCODE returned is SQLCODE.

ADM8004W Incremental backup was not enabled for table space \texttt{tablespaceName} (ID tablespaceID) because the TRACKMOD configuration parameter was not enabled.

ADM8005W Incremental backup was not enabled for table space \texttt{tablespaceName} (ID tablespaceID). A non-incremental backup of this table space is required.

ADM8006W DB2 cannot use the specified restore buffer size of \texttt{restoreBufferSize} 4K pages. A restore buffer size must be multiple of backup buffer size of \texttt{backupBufferSize} 4K pages. The restore operation will continue with the default buffer size.

ADM8007W DB2 cannot perform multiple concurrent incremental restores.

ADM8008W DB2 could not find and/or delete the online reorganization state files for all table spaces during restore. Manual intervention may be needed to remove the file(s).

ADM8009W Could not find and/or delete the online reorganization state files for table space \texttt{tablespaceName} (ID tablespaceID) during restore. Manual intervention may be needed to remove the file(s).

ADM8010E Backup was unable to copy requested log file \texttt{logfileName} for inclusion in the backup image. The backup has been aborted.

ADM8011W The database backup succeeded. However, the DB2 database server was unable to create part of the incremental chain of images during the backup, and will be unable to use the affected images during restore. Specifically, you will not be able to use the backup image with timestamp \texttt{timestamp} for incremental restores involving table space \texttt{table-space-name}.

ADM8012W The database backup succeeded. However, the entry in the recovery history file corresponding to the backup image with timestamp \texttt{timestamp} will not be well-formed, because a write error occurred while updating the recovery history file itself. See the \texttt{db2diag} log file for more information.
Chapter 17. ADM8500 - ADM8999

ADM8500W  DB2 has failed to read from the history file because of a possible data corruption. Ensure that the file exists and is intact.

ADM8501W  DB2 has failed to write to the history file because the disk is full.

ADM8502W  The history file is corrupt. An unrecoverable error has been detected with the file. The existing file has been deleted and a backup has been made. If you would like to determine the root cause of the problem, contact IBM Support. Otherwise, no further action is needed.

ADM8503W  DB2 was unable to record a history entry for operation operation.

ADM8504I  Successfully deleted the backup image with timestamp timestamp.

ADM8505I  Successfully deleted the load copy image with timestamp timestamp.

ADM8506I  Successfully deleted the following database logs log-list in log chain log-chain.

ADM8507N  Unable to delete the backup image with timestamp timestamp.

Explanation: The DB2 database manager attempted to delete the given backup image, but was unsuccessful.

User response: Verify that DB2 has access to the storage manager or directory where the backup images are stored. See the db2diag log file for more information.

ADM8508N  Unable to delete the load copy image with timestamp timestamp.

Explanation: The DB2 database manager attempted to delete the given load copy image, but was unsuccessful.

User response: Verify that DB2 has access to the storage manager or directory where the load copy images are stored. See the db2diag log file for more information.
ADM9000W  Prefetching was disabled during sort merge; performance may be suboptimal. If this message persists, consider increasing the buffer pool size for temporary table space `tablespaceName` (ID `tablespaceID`) or increase the value of the SORTHEAP DB configuration parameter to reduce the extent of sort spilling.
Chapter 19. ADM9500 - ADM9999

ADM9500W Too many concurrent updates had occurred on table `tableName` (ID `tableID`) and table space `tablespaceName` (ID `tablespaceID`) during online index create/reorganization. Thus, it will take a longer time to finish online index create/reorganization. You may want to increase your UTIL_HEAP_SZ DB configuration parameter.

User response: Correct the problem that is described by the SQLCODE, and then retry the REORG INDEXES command on the database partition.

ADM9505W Online index reorganization on table `tableName` (ID `tableID`) and table space `tablespaceName` (ID `tablespaceID`) has been switched to offline mode because the indexes are marked for rebuild. These indexes may have been marked for rebuild during a roll forward through an index creation and/or recreation. If this is the case, consider setting the INDEXREC database manager configuration parameter to RESTART. This will cause indexes that are marked for rebuild during roll forward to be rebuilt during RESTART DATABASE processing.

ADM9506W HADR is enabled, but full logging is disabled for any index creation, recreation, or reorganization on table `tableName` (table object id: `object-id`) in `tablespaceName` (tablespace id: `tablespace-id`), since you have explicitly requested to disable it. As a result, any index build operations on this table will not be recovered immediately on the secondary database server using HADR. Indexes on the secondary database server will be recreated implicitly at the end of the HADR takeover process or after the HADR takeover process when the underlying tables are to be accessed. If this is not the desired behavior, enable the full logging on the table before any create, recreate, or reorg index is performed.

ADM9501W Index reorganization has started for table `tableName` (ID `tableID`) and table space `tablespaceName` (ID `tablespaceID`).

Explanation: The data server is reorganizing the indexes for the specified table. The re-organization is either for nonpartitioned indexes on a partitioned table or for indexes on a nonpartitioned table.

User response: No response is required.

ADM9502W Index reorganization is complete for table `tableName` (ID `tableID`) and table space `tablespaceName` (ID `tablespaceID`).

Explanation: The data server reorganized the indexes for the specified table. The index reorganization was either for nonpartitioned indexes on a partitioned table or for indexes on a nonpartitioned table.

User response: No response is required.

ADM9503W Reorganizing index IID `indexIID` (OBJECTID `indexObjectID`) in table space `indexTablespaceName` (ID `indexTablespaceID`) for table `tableName` (ID `tableID`) in table space `tablespaceName` (ID `tablespaceID`).

Explanation: The data server is reorganizing the specified index. The reorganization is either for nonpartitioned indexes on a partitioned table or for indexes on a nonpartitioned table.

User response: No response is required.

ADM9504W Index reorganization on table `tableName` (ID `tableID`) and table space `tablespaceName` (ID `tablespaceID`) failed on this database partition with SQLCODE `SQLCODE reason code reasonCode`.

Explanation: Index reorganization failed on this database partition for the reason described by the SQLCODE. The indexes referred to in this context are either nonpartitioned indexes on a partitioned table or indexes on a nonpartitioned table.

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ADM9507W When HADR is enabled, it is recommended that the database configuration parameter LOGINDEXBUILD is set to ON on both the HADR primary database server and the HADR secondary database server. Otherwise, you may not log your index creation, recreation, or reorganization on current or future HADR primary database server. Any non-fully logged index creation, recreation, or reorganization on the primary database server will not be recovered on the secondary database server using HADR. Those indexes which cannot be recovered will be marked as invalid, and will be rebuilt implicitly at the end of the HADR takeover process or after the HADR takeover process when the underlying tables are accessed. If this is not the desired behavior, update the database configuration parameter LOGINDEXBUILD to ON.

ADM9508W When HADR is enabled, it is recommended that the database or database manager configuration parameter INDEXREC is set to either RESTART or ACCESS in order to enable redo of any index creation, recreation or reorganization. Otherwise, any fully logged index creation, recreation, or reorganization on the primary database server will not be recovered on the secondary database server using HADR. Those indexes which cannot be recovered will be marked as invalid and will be rebuilt implicitly at the end of the HADR takeover process or after the HADR takeover process when the underlying tables are accessed. If this is not the desired behavior, enable the full logging or use the default setting for this configuration parameter before any index build operations take place.

ADM9509W It is recommended that the database configuration parameter LOGINDEXBUILD is set to ON before HADR is started. Otherwise, any index creation, recreate, or reorganization on the current or future primary database server may not be recovered on the current or future secondary database server using HADR. Those indexes which cannot be recovered will be marked as invalid and will be rebuilt implicitly either at the end of the HADR takeover process or after the HADR takeover process when the underlying tables are to be accessed. If this is not the desired behavior, update the database configuration parameter LOGINDEXBUILD to ON.

ADM9510W An error (sqlcode sqlcode) occurred which prevented the completion of the index rebuild process. Any invalid indexes that have not been rebuilt when the process terminated will be recreated on the first table access. The index rebuild process was invoked either during an explicit or implicit restarting of the database, or at the end of the HADR takeover.

ADM9511W Index reorganization proceeds on index indexname (IID indexIID, OBJECTID indexObjectID) in table space indexTablespaceName (ID indexTablespaceID) for table tableName (ID tableID) in table space ID tablespaceID.

ADM9512W Index reorganization for index indexname (IID indexIID, OBJECTID indexObjectID) in table space indexTablespaceName (ID indexTablespaceID) for table tableName (ID tableID) in table space ID tablespaceID failed on this node with SQLCODE SQLCODE reason code reasonCode. To resolve this problem, re-submit the REORG INDEX command on the failing node(s).

ADM9513W Online index reorganization on table tableName (ID tableID) in table space tablespaceName (ID tablespaceID) found one or more indexes that are marked invalid and cannot proceed until they are rebuilt.

Explanation: The data server will automatically rebuild the indexes on this table. If any nonpartitioned indexes are being rebuilt, the data server will obtain a super exclusive Z table lock for the duration of the
rebuild. If only partitioned indexes are being rebuilt, the data server will obtain a super exclusive Z partition lock on each data partition that has invalid indexes for the duration of the rebuild. After the rebuild is complete, the online index reorganization will proceed (using the original lock modes) for any indexes that were specified for reorganization by the current command and have not yet been rebuilt.

User response: No response is required.

ADM9514I BEGIN async index cleanup on table tableName (ID tableID) and table space tablespaceName (ID tablespaceID).

ADM9515I END async index cleanup on table tableName (ID tableID) and table space tablespaceName (ID tablespaceID).

ADM9516W Indexes on the table table_identifier were marked to be rebuilt while upgrading the database.

Explanation: The table_identifier is shown in one of the following forms:
  - TBSPACEID=table_space_id.TABLEID=table_id
  - schema_name.table_name

The indexes on the identified table must be rebuilt because one of the following situations was encountered during a database upgrade:
- A root page has insufficient space
- A type-1 index was detected
- One or more non-severe errors occurred converting the index page.

User response: Indexes will be rebuilt automatically after upgrading the database in one of the following ways:
- If the indexrec database configuration parameter is set to RESTART or RESTART_NO_REDO, then issuing the RESTART DATABASE command will trigger the rebuild of the indexes.
- If the indexrec database configuration parameter is set to ACCESS or ACCESS_NO_REDO, then the indexes will be rebuilt on first access to the table on which the indexes are defined. The ADMIN_GET_TAB_INFO function can be used to identify which tables have indexes that require rebuilding.

There will be a one-time performance impact while the indexes are rebuilt.

ADM9518I Index reorganization has started for the partitioned indexes on data partition dataPartitionID of table tableName (ID tableID) and table space tablespaceName (ID tablespaceID).

Explanation: The data server is reorganizing the partitioned indexes for the specified data partition.

User response: No response is required.

ADM9519I Index reorganization is complete for partitioned indexes on data partition dataPartitionID of table tableName (ID tableID) and table space tablespaceName (ID tablespaceID).

Explanation: The data server has reorganized the partitioned indexes for the specified data partition.

User response: No response is required.

ADM9520I Reorganizing partitioned index IID indexIID (OBJECTID indexObjectID) in table space indexTablespaceName (ID indexTablespaceID) for data partition dataPartitionID of table tableName (ID tableID) in table space tablespaceName (ID tablespaceID).

Explanation: The data server is reorganizing the index partition on the specified data partition for the specified partitioned index.

User response: No response is required.

ADM9521W Index reorganization for partitioned indexes on data partition dataPartitionID of table tableName (ID tableID) and table space tablespaceName (ID tablespaceID) failed on this database partition with SQLCODE SQLCODE reason code reasonCode.

Explanation: Index reorganization of the partitioned indexes failed on this database partition for the reason described by the SQLCODE.

User response: Correct the problem that is described by the SQLCODE, and then retry the REORG INDEXES command on the database partition.

ADM9522I Index reorganization is complete for partitioned indexes on data partition dataPartitionID of table tableName (ID tableID) and table space tablespaceName (ID tablespaceID).

Explanation: The data server has reorganized the partitioned indexes for the specified data partition. Some partitioned indexes on the data partition might still need to be reorganized. This index reorganization will occur later during the reorganization.
User response: No response is required.
Chapter 20. ADM10000 - ADM10499

ADM10000W  A Java exception has been caught. The Java stack traceback has been written to the db2diag log file.
Chapter 21. ADM10500 - ADM10999


Explanation: The health monitor generated an alert because the alarm threshold for this health indicator was breached. This situation should be addressed immediately as it can lead to a degradation in database performance or an interruption in operation.

User response: You can use CLP commands to obtain recommendations, and in some cases take actions, to resolve this alert.

From the CLP, you can obtain the Health indicator description and recommended actions by executing the following commands:

- GET RECOMMENDATIONS FOR HEALTH INDICATOR Health-Indicator-Short-Name
- GET DESCRIPTION FOR HEALTH INDICATOR Health-Indicator-Short-Name

ADM10502W Health indicator Health-Indicator-Short-Description (Health-Indicator-Short-Name) is in state Health-Indicator-Value on Monitored-Object-Type Monitored-Object-Name.

Explanation: The health monitor generated an alert because the state value of this health indicator was non-normal. This condition does not necessarily require immediate attention, but rather it will depend on the expected state of the database given operations being performed on it at the time, and the prevailing workload.

User response: You can use CLP commands to obtain recommendations, and in some cases take actions, to resolve this alert.

From the CLP, you can obtain the Health indicator description and recommended actions by executing the following commands:

- GET RECOMMENDATIONS FOR HEALTH INDICATOR Health-Indicator-Short-Name
- GET DESCRIPTION FOR HEALTH INDICATOR Health-Indicator-Short-Name

ADM10501W Health indicator Health-Indicator-Short-Description (Health-Indicator-Short-Name) is in state Health-Indicator-Value on Monitored-Object-Type Monitored-Object-Name.

Explanation: The health monitor generated an alert because the state value of this health indicator was non-normal. This condition does not necessarily require immediate attention, but rather it will depend on the expected state of the database given operations being performed on it at the time, and the prevailing workload.

User response: You can use CLP commands to obtain recommendations, and in some cases take actions, to resolve this alert.

From the CLP, you can obtain the Health indicator description and recommended actions by executing the following commands:

- GET RECOMMENDATIONS FOR HEALTH INDICATOR Health-Indicator-Short-Name
- GET DESCRIPTION FOR HEALTH INDICATOR Health-Indicator-Short-Name

ADM10503I The health monitor has initiated an alert action, running Alert-Action-Type Alert-Action-Name on System-Name, because the Health Indicator Health-Indicator-Short-Description (Health-Indicator-Short-Name) is in the Alert-State alert state on Monitored-Object-Type Monitored-Object-Name.

Explanation: The health monitor was configured to initiate the action when the health indicator is in this alert state. This message is an indication that the action was indeed initiated.

User response: No action is required.
ADM10504E  The health monitor failed, with sqlcode SQLCODE, to initiate an alert action, running Alert-Action-Type Alert-Action-Name on system System-Name, when the Health Indicator Health-Indicator-Short-Description (Health-Indicator-Short-Name) went into the Alert-State alert state on Monitored-Object-Type Monitored-Object-Name.

Explanation: The health monitor was configured to initiate the action when the health indicator is in this alert state, but received this SQLCODE when it called the API to execute the action. The alert action was not initiated.

User response: Check the First Failure Service log (db2diag log file) for a record detailing the failure.

ADM10505E The DB2 Service does not have the necessary authority to run the Health Monitor. The Health Monitor has been shut down. If the service is configured to log on using the Local System account (SYSTEM), then it must be changed to log on with a particular user account. If it is configured to log on with a particular user account, then you must ensure that the user account is valid and has the necessary access rights to run the DB2 service. Once the log on configuration has been corrected, it is necessary to restart the DB2 service to start the Health Monitor.

ADM10506E The health monitor is unable to send an alert notification because the SMTP Server (smtp_server) DB2 Administration Server configuration parameter is not set. Update the smtp_server configuration parameter with the name of a valid SMTP server.

Explanation: The health monitor was configured to send notifications upon alert occurrence, but was unable to send the notification because no SMTP server name was specified for the SMTP Server DAS configuration parameter.

User response: Update the smtp_server configuration parameter with the name of a valid SMTP server.

ADM10507E The health monitor was unable to send an alert notification because the server SMTP-Server-Name, specified in the SMTP Server DB2 Administration Server configuration parameter (smtp_server), does not appear to be an SMTP server. Ensure that a valid SMTP server name is specified in the DB2 Administration Server configuration.

Explanation: The health monitor was configured to send notifications upon alert occurrence, but was unable to send the notification because the server specified in the DB2 Administration Server configuration does not have SMTP server functionality.

User response: Ensure that a valid SMTP server name is specified in the DB2 Administration Server configuration for the smtp_server parameter.

ADM10508E The health monitor was unable to send an alert notification because invalid recipient(s) were specified in the health notification list which contains Notification-List. Update the Contact record with the invalid address.

Explanation: The health monitor was configured to send notifications upon alert occurrence, but was unable to send the notification because one or more addresses for the contacts specified on the health notification list are invalid.

User response: Check the Contact record for the contacts specified for health notification and update the invalid recipient address.

ADM10509E The health monitor was unable to send an alert notification because the notification was sent by an invalid Sender with the address Sender-Address. Look at the SMTP server configuration. If all the settings are correct, contact DB2 Support.

Explanation: The health monitor was configured to send notifications upon alert occurrence, but was unable to send the notification because the Sender address was rejected as unacceptable by the SMTP server. The Sender address has the format <instance name>@<host>, where 'instance' is running on 'host'.

User response: Look at the SMTP server configuration. If all the settings are correct, contact DB2 Support.

ADM10510E The health monitor was unable to send an alert notification because the SMTP server issued the following error: SMTP_ERROR. Check the SMTP server documentation for information on the error code that was returned. If the problem cannot be remedied, contact DB2 Support.

Explanation: The health monitor was configured to send notifications upon alert occurrence, but was unable to send the notification because the SMTP server encountered an error.

User response: Check the SMTP server documentation
for information on the error code that was returned. If the problem cannot be remedied, contact DB2 Support.

ADM10511E The health monitor was unable to send an alert notification because there was a communication error with the SMTP server. Check the First Failure Service log (db2diag log file) for a record detailing the failure.

Explanation: The health monitor was configured to send notifications upon alert occurrence, but was unable to send the notification because there was a communication error when trying to reach the SMTP server.

User response: Check the First Failure Service log (db2diag log file) for a record detailing the failure.

ADM10512W Health indicator Health-Indicator-Short-Description (Health-Indicator-Short-Name) is in state Health-Indicator-Value on Monitored-Object-Type Monitored-Object-Name. Collection (Object Name, Timestamp, Value, Detail):

Collection.

Explanation: The health monitor generated an alert because the state value of this health indicator was non-normal. This condition does not necessarily require immediate attention but indicates that a non-optimal situation prevails with respect to the health of one or many object collected under this health indicator. The situation may get resolved automatically if the corresponding automatic maintenance utility was turned on and the state is automated.

User response: You can use CLP commands to obtain recommendations, and in some cases take actions, to resolve this alert.

From the CLP, you can obtain the Health indicator description and recommended actions by executing the following commands:

• GET RECOMMENDATIONS FOR HEALTH INDICATOR Health-Indicator-Short-Name
• GET DESCRIPTION FOR HEALTH INDICATOR Health-Indicator-Short-Name

ADM10513I Automatic Utility-Name has completed on table Table-Name in database Database-Name with a return code of SQL-Return-Code. The utility started at Start-Timestamp and completed at End-Timestamp.

ADM10514I Automatic BACKUP has completed on database Database-Name with a return code of SQL-Return-Code. The utility started at Start-Timestamp and completed at End-Timestamp. The timestamp for the backup image is Backup-Image-Timestamp.

ADM10515I The automatic maintenance policy Policy-Name has been updated in database Database-Name. The policy options have been updated from Original-Policy-Options-List to New-Policy-Options-List.

ADM10516I The automatic maintenance policy Policy-Name has been updated in database Database-Name. The options now being used for this policy are: Policy-Options-List.
Chapter 22. ADM11000 - ADM11499

ADM11000E DB2 is unable to create or attach to the memory segment used for fenced routine communications. Decrease the amount of database shared memory used by your instance, and retry.

ADM11001E DB2 did not create a memory segment for running fenced routines. This was specified by the use of DB2_FMP_COMM_HEAP_SZ registry variable.

ADM11002E Insufficient shared memory available for communication with the db2fmp process. Use the DB2_FMP_COMM_HEAP_SZ registry variable to increase the amount of shared memory available for fenced routines.

ADM11003E DB2 failed to create the memory segment used for communication with fenced routines. If restarting DB2, ensure that no db2fmp processes are active on the instance prior to start. Otherwise, you can adjust the value through the DB2_FMP_COMM_HEAP_SZ registry variable, or you can decrease the value of ASL_HEAP_SZ in the database manager configuration.
Chapter 23. ADM11500 - ADM11999

ADM11500W MQListener generated a message.
Message code = MQL-msgcode. Refer to the documentation for information about the message.
Chapter 24. ADM12000 - ADM12499

ADM12000C  DB2START processing failed; a valid product license was not found. If you have licensed this product, ensure the license key is properly installed. You can install the license using the db2licm command. The license file can be obtained from your licensed product CD.

User response:

ADM12001C  DB2 connect processing failed; a valid product license was not found. If you have licensed this product, ensure the license key is properly installed. You can install the license using the db2licm command. The license file can be obtained from your licensed product CD.

User response:

ADM12002C  Connect processing failed; a valid product license was not found. If you are accessing host or iSeries database server, make sure you have a licensed DB2 Connect product or DB2 Connect server support component installed. DB2 Connect server support component is included in DB2 Enterprise edition.

User response:

ADM12006E  The product product-name does not have a valid license key registered. If you have licensed this product, ensure the license key is properly registered. You can register the license using the db2licm command. The license key can be obtained from your licensed product CD. If a license key is not registered, this product will be enabled for a num-days day evaluation period. Use of the product for the evaluation period constitutes acceptance of the terms of the IBM license agreement located in the installation path of this product in the license directory.

User response:

ADM12007E  There are num-days day(s) left in the evaluation period for the product product-name. For evaluation license terms and conditions, refer to the IBM License Acceptance and License Information document located in the license directory in the installation path of this product. If you have licensed this product, ensure the license key is properly registered. You can register the license using the db2licm command line utility. The license file can be obtained from your licensed product CD.

User response:

ADM12008E  The product product-name does not have a valid license key installed and the evaluation period has expired. Functions specific to this product are not enabled. If you have licensed this product, ensure the license key is properly installed. You can install the license using the db2licm command. The license file can be obtained from your licensed product CD.

User response:

ADM12009E  The number of concurrent users of the DB2 Workgroup product has exceeded the defined entitlement of entitlement. Concurrent user count is user-count. You should purchase additional user based entitlements from your IBM representative or authorized dealer and update your license using the db2licm command.

User response:

ADM12010E  The number of concurrent users of the DB2 Connect product has exceeded the defined entitlement of entitlement. Concurrent user count is user-count. You should purchase additional user based entitlements from your IBM representative or authorized dealer and update your license using the db2licm command.

User response:
ADM12011C One or more database partitions does not have a valid DB2 license key installed for the product-name product. Install a valid license key on each physical partition using the db2licm command.

User response:

ADM12012E The number of concurrent users of the DB2 Enterprise product has exceeded the defined entitlement of entitlement. Concurrent user count is user-count. You should purchase additional user based entitlements from your IBM representative or authorized dealer and update your license using the db2licm command.

User response:

ADM12013E The number of concurrent database connections to the DB2 Connect product has exceeded the defined entitlement of entitlement. Database connection count is num-connections.

User response:

ADM12014C The version of the DB2 Connect product you are using is not licensed for use with TCP/IP protocol. Upgrade to a full function DB2 Connect product to use TCP/IP.

User response:

ADM12015C The version of the DB2 Connect product you are using is not licensed for updating multiple databases in the same transaction. Upgrade to a full function DB2 Connect product to update multiple databases in the same transaction.

User response:

ADM12017E The number of processors on this machine exceeds the defined entitlement for the product product-name. The number of processors on this machine is num-cpu.

Explanation: You can purchase DB2 Connect and DB2 database products either per processor (priced by Processor Value Unit (PVU)) or per user. If you purchase your DB2 database product license per processor, you will see License Type: "CPU Option" in the License Center or in the output from the command "db2licm -l". Prior to DB2 V9.5 Fix Pack 4, this message is returned by DB2 Connect and DB2 database products when it is determined that there are more processors on the current machine than are entitled to be used with the named product. The DB2 product will continue to function even when this message is returned. However, using the DB2 product with more processors than the defined entitlement allows will cause problems with business audit processes and will complicate support processes, if you need to access IBM support.

This message is not returned by DB2 Connect and DB2 database products starting with DB2 V9.5 Fix Pack 4 and later because the DB2 product will only use the machine resources for which it is licensed to use.

User response:

1. Purchase additional processor-based entitlements from your IBM representative or authorized dealer.
2. Update your license using the db2licm command.

ADM12018E The number of concurrent users for this product has exceeded the defined entitlement of entitlement. Concurrent user count is user-count. You should purchase additional user based entitlements from your IBM representative or authorized dealer and update your license using the db2licm command.

User response:

ADM12020E The number of connectors has exceeded the defined entitlement of entitlement. Current number of connectors is num-connectors. You should purchase additional connector entitlements from your IBM representative or authorized dealer and update your license using the db2licm command.

User response:

ADM12022E DB2 has detected that database partitioning feature is being used without database partitioning license. Purchase database partitioning entitlements from your IBM representative or authorized dealer and update your license using the db2licm command.

User response:

ADM12023E The number of concurrent users of product-name product has exceeded the defined entitlement of entitlement. Concurrent user count is user-count. You should purchase additional user based entitlements from your IBM representative or authorized dealer and update your license using the db2licm command.

User response:
ADM12024E A valid license key was not found for the requested function. The current license key for product_name product does not allow the requested functionality. Purchase the license key for this function from your IBM representative or authorized dealer and update your license using the db2licm command.

User response:

ADM12025E The amount of memory on this machine exceeds the defined limit of limit (MB) for the product product-name. The amount of memory on this machine is memory (MB).

Explanation: This product has a defined memory limit that has been exceeded. The memory limit cannot be changed via DB2 licensing tools.

User response: Contact your IBM representative or authorized dealer to obtain a product that can be licensed to run on this system.

ADM12026W The DB2 server has detected that a valid license for the product product-name has not been registered.

Explanation: Registration of a valid license key is required in order to comply with the terms and conditions of your License Agreement. The license keys for this product are located on this product's activation CD in the 'license' directory.

User response: Use the db2licm command (Run db2licm -a license-file-name from sqllib\bin on Windows or sqllib/adm on Unix and Linux) to register the appropriate licenses that you have purchased. The License Agreement text is located in the 'license' directory in the installation directory of this product.

ADM12027E The amount of memory on this server now exceeds the defined limit of limit (GB) for the product product-name. The amount of memory on this server is memory (GB).

Explanation: The DB2 instance is attempting to use more memory allocated for DB2 than specified in your product license. DB2 limits itself to the licensed amount of memory.

User response: To take full advantage of your server's memory capacity, contact your IBM representative or authorized dealer to obtain an edition of DB2 with a higher licensed memory limit.
Chapter 25. ADM12500 - ADM12999

ADM12500E The HADR standby database cannot be made consistent with the primary database. The log stream of the standby database is incompatible with that of the primary database. To use this database as a standby, it must be recreated from a backup image or split mirror of the primary database.

ADM12501E Unable to establish HADR primary-standby connection because the operating systems do not match the primary and standby databases. Move the primary or standby databases to a different host or upgrade the operating system of one host to match the other host.

ADM12502E Unable to establish HADR primary-standby connection because the DB2 versions do not match the primary and standby databases. Upgrade the DB2 software to the same release and FixPak on either the HADR primary or HADR standby database to match the other.

ADM12503E Unable to establish HADR primary-standby connection because the DB2 bit level (32-bit vs. 64-bit) do not match the primary and standby databases. Change the bit level of the primary or standby database to match each other.

ADM12504E Unable to establish HADR primary-standby connection because the value of HADR_REMOTE_INST at one of the instances does not match the actual instance name of the other instance. This is a sanity check to ensure that only the intended database pairing occurs. If any of the HADR_REMOTE_INST configuration parameters or instance names is set incorrectly, you may correct it and try again to start HADR.

ADM12505E Unable to establish HADR primary-standby connection because the database names do not match. Correct the database name so it matches on the HADR primary and HADR standby.

ADM12506E Unable to establish HADR primary-standby connection because the primary and standby databases did not originate from the same database. Recreate the standby from a backup image or split mirror of the primary database.

ADM12507E Unable to establish HADR primary-standby connection because the HADR configuration parameters do not match. Change the configuration parameters HADR_TIMEOUT and HADR_SYNCHMODE on either the HADR primary or standby so that they match the other system's values, and ensure that HADR_LOCAL_HOST and HADR_REMOTE_HOST match the host name of the local and remote machines.

ADM12508W Log receiving has been suspended on the HADR standby database because of a disk full condition. If the primary and standby databases are in peer state and in SYNC, NEARSYNC, or ASYNC HADR synchronization mode, transactions on the primary might be blocked.

Explanation: The standby database is unable to receive any more log data from the primary database because of a disk full condition on the standby. The standby frees disk space automatically after it finishes replaying logs, as long as the logs are archived on the primary and there are no uncommitted transactions started in or before the given log file.

User response: One of the following:
- Wait for the standby to catch up with the primary. Log receiving will resume on the standby as old logs are released after they have been replayed on the standby and archived on the primary.
- Provide more disk space on the standby for logs. Do not delete any logs because DB2 handles that automatically.

If the primary was blocked because of a disk full situation on the standby, consider using the SUPERASYNCH HADR synchronization mode to avoid encountering this error in the future.

ADM12509E HADR encountered an abnormal condition. Reason code: reason-code
ADM12509E

**Explanation:** The explanation corresponding to the reason code is:

1. The HADR primary database cannot find a log file that was requested by the standby. HADR will attempt to recover from the condition by disconnecting and then reconnecting the primary and the standby. Each reconnection will attempt to access the file. These retry attempts will help avoid transient errors such as a conflict with other log file usage.

2. The HADR standby received a bad log page. HADR will attempt to recover from the condition by disconnecting and then reconnecting the primary and standby. These retry attempts will help avoid transient errors.

3. The HADR primary has broken its connection to the standby because the primary reach its peer limit. This condition indicates that the standby or network cannot keep up with the primary’s workload. The primary has disconnected from the standby to unblock itself. After the standby has replayed the logs it received, it will reconnect to the primary and the pair will start from remote catchup state, which does not block primary log writing.

4. The HADR standby is shutting down because its log writing disk is full and it cannot reclaim any space. The standby log device is not large enough to hold the logs produced by the primary.

5. The HADR standby was unable to access the needed log file or log files. Possible causes of the access failure include user removal of log files, or I/O errors on the log device. The HADR standby automatically manages log files, so always ensure that they are not manually removed or altered. The HADR standby will attempt to recover from the condition by starting remote catch up from the missing log file.

6. Detected another primary database.

7. The standby database is shutting down after repeated failures to start the replay member in DB2 pureScale environment.

8. In a DB2 pureScale environment, an address listed in hadr_target_list does not actually belong to the remote cluster.

9. HADR does not support column-organized tables.

10. A previous takeover by force was performed on this standby database but it did not complete.

99. Fatal error encountered. The database is shutting down.

**User response:** Either re-create the standby using a newer backup image from the primary, or follow the user response corresponding to the reason code:

1. If the attempts to access the log file keep failing, check the db2diag.log file for the file number and determine why the file cannot be found. This can occur if the file is very old and has been removed from the archive, or if there has been a media failure. Depending on the cause, possible responses are:
   - Put the file back in the log path or archive.
   - Repair the media that failed.

2. If the error condition persists, determine the root cause, make the appropriate corrections, and attempt to start HADR on the database.

3. One of the following actions:
   - Increase the setting for the DB2_HADR_PEER_WAIT_LIMIT registry variable.
   - Reduce the workload on the primary.
   - Tune or upgrade the network.
   - Tune or upgrade the standby.

4. Increase the log device capacity and restart the standby.

5. The standby should be able to recover by requesting the files from the primary. If the error condition persists, determine the root cause, and make the appropriate corrections.

6. Determine which database should be the primary. Drop the other primary database or...
try converting it to a standby. If both should be primary, they should be removed from each other's hadr_target_list, so that they are independent.

7
Determine the cause of the failures, correct the problem, then restart the standby database. If the problem is limited to a particular member, you can designate another member as the preferred replay member by running the START HADR command with the AS STANDBY option on another member.

8
This is not a fatal error. HADR remains functional. Remove the bad address from the hadr_target_list at the earliest convenient moment.

9
If you still want to use HADR, drop any column-organized tables on the primary database, and then reinitialize the standby database.

10
Do one of the following:
- Reissue takeover by force to complete the takeover.
- Deactivate the database, stop HADR, and then roll forward the database to convert it into a standard database.
- Deactivate, then drop the database. Re-create it as a standby if needed.

99
Determine the root cause, make the appropriate corrections, and attempt to start the database.

ADM12510E Unable to establish HADR primary-standby connection. Reason code: reason-code

Explanation: The explanation corresponding to the reason code is:

1
The settings for the hadr_remote_host and hadr_remote_service configuration parameters on the remote database do not match the settings for the hadr_local_host and hadr_local_service configuration parameters on the local database.

2
The settings for the hadr_remote_host and hadr_remote_service configuration parameters on the local database do not match the settings for the hadr_local_host and hadr_local_service configuration parameters on the remote database.

3
The hadr_target_list configuration parameter is not configured on all of the HADR databases.

4
The local database cannot be started as an HADR standby because its hadr_target_list configuration parameter setting does not specify the HADR primary database's local host and service names.

5
The setting for the hadr_timeout configuration parameter is not the same on the local and the remote databases.

6
The setting for the hadr_syncmode configuration parameter is not the same on the local and the remote databases.

7
The setting for the hadr_peer_window configuration parameter is not the same on the local and the remote databases.

8
Delayed replay cannot be enabled because the standby database is not running in superAsync synchronization mode. When you have the hadr_target_list configured, the effective synchronization mode of the principal standby is determined by the setting of the hadr_syncmode configuration parameter on the primary.

User response: The user response corresponding to the reason code is:

1
On the remote database, set the hadr_remote_host configuration parameter to the local database's local host name (specified by the hadr_local_host configuration parameter) and set the hadr_remote_svc configuration parameter to the local database's local service name (specified by the hadr_local_host configuration parameter).

2
On the local database, set the hadr_remote_host configuration parameter to the remote database's local host name (specified by the hadr_local_host configuration parameter) and set the hadr_remote_svc configuration parameter to the remote
database's local service name (specified by the hadr_local_host configuration parameter).

3

Ensure that the hadr_target_list configuration parameter is configured on all of the HADR databases or not configured on any of the HADR databases.

4

Ensure that the local database specifies the HADR primary database's local host and service names in its hadr_target_list setting.

5

Ensure that the setting for the hadr_timeout configuration parameter is the same on all HADR databases.

6

Ensure that the setting for the hadr_syncmode configuration parameter is the same on the primary and standby HADR databases.

7

If you have multiple standbys configured, ensure that the hadr_replay_delay configuration parameter is configured on an auxiliary standby.

ADM12511W  The HADR standby database was not able to access the log archive when attempting to retrieve log file log-file-name.

Explanation: An error occurred when the standby database attempted to retrieve a log file from the log archive. This error is not fatal. The standby database will attempt to acquire the file from the primary database by entering remote catchup state.

User response: Investigate why the standby database is not able to access the log archive:

• Make sure that LOGARCHMETH1 and LOGARCHMETH2 are configured correctly.
• Make sure that the standby machine and instance owner can access the log archive device.
• Make sure that the archive contains log files on the correct log chain.

It is important to resolve this issue, especially if this database might have to perform takeover to become a primary database in the future. After it is a primary database, it must be able to access the archive device to avoid running out of disk space in the active log path.

ADM12512W  Log replay on the HADR standby has stopped on table space tablespace_name (ID tablespace_id) because it has been put into tablespace_state state.

Explanation: The standby database can no longer replay log records on this table space due to error. Data in this table space will not be available if this database takes over the primary role. The standby database will continue replaying logs shipped from primary on other table spaces.

User response: Investigate and resolve the possible causes, such as:

• File system is not mounted.
• The standby is unable to access some containers, or the container is not big enough.
• The standby is unable to locate or access a load copy image.

ADM12513E  Unable to establish HADR primary-standby connection because HADR configurations are incompatible on primary and standby. Reason code: reason-code

Explanation:

1

The settings for the hadr_local_host and hadr_local_svc configuration parameters on the local database must match the settings for the hadr_remote_host and hadr_remote_svc configuration parameters on the remote database.

2

The settings for the hadr_local_host and hadr_local_svc configuration parameters on the remote database must match the settings for the hadr_remote_host and hadr_remote_svc configuration parameters on the local database.

3

At least one of the HADR databases does not have its hadr_target_list configuration parameter set. With the hadr_target_list parameter, all of the participating databases must have it set or unset.

4

The hadr_target_list configuration parameter on the local database does not include entries that correspond to the hadr_local_host and hadr_local_svc configuration parameter settings for the remote database members.
The local log stream ID does not match the remote log stream ID.

The local database member ID does not match the remote database member ID.

The setting for the hadr_timeout configuration parameter on the local database must match the hadr_timeout setting on the remote database.

If the hadr_target_list configuration parameter is not configured on your HADR databases, the setting for the hadr_syncmode configuration parameter on the local database must match the hadr_syncmode setting on the remote database.

The hadr_replay_delay configuration parameter is set to a non-zero value on the standby, but the effective synchronization mode (which derived from the setting on the primary) is not SUPERASYNC.

The setting for the hadr_peer_window configuration parameter on the local database must match the hadr_peer_window setting on the remote database.

The primary and standby database types are incompatible; for example, if one of the databases uses the DB2 pureScale feature, the other must as well.

The primary and standby database topologies are incompatible. The two databases must have same number of members and each pair of primary-standby matching members must have same member id and log stream id. HADR cannot be set up if the two databases do not meet this requirement.

The two databases are incompatible because they do not have the same replay type (physical replay).

Other incompatibility errors.

**User response:** Refer to the explanation of the error message that follows this message and take any needed corrective action.
Configure the hadr_peer_window configuration parameter to the same value on the primary and standby databases.

Use the same database type for both the HADR primary and the HADR standby.

Reinitialize the standby with a backup or split mirror image from the primary so that standby has the same topology as the primary.

Use the physical replay type.

Generic incompatibility error. See the db2diag.log for more information.

ADM12514E Log replay on the HADR standby database has stopped because member member-id was added on the HADR primary but has not been added on the standby. The standby database has been deactivated due to this error.

Explanation: When a member is added to the HADR primary, it must also be added to the standby or the standby will be deactivated.

User response: Add the new member on the standby, then reactivate the database on the standby to restart log replay. You should also ensure that the hadr_local_host and hadr_local_svc configuration parameters have been set on the new member.

ADM12515E The HADR primary and standby databases are no longer compatible because the primary database has fewer members than the standby.

Explanation: This can occur in the following scenarios:

- A member was dropped on the primary.
- A member was added on the primary; then a forced takeover happened before the add member event was replicated to the standby; then the old primary attempted to reintegrate as a new standby, but it has more members than the new primary.

User response:

1. Cause the instance of the primary database to have the same number of members as the instance of the standby database by performing one of the following actions:
   - Add another member to the instance of the primary database.
   - Drop a member from the instance of the standby database.
Chapter 26. ADM13000 - ADM13499

ADM13000E Plug-in plugin-name received error code error-code from the GSS (Generic Security Service) API GSS-API-name with the error message error-message.

ADM13001E Plug-in plugin-name received error code error-code from the DB2 security plug-in API GSS-API-name with the error message error-message.

ADM13002E Unable to unload plug-in plugin-name. No further action is required.

ADM13003E The principal name principal-name used for plugin-name is invalid. Ensure that the principal name is valid and that it is in a format that is recognized by the security plug-in.

ADM13004E The plug-in name plugin-name is invalid. Ensure that a valid plug-in name is specified.

ADM13005E Unable to load plug-in plugin-name. Verify that the plug-in exists and that the directory location and file permissions are valid.

ADM13006E Plug-in plugin-name encountered an unexpected error. Contact IBM Support for assistance.
Chapter 27. ADM13500 - ADM13999

ADM13500E An agent executing an asynchronous background task processor encountered an unrecoverable error. The task processor has been suspended and diagnostic information was written to the db2diag log file. Contact IBM Support for assistance. The task processor context is address. The task processor description is description.
Chapter 28. ADM14000 - ADM14499

ADM14000E  DB2 is unable to open diagnostic log file filename. Run the command "db2diag -rc rcList" to find out more.

ADM14001C  An unexpected and critical error has occurred: error-type. The instance may have been shutdown as a result. capture-type FODC (First Occurrence Data Capture) has been invoked and diagnostic information has been recorded in directory directory-name. Please look in this directory for detailed evidence about what happened and contact IBM support if necessary to diagnose the problem.

ADM14002C  capture-type FODC has been invoked for symptom error-type and diagnostic information has been recorded in directory directory-name. Please look in this directory for detailed evidence about what happened and contact IBM support if necessary to diagnose the problem.

ADM14003W  FODC has been invoked by the user from db2fodc tool for symptom symptom and diagnostic information has been recorded in directory directory-name. Please look in this directory for detailed evidence about what happened and contact IBM support if necessary to diagnose the problem.

ADM14004C  EDU Database database-name marked bad. capture-type FODC has been invoked and diagnostic information has been recorded in directory parameter. Please look in this directory for detailed evidence about what happened and contact IBM support if necessary to diagnose the problem.

ADM14005E  The following error occurred: symptom. First Occurrence Data Capture (FODC) has been invoked in the following mode: capture-mode. Diagnostic information has been recorded in the directory named directory-name.

Explanation: First occurrence data capture (FODC) is a general term applied to the set of diagnostic information the DB2 administration server captures automatically when errors occur.

ADM14006C  The DB2 database manager cannot recover from the failure. First Occurrence Data Capture (FODC) was invoked in the following mode: capture-type. FODC diagnostic information is located in the following directory: directory-name.

Explanation: First occurrence data capture (FODC) is a general term applied to the set of diagnostic information the DB2 administration server captures automatically when errors occur.

ADM14007W  If at all possible, wait until the DB2 instance is no longer accessed by any applications before issuing the db2_kill command. db2_kill may result in crash recovery processing upon subsequent db2start.

ADM14008C  The DB2 engine on all supported platforms has trap resilience capabilities that enable it to respond to certain code traps or segmentation violations in order to keep the DB2 instance running.

Explanation: First occurrence data capture (FODC) is a general term applied to the set of diagnostic information the DB2 administration server captures automatically when errors occur.

ADM14009W  This message is returned when a trap is caused by a critical error from which the database manager cannot recover.
recover, despite trap resilience being enabled. The DB2 database manager will stop the instance.

User response:
1. Collect the FODC diagnostic information from the named directory.
2. Contact IBM Software Support to diagnose the problem.

ADM14012C

A critical failure has caused the following type of error: error-type. The DB2 database manager will attempt to recover from the failure. First Occurrence Data Capture (FODC) was invoked in the following mode: capture-type. FODC diagnostic information is located in the following directory: directory-name.

Explanation: First occurrence data capture (FODC) is a general term applied to the set of diagnostic information the DB2 administration server captures automatically when errors occur. For more information about FODC, refer to the topic called "First occurrence data capture (FODC)" in the DB2 Information Center.

The DB2 engine on all supported platforms has trap resilience capabilities that enable it to survive certain code traps or segmentation violations in order to keep the DB2 instance running. For more information about sustained traps, refer to the topic called "Recovering from sustained traps" in the DB2 Information Center.

This message is returned when a trap is caused by a critical error, and the DB2 database manager will attempt to recover from the failure because trap resilience is enabled.

The DB2 database manager will stop the instance.

User response: Although the DB2 database manager will attempt to recover from the failure, it is important to diagnose why the failure happened by performing the following steps:
1. Collect the FODC diagnostic information from the named directory.
2. Contact IBM Software Support to diagnose the problem.

ADM14013C

The following type of critical error occurred: error-type. This error occurred because one or more threads that are associated with the current DB2 instance have been suspended, but the instance process is still running. First Occurrence Data Capture (FODC) was invoked in the following mode: capture-type. FODC diagnostic information is located in the following directory: directory-name.

Explanation: First occurrence data capture (FODC) is a general term applied to the set of diagnostic information the DB2 administration server captures automatically when errors occur. For more information about FODC, refer to the topic called "First occurrence data capture (FODC)" in the DB2 Information Center.

For more information about how the DB2 database manager uses operating system threads and processes, refer to the topic called "The DB2 process model" in the DB2 Information Center. For more information about sustained traps, refer to the topic called "Recovering from sustained traps" in the DB2 Information Center.

User response:
1. To terminate all active applications which issue a COMMIT or ROLLBACK within the timeout period, which minimizes the recovery window for crash recovery when the db2start command is run, issue the following command:
   db2 quiesce instance <instance_name>
   user <user_name>
   defer with timeout <minutes>

2. [Optional] To terminate any applications that did not COMMIT or ROLLBACK during the timeout period in Step 1 and any new applications which accessed the database after the timeout period completed, issue the following command:
   db2 quiesce instance <instance_name>
   user <user_name>
   immediate

3. Forcefully shut down the instance and suspended EDUs by executing the following command:
   db2_kill

Note: Issuing the db2stop command will not complete when an instance has sustained a trap.

4. Restart the DB2 instance using either one of the following commands:
   db2start
   or
   START DATABASE MANAGER

ADM14014C

An unexpected and critical error has occurred: error-type. This error might affect the availability of the resource-or-service-name resource or service on member member-id.

Explanation: One or more DB2 threads encountered an unexpected error, but the DB2 member is still running. The error might affect the availability of the specified resource or service for the affected database. The database is still available; however, it might not provide optimal service, especially if applications have a dependency on the specified resource or service.

User response: To restore the stability of the database, stop all applications on this member and force a restart of the DB2 instance on this member with the following commands:
1. `db2stop member <member-id>`
   
   `quiesce <timeout_minutes>`

   Existing applications have up to `<timeout_minutes>` to reach the next commit or rollback point before being forced off. After the specified `<timeout_minutes>`, all remaining applications are terminated.

2. `db2start member <member-id>`

   Look in the DIAGPATH for the affected DB2 member for any additional evidence about what has occurred and, if required, contact IBM Software Support to diagnose the problem.
Chapter 29. ADM14500 - ADM14999

ADM14500E Unable to allocate memory required for deferred index cleanup on table schema.table. If you wish to use immediate cleanup rollout for the statement, either set the DB2_MDC_ROLLOUT registry variable to ON, or use the CURRENT ROLLOUT MODE special register, and rerun the statement.
Chapter 30. ADM15000 - ADM15499

ADM15000E The file logfileName is not accessible for reading. Verify the access permissions for this file and its associated device.

ADM15001E An error was returned trying to access file logfileName. Make sure that the file exists and that the device or file is accessible.
Chapter 31. ADM15500 - ADM15999

ADM15500E An index data inconsistency is detected on table schema-name.table-name during INSPECT command. Please contact DB2 support team to report the problem.

ADM15501W The administrative task scheduler encountered a temporary resource constraint that prevented the execution of task task-id. The scheduler will retry every retry-interval seconds.

ADM15502W The administrative task scheduler could not execute task task-id because the database is inactive.

ADM15503E The administrative task scheduler detected a security error on database database-name. No scheduled tasks will be executed on this database. To resume task execution, drop the SYSTOOLS.ADMINTASKS and SYSTOOLS.ADMINTASKSTATUS table, and recreate all the scheduled tasks on this database using the SYSPROC.ADMIN_TASK_ADD stored procedure.

ADM15510E The INSPECT command found inconsistent row contents in a block in the multidimensional clustering (MDC) table named schema-name.table-name.

Explanation: In the context of MDC tables, a block is a set of contiguous pages on disk. In MDC tables, rows of table data that contain the same indexes are clustered together on disk, in these blocks, to facilitate faster searching and improved performance.

The INSPECT command was verifying the block indexes of the named table, and discovered rows in one or more blocks that are not valid according to the block index entries. This can happen for several reasons, including disk error or data corruption.

User response: Refer to the db2diag log file for more information about this error.

Contact IBM software support for assistance.
Chapter 32. ADM16000 - ADM16499

Following an attach operation, a SET INTEGRITY...ALL IMMEDIATE UNCHECKED statement running against a partitioned table that has a nonpartitioned index defined on it executes as though it were a SET INTEGRITY...ALLOW WRITE ACCESS IMMEDIATE CHECKED statement. The SET INTEGRITY operation updates the index to include data for the newly attached partition. It also performs constraints checking, range validation, and maintenance of any other nonpartitioned indexes that are defined on the table.
Chapter 33. ADM16500 - ADM16999

ADM16500E The specified member subset references a member that does not exist in the instance. Member subset: subset_name. Member: member_id.

Explanation: A member subset references a member that does not exist in the instance. The member subset definition was adjusted in-memory to exclude the specified member. The member subset definition in the system catalogs was not modified.

User response: Either remove the member from the member subset, or drop the member subset. To remove the member from the member subset definition, use system routine SYSPROC.WLM_ALTER_MEMBER_SUBSET. To drop the member subset, use system routine SYSPROC.WLM_DROP_MEMBER_SUBSET.

ADM16501E The specified exclusive member subset does not include any members that exist in member subset member-subset-token.

Explanation: The in-memory definition of exclusive member subset does not contain any members that exist in the instance. The in-memory definition of the subset was adjusted; the subset was disabled. Connections assigned to this member subset are rejected with SQLCODE SQL1717N. The system catalog definition of the subset is not modified.

User response: To add members which exist in the instance to the member subset definition, use the SYSPROC.WLM_ALTER_MEMBER_SUBSET system routine. Alternatively, to drop the member subset, use the SYSPROC.WLM_DROP_MEMBER_SUBSET system routine.

ADM16502I The specified database alias used by the member subset is not cataloged in the system database directory. The database manager will catalog the database alias. Database alias: database_alias. Member subset: member_subset.

Explanation: The database alias is managed by a member subset but is not currently cataloged in the system database directory. The database manager will automatically catalog this database alias. Applications can connect to the database alias and be assigned to the member subset. The definition of a member subset can be viewed by querying the system catalog view SYSCAT.MEMBERSUBSETS.

User response: No action required.

ADM16503E An attempt to automatically catalog the specified database alias by the database manager has failed. Database alias: database_alias. Member subset: member_subset. SQLCODE: sqlcode.

Explanation: An attempt was made by the database manager to catalog a database alias that is managed by a member subset. The attempt failed. Connections to the database alias will fail to resolve the database.

User response: Explicitly catalog the database alias using the CATALOG DATABASE DATABASE_NAME AS DATABASE_ALIAS command. Alternatively, to drop the member subset, use system routine SYSPROC.WLM_DROP_MEMBER_SUBSET.
Part 3. AMI Messages
Chapter 34. AMI0000 - AMI0499

AMI0016E  Insufficient memory.
Explanation: There is not enough memory available to complete the requested operation.
User response: Make sure that sufficient memory is allocated and available for the Message Query (MQ), MQ Application Messaging Interface (AMI), and DB2 programs.

AMI0018E  Service not found.
Explanation: The specified service is not found. The request is not completed. The service might be one of the following:
• sender
• receiver
• distribution list
• publisher
• subscriber
User response: Make sure that the Application Messaging Interface (AMI) repository file that you used contains the service definition.

AMI0019E  Message not found.
Explanation: The specified message is not found. The request is not completed.
User response: Make sure that the message is available for use.

AMI0020E  Policy not found.
Explanation: The specified policy is not found. The request is not completed.
User response: Make sure that the Application Messaging Interface (AMI) repository file that you used contains the policy definition.

AMI0035E  No message available.
Explanation: No message is available for a receive request after the specified wait time. This happens when the target queue is empty.
User response: Make sure that the message is present in the target queue.

AMI0049E  Transport error.
Explanation: The underlying (MQSeries) message transport layer is reporting an error. You can obtain the message transport reason code by the secondary reason code value returned from a GetLastError request for the specific AMI object. For more information, see "Common causes of problems" in Application Messaging Interface.
User response: Make sure that you have created the underlying MQ objects (system queues, user queues, among others) to which the Application Messaging Interface (AMI) service or policy is referring. Notice that the names of these objects are case sensitive. A queue named q1 is not the same as Q1. Also, ensure that the attributes of the queue are sufficient to handle the message. For example, check that MAXMSGL is big enough to handle the message size. If Publish or Subscribe functions fail, make sure that the MQ message broker is started.

AMI0109E  User is not authorized.
Explanation: The user is not authorized by the underlying transport layer to perform the specified request.
User response: Make sure that the user of the UDFs has the appropriate authorization. This normally means that the user ID has to be a member of group mqm.

AMI0110E  Transport is not available.
Explanation: The underlying transport layer is not available.
User response: Make sure that the queue manager is running.

AMI0402E  Host file not found.
Explanation: A local host file with the specified name is not found.
User response: Make sure that file amthost.xml exists and in the right directory.

AMI0405E  The policy is not in the repository.
Explanation: You created a policy using a definition name that is not found in the repository. The policy is created using default values.
User response: Make sure that the Application Messaging Interface (AMI) policy is defined in the repository file.

AMI0406E  The sender is not in the repository.
Explanation: You created a sender using a definition name that is not found in the repository. The sender is created using default values.
User response: Make sure that the Application Messaging Interface (AMI) sender service is defined in the repository file.

Explanation: You created a receiver using a definition name that is not found in the repository. The receiver is created using default values.

User response: Make sure that the Application Messaging Interface (AMI) receiver service is defined in the repository file.

Explanation: You created a publisher using a definition name that is not found in the repository. The publisher is created using default values.

User response: Make sure that the Application Messaging Interface (AMI) publisher service is defined in the repository file.

Explanation: You created a subscriber using a definition name that is not found in the repository. The subscriber is created using default values.

User response: Make sure that the Application Messaging Interface (AMI) subscriber service is defined in the repository file.

Explanation: An error was returned when initializing or accessing the repository. This can occur for any of the following reasons:

- The repository XML file (for example, amt.xml) contains data that is not valid.
- The DTD file (*.dtd) is not found or contains data that is not valid.
- The files that are needed to initialize the repository can not be found. These file are usually in the directory intlFiles and the directory locales.

User response: This is generally the result of XML parser errors. Make sure that the right amt.dtd file is used and that it matches with the amt.xml file.

Explanation: An error occurred loading the transport library.

User response: Make sure that MQSeries and the AMI libraries are installed correctly. There are sample programs shipped with MQ and AMI that can be used to verify the successful installation of this software.

Explanation: An AMI dtd file (amt.dtd) is not found with the XML repository file in the same directory.

User response: Make sure that the file amt.dtd is in the same directory as the repository file amt.xml. You can define the location with the environment variable AMT_DATA_PATH.

Explanation: An error was returned when initializing or accessing the repository. This can occur for any of the following reasons:

- The repository XML file (for example, amt.xml) contains data that is not valid.
- The DTD file (*.dtd) is not found or contains data that is not valid.
- The files that are needed to initialize the repository can not be found. These file are usually in the directory intlFiles and the directory locales.

User response: This is generally the result of XML parser errors. Make sure that the right amt.dtd file is used and that it matches with the amt.xml file.

Explanation: The repository file is not found.

User response: Make sure that the repository file is in the default location or in the path specified by environment variable AMT_DATA_PATH.
Part 4. Replication Messages
Chapter 35. ASN0000 - ASN0499

**ASN0004E**  
**CAPTURE capture_schema.** The Capture program could not start the trace. The return code is `return_code`. The reason code is `reason_code`.

**Explanation:** An error occurred when the START TRACE DB2 command was issued, or when the Capture program read the DB2 log.

**User response:** See the DB2 Codes section in the messages and codes documentation of the DB2 database manager on your operating system to find the appropriate reason code. For more information, see either of the following administration documentation:
- the Call Attachment Facility (CAF) for START TRACE DB2 errors, or
- the Instrumentation Facility Interface (IFI) for DB2 log read errors, or
- contact your DBA. If the CAF or the IFI returned a message, it is also printed on the system display console.

**ASN0005E**  
**CAPTURE capture_schema.** The Capture program encountered an error when reading the DB2 log. The log sequence number is `lsn`, the SQLCODE is `sql_return_code`, and the reason code is `reason_code`.

**Explanation:** An error occurred when the Capture program read the DB2 log. There might be an SQL error.

- For DB2 Replication, the `sqlcode` value is for the Asynchronous Read Log API.
- For Capture for VSE, the `sqlcode` is for the VSE/VSAM GET macro.
- For Capture for VM, the `sqlcode` is for Diagnose X’A4’.

**User response:** See the DB2 Codes section in the messages and codes documentation of the DB2 database manager on your operating system for the appropriate reason code, as suggested in the following list:
- For Capture program for z/OS, see the Instrumentation Facility Interface (IFI) section in the administration documentation of the DB2 database manager on your operating system, or contact your DBA.
- For Capture for VSE, see the VSE/VSAM Commands and Macros, VSE/ESA System Macro Reference, and VSE/ESA V2R3 Messages and Codes manuals for more information.
- For VM/ESA, see the VM/ESA Programming Services for more information.

**ASN0006E**  
**CAPTURE capture_schema.** The Capture program encountered an unexpected log error of unknown log variation.

**Explanation:** An unexpected log error occurred when the Capture program was processing the DB2 log records, and was not reported by either of the following interfaces:
- The Instrumentation Facility Interface (IFI) for Capture program for z/OS
- The Asynchronous Read Log API for the Capture program

The Capture program could not determine which type of SQL update was associated with the log record.

**User response:** Contact IBM Software Support.

**ASN0008I**  
**CAPTURE capture_schema.** The Capture program was stopped.

**Explanation:** The Capture program has stopped.

**User response:** This message is for your information only, and no action is required.

**ASN0009E**  
**CAPTURE capture_schema.** The registered source table `src_owner.src_table` does not have the DATA CAPTURE CHANGES attribute.

**Explanation:** When attempting to initialize a registration, the Capture program encountered a source table that is incorrectly defined. The Capture program cannot process the log records associated with a source table if the DATA CAPTURE CHANGES attribute of the source table is not set. This message is issued during a Capture program warm start or when the first CAPSTART signal is received for a subscription set against this registration. If this error occurs during the processing of a CAPSTART signal, the Capture program does not activate the registration. If this error occurs during a reinitialization (from a warm start or a reinit capture command), the Capture program places the registration in the "stopped" state, indicating that you must repair the registration before the Apply program can resynchronize the associated subscription sets.

**User response:**
1. Alter the source table to turn on data capture changes. For example:
   - `alter table regress.table3 data capture changes`

2. If the registration has been deactivated by the Capture program (state = stopped), update the registration to set the state to inactive.

3. Use the Replication Center to force the Apply program to perform a full refresh for all subscription sets that replicate from this source table.

   **ASN0011E**  CAPTURE capture_schema. The Capture program log read failed because the DB2 compression dictionary that was used to create the compressed log record no longer exists. The log record that could not be read was for the registered source table `table_owner.table_name`. The reason code is `reason_code`.

   **Explanation:** The Capture program received an error from the DB2 log read interface. The reason code is from DB2 and indicates that the data on a log record cannot be processed because the compression dictionary for the corresponding DB2 table or table space is permanently unavailable. The compressed table or table space that contains this source table was probably reorganized by the REORG utility that ran without the KEEPDICOTIONARY option. The Capture program cannot read the remaining compressed log records from source changes that occurred before the reorganization. The Capture program follows the option that was specified for Stop Capture on Error (Replication Center) or STOP ON ERROR (ASNCLP command-line program) for this registration.

   **User response:** Take one of the following actions, depending on whether the registration specifies that Capture stops on error:

   - **No**
     - No action is required. The Capture program deactivates the registration. The Apply program reactivates the registration and performs a full refresh of the target table.

   - **Yes**
     - Deactivate the registration and restart the Capture program. The Apply program reactivates the registration and performs a full refresh of the target table.

   **ASN0013E**  CAPTURE capture_schema. The Capture program required a column that was not defined in the change-data (CD) table. The table name is `table_name`.

   **Explanation:** A required column in the CD table is not defined.

   **User response:** Ensure that the CD table definition is correct.

   **ASN0019E**  CAPTURE capture_schema. The Capture program did not start because its program libraries are not authorized for the Authorized Program Facility (APF).

   **Explanation:** The Capture program must be APF authorized.

   **User response:** Authorize the Capture link library for APF, and restart the program.

   **ASN0020I**  CAPTURE capture_schema. Netview Generic Alerts Interface failure. The Netview return code is `return_code`.

   **Explanation:** The Network Major Vector Transport (NMVT) could not be sent to Netview by the program because the program interface failed. This is a secondary informational message.

   **User response:** See the Netview programming documentation for a description of the return code to determine the interface error. The Capture program alerts are not received by the System Services Control Point (SSCP) until the error is corrected.

   **ASN0021I**  CAPTURE capture_schema. Netview Program to Program Interface unavailable. The Netview return code is `return_code`.

   **Explanation:** Netview is unavailable. This is a secondary informational message.

   **User response:** See the Netview programming documentation for a description of the return code to determine the Netview problem. For example, the subsystem might not have been started.

   **ASN0023I**  CAPTURE capture_schema. The Capture program has been reinitialized and is capturing changes for `number` registrations. Stopped_number registrations are in a stopped state. Inactive_number registrations are in an inactive state.

   **Explanation:** A REINIT command was issued to the Capture program. The Capture program then tried to refresh all the internal control information for all the registrations.

   **User response:** If the Capture program is capturing changes for all the registrations, no action is required. Otherwise, examine the preceding error messages to determine the cause of the failure, and follow the suggested user response to repair the failing registration definition. After you repair the registration, re-issue the REINIT command to the Capture program.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Explanation</th>
<th>User response</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASN0028I</td>
<td>CAPTURE capture_schema. The Capture program is suspended by an operator command.</td>
<td>An operator command has suspended the Capture program, and the program has entered a wait state.</td>
<td>This message is for your information only, and no action is required.</td>
</tr>
<tr>
<td>ASN0029I</td>
<td>CAPTURE capture_schema. The Capture program is resumed by an operator command.</td>
<td>An operator command has resumed the Capture program from a suspended state, and the Capture program has continued running.</td>
<td>This message is for your information only, and no action is required.</td>
</tr>
<tr>
<td>ASN0031E</td>
<td>CAPTURE capture_schema. The program parameter table IBMSNAP_CAPPARMS can have only one row.</td>
<td>The Capture program parameters table was not defined correctly or has been updated with rows that are not valid.</td>
<td>Make sure that there is only one row in the IBMSNAP_CAPPARMS table. Refer to the Table structures documentation in the SQL Replication Guide and Reference for additional information.</td>
</tr>
<tr>
<td>ASN0035E</td>
<td>CAPTURE capture_schema. A row with an unsupported architecture level was found in the table IBMSNAP_REGISTER. The row is not valid and specifies CD table cd_owner.cd_table, and the architecture level is arch_level.</td>
<td>The Capture program tried to initialize a registration and found that the registration definition contains an unsupported SQL type such as an abstract type. This message is issued during Capture warm start or when the first CAPSTART signal is received for a subscription against this registration. This error does not cause the Capture program to terminate.</td>
<td>Use the replication administration tools to change the registration so that it does not contain the unsupported SQL type, or drop the registration.</td>
</tr>
<tr>
<td>ASN0049I</td>
<td>CAPTURE capture_schema. A row for the SIGNAL_SUBTYPE CAPSTOP was inserted into the table IBMSNAP_SIGNAL.</td>
<td>The Capture program received a signal to stop capturing data. The Capture program commits current work in progress and terminates.</td>
<td>This message is for your information only, and no action is required.</td>
</tr>
<tr>
<td>ASN0055E</td>
<td>CAPTURE capture_schema. The Capture program encountered a column column_name with an unsupported SQLTYPE in table table_name.</td>
<td>The Capture program tried to initialize a registration and found that the registration definition contains an unsupported SQL type such as an abstract type. This message is issued during Capture warm start or when the first CAPSTART signal is received for a subscription against this registration. This error does not cause the Capture program to terminate.</td>
<td>Use the replication administration tools to change the registration so that it does not contain the unsupported SQL type, or drop the registration.</td>
</tr>
<tr>
<td>ASN0057E</td>
<td>CAPTURE capture_schema. The MAP_ID mapid in a CAPSTART row in the IBMSNAP_SIGNAL table does not correspond to any entry in the IBMMSNAP_PRUNCNTL table.</td>
<td>The value for the MAP_ID that is specified by the CAPSTART signal does not match any current value in the MAP_ID column of the IBMMSNAP_PRUNCNTL table. The subscription set might have been deleted, or a user might have inserted the CAPSTART signal incorrectly.</td>
<td>Ensure that the Capture program has correct access and security permissions for all required paths and files. Also, ensure that adequate space is available on your system. If you believe that this message was issued because of product failure, contact IBM Software Support for assistance.</td>
</tr>
<tr>
<td>ASN0058W</td>
<td>CAPTURE capture_schema. The MAP_ID mapid in a CAPSTART row in the IBMMSNAP_SIGNAL table does not correspond to any entry in the IBMMSNAP_PRUNCNTL table.</td>
<td>The value for the MAP_ID that is specified by the CAPSTART signal does not match any current value in the MAP_ID column of the IBMMSNAP_PRUNCNTL table. The subscription set might have been deleted, or a user might have inserted the CAPSTART signal incorrectly.</td>
<td>If this CAPSTART was issued by a user, check that the MAP_ID for the Signal table insert is correct, and try again. If this CAPSTART signal was issued by the Apply program, verify that the subscription set still exists.</td>
</tr>
</tbody>
</table>
**ASN0059W** CAPTURE capture_schema. The SYNCHPOINT field in the IBMSNAP_PRUNCNTL table is not zeros for the CAPSTART of subscription with MAP_ID map_id.

**Explanation:** When the Apply program signals a full refresh to the Capture program, the Apply program inserts a row for the CAPSTART signal in the IBMSNAP_SIGNAL table. At the same time, the SYNCHPOINT column of the IBMSNAP_PRUNCNTL table is set to hex zeroes. The Capture program then responds to the Apply program to confirm that the Capture program received the CAPSTART signal, as follows: the Capture program sets the value for the SYNCHPOINT column in the IBMSNAP_PRUNCNTL table to the number of the log sequence that corresponds to the CAPSTART log record. Because the Apply program set the value in the SYNCHPOINT column to hex zeroes, the Apply program checks if a nonzero value has been inserted by the Capture program. The Capture program updates the value for SYNCHPOINT, even if the value was not hex zeroes. However, if the value for SYNCHPOINT is not hex zeroes, the Capture program issues this warning that the value it found was not expected.

This warning can occur if you issue the APPLY CAPSTART signal yourself and do not completely simulate the actions of the Apply program.

**User response:** This message is for your information only, and no action is required.

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**ASN0060E** CAPTURE capture_schema. The Capture program encountered an internal error error_code.

**Explanation:** An unexpected error occurred in the Capture program. The Capture program terminates.

**User response:** Contact IBM Software Support for assistance.

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**ASN0061E** CAPTURE capture_schema. A registration that is not valid has been found. Source table source_owner.source_table does not exist in the system catalog tables.

**Explanation:** The Capture program tried to initialize a registration and found that the source table specified in the registration was not in the source system catalog tables. This message is issued during Capture warm start or when the first CAPSTART signal is received for a subscription against this registration. This error does not cause the Capture program to terminate. The values for the columns phys_change_owner and phys_change_table in the Capture control table IBMSNAP_REGISTER might have been incorrectly specified, or the CD table was dropped and no longer exists.

**User response:** If the registration is in error, correct the values in the columns phys_change_owner and phys_change_table. If the CD table no longer exists, then the registration is no longer valid and can be removed.

---

**ASN0062E** CAPTURE capture_schema. A registration that is not valid has been found. CD table phys_change_owner.phys_change_table does not exist in the system catalog tables.

**Explanation:** The Capture program tried to initialize a registration and found that the CD table specified in the registration was not in the source system catalog tables. This message is issued during Capture warm start or when the first CAPSTART signal is received for a subscription against this registration. This error does not cause the Capture program to terminate. The values for the columns phys_change_owner and phys_change_table in the Capture control table IBMSNAP_REGISTER might have been incorrectly specified, or the CD table was dropped and no longer exists.

**User response:** If the registration is in error, correct the values in the columns phys_change_owner and phys_change_table. If the CD table no longer exists, then the registration is no longer valid and can be removed.

---

**ASN0063E** CAPTURE capture_schema. The source table source_owner.source_table associated with the subscription having MAP_ID mapid does not exist in the system catalog tables. The Capture program could not start capturing changes for this subscription.

**Explanation:** The Capture program tried to respond to a CAPSTART signal for a subscription and found that the source table which corresponds to the subscription was not in the source system catalog tables. This error message is issued when the first CAPSTART signal is received for a subscription that is not valid. This error does not cause the Capture program to terminate. The values for the columns source_owner and source_table in the Capture control table IBMSNAP_PRUNCNTL might have been incorrectly specified, or the source table was dropped and no longer exists.

**User response:** If the subscription is in error, correct the values for the columns source_owner and source_table. If the source table no longer exists, then the subscription is no longer valid and can be removed.

---

**ASN0064E** CAPTURE capture_schema. The registration is not valid for an associated subscription having MAP_ID mapid. The Capture program cannot start capturing change data for this subscription.

**Explanation:** The Capture program tried to initialize a registration associated with a particular subscription and found that the registration contains one or more
column values that are not valid. This message is issued when the first CAPSTART signal for a subscription is received against this registration. This error does not cause the Capture program to terminate. The values for the columns phys_change_owner and phys_change_table in the Capture control table IBMSNAP_REGISTER might have been incorrectly specified, or the CD table was dropped and no longer exists.

**User response:** If the registration is in error, correct the values for the columns phys_change_owner and phys_change_table. If the registration is no longer needed, you can remove it.

**ASN0065E**  
**CAPTURE capture_schema. A registration that is not valid has been found. The source table source_owner.source_table is not a local physical table.**

**Explanation:** The Capture program tried to initialize a registration and found that the source table for the registration is not a local physical table, but is instead on a non-DB2 relational server that is used as a source and called by a nickname. When a non-DB2 relational server is used as a source, data from each server is captured through a trigger program. Each source table must be in its own register table built on the non-DB2 relational server. This message is issued during a Capture warm start or when the first CAPSTART signal against this registration is received for a subscription. This error does not cause the Capture program to terminate. The registration has been created incorrectly in an IBMSNAP_REGISTER table in a DB2 database.

**User response:** This registration must be rebuilt and made valid at the correct non-DB2 relational server.

**ASN0066E**  
**CAPTURE capture_schema. A registration that is not valid has been found. The CD table phys_change_owner.phys_change_table is not a local physical table.**

**Explanation:** The Capture program tried to initialize a registration and found that the CD table for the registration that corresponds to the subscription is a nickname for a non-DB2 relational database used as a source. This message is issued when the first CAPSTART signal is received for a subscription against this registration. This error does not cause the Capture program to terminate.

**User response:** Non-DB2 relational sources are captured through trigger programs, and must be in their own register table in the non-DB2 relational source system. CCD tables for such sources are also created in the non-DB2 relational source system. Somehow the non-DB2 relational source table registration has been incorrectly registered in an IBMSNAP_REGISTER control table. This registration must be rebuilt at the correct non-DB2 relational server.

**ASN0067E**  
**CAPTURE capture_schema. The view registration associated with the subscription having MAP_ID map_id was not found in the table IBMSNAP_REGISTER. The Capture program could not start capturing change data for this subscription.**

**Explanation:** The Capture program tried to initialize a registration and found that the view registration that corresponds to the subscription does not exist. This message is issued during Capture warm start or when the first CAPSTART signal is received for a subscription against this registration. This error does not cause the Capture program to terminate. The values of the columns source_owner, source_table, and source_view_qual in the IBMSNAP_REGISTER or IBMSNAP_PRUNCNTL Capture control table could have been incorrectly specified. Therefore, either no match was found or the registration was dropped and no longer exists.

**User response:** If the subscription or the registration is in error, correct the values in the columns source_owner, source_table, and source_view_qual. If the registration no longer exists, then the subscription is no longer valid and can be removed.

**ASN0068E**  
**CAPTURE capture_schema. The insert statement is too long for CD table phys_chg_owner.phys_chg_tbl.**

**Explanation:** The number of columns in the CD table is too large; the SQL INSERT statement exceeds the 32K Capture coding limit.

**User response:** If all of the table columns are defined in the registration but only a subset of these columns are needed at the target, reduce the number of columns for that registration. Alternatively, split the table over two registrations so that each registration has a different subset of the table columns.

**ASN0069E**  
**CAPTURE capture_schema. SQLCODE sqlcode was returned during an insert into the CD table phys_chg_owner.phys_chg_tbl. The CD table appears to have been dropped.**

**Explanation:** The Capture program tried to insert a row into a CD table, and DB2 returned a SQLCODE indicating that the CD table no longer exists. The CD table could inadvertently have been dropped, or the whole registration could have been dropped. If there are still rows in the IBMSNAP_REGISTER table that refer to this CD table, the Capture program deactivates these registrations by setting the value of the CD_OLD_SYNCPNT column to NULL and no longer attempts to capture changes for this CD table. This error does not cause the Capture program to terminate.

**User response:** If the CD table no longer exists and is
no longer required, the registration is no longer valid and should be removed. It is recommended that you deactivate the registration before you remove it. Any subscription sets associated with registrations that use this CD table should also be deactivated. Additionally, the associated subscription-set members should be removed so that these subscription sets can be activated and can run successfully.

**Explanation:** The Capture program tried to initialize a registration and found that the before-image column within the CD table for the registration was not defined to accept null values. This message is issued during Capture warm start or when the first CAPSTART signal is received for a subscription against this registration. This error does not cause the Capture program to terminate.

**User response:** Correct the CD table for this registration.

**ASN0071E** CAPTURE capture_schema. The data type attribute of the column column_name in the CD table phys_chg_owner.phys_chg_tbl is not compatible with the data type attribute of the corresponding source column.

**Explanation:** The Capture program tried to initialize a registration and found that a column within the CD table for the registration is not compatible with the corresponding source column. This message is issued during Capture warm start or when the first CAPSTART signal is received for a subscription against this registration. This error does not cause the Capture program to terminate.

**User response:** Correct the value of INPUT_IN, and insert the signal again.

**ASN0072E** CAPTURE capture_schema. The before-image column column_name in the CD table phys_chg_owner.phys_chg_tbl must allow NULL values.

**Explanation:** The Capture program tried to initialize a registration and found that the before-image column within the CD table for the registration was not defined to accept null values. This message is issued during Capture warm start or when the first CAPSTART signal is received for a subscription against this registration. This error does not cause the Capture program to terminate.

**User response:** Correct the CD table for this registration.

**ASN0073E** CAPTURE capture_schema. The specification input_in describing the CD table on a CAPSTOP signal is not valid.

**Explanation:** The Capture program found that the INPUT_IN value specified on the CAPSTOP signal is not in a valid format of phys_change_owner.phys_change_table. This error does not cause the Capture program to terminate, and no action is taken for this signal.

**User response:** Ensure that the value of INPUT_IN matches the name of the CD table associated with the registration that you want to deactivate. Insert a new row into the IBMSNAP_SIGNAL table.

**ASN0074E** CAPTURE capture_schema. There is no row in the IBMSNAP_REGISTER table that corresponds to src_owner.src_table that is specified on a CAPSTOP signal.

**Explanation:** The Capture program found that the INPUT_IN value specified on the CAPSTOP signal is in a valid format, and there is no match for the value of source_owner.source_table in the registration table. This error does not cause the Capture program to terminate.

**User response:** Correct the value of INPUT_IN, and insert the signal again.

**ASN0075W** CAPTURE capture_schema. The registration corresponding to the INPUT_IN, src_owner.src_table on a CAPSTOP signal was not capturing changes. No action is taken.

**Explanation:** The Capture program found that the INPUT_IN value specified on the CAPSTOP signal is in a valid format and matches the value of a source_owner.source_table in the registration table, but this registration is already inactive. This error does not cause the Capture program to terminate, and the Capture program takes no action for the signal.

**User response:** This message is for your information only, and no action is required.
ASN0076I  CAPTURE capture_schema. Capture has stopped capturing changes for source table source_owner.source_table in response to a CAPSTOP signal.

Explanation: The Capture program successfully deactivated a registration that was specified in a CAPSTOP signal.

User response: This message is for your information only, and no action is required.

ASN0077E  CAPTURE capture_schema. The values specified for the PHYS_CHANGE_OWNER and PHYS_CHANGE_TABLE columns in the IBMSNAP_PRUNCNTL table where MAP_ID = mapid are NULL or do not match a valid row in the IBMSNAP_REGISTER table.

Explanation: The Capture program tried to initialize a registration and found that the column values of PHYS_CHANGE_OWNER and PHYS_CHANGE_TABLE within the IBMSNAP_PRUNCNTL table for the subscription do not match a registration row in the IBMSNAP_REGISTER table. The message was issued during Capture warm start or when the first CAPSTART signal was received for a subscription against this registration. This error does not cause the Capture program to terminate.

User response: Correct the values in the IBMSNAP_PRUNCNTL table for this subscription. If this subscription was built using the Replication Center, contact IBM Software Support to report a potential administration problem.

ASN0078E  CAPTURE capture_schema. The before-image column column_name in the CD table phys_owner.phys_table has no corresponding after-image column in the CD table for this registration. The registration is not valid.

Explanation: The Capture program tried to initialize a registration and found a before-image column within the CD table of the registration that has no corresponding after-image column. This message is issued during a Capture program warm start or when the first CAPSTART signal is received for a subscription against this registration. This error does not cause the Capture program to terminate.

User response: Correct the CD table for this registration by ensuring that before-image columns are included in the CD table only when the corresponding after-image column is also included.

ASN0079E  CAPTURE capture_schema. SQLCODE sqlcode was returned during an update to the IBMSNAP_REGISTER table for the registrations associated with the CD table phys_chg_owner.phys_chg_tbl. The rows might have been deleted.

Explanation: The Capture program tried to update the IBMSNAP_REGISTER table to indicate that data has been captured for the named CD table, and DB2 returned a SQLCODE indicating that the rows no longer exist. The registrations could have been dropped. This error does not cause the Capture program to terminate.

User response: If the registration has been dropped, no further action is required for the registrations. When dropping registrations, it is recommended that you deactivate the registrations first. If the rows in the IBMSNAP_REGISTER table were inadvertently deleted, drop the associated CD table and rebuild the registrations. Deactivate any subscription sets that are associated with the registrations. If a registration must be dropped, remove the associated subscription-set members so that these subscription sets can be activated and can run successfully. If the registrations are rebuilt, a signal is sent to the Apply program indicating that a full refresh should be performed for the associated subscription sets.

ASN0080E  CAPTURE capture_schema. A table space full condition has been encountered for CD table phys_chg_owner.phys_chg_tbl, which is associated with the registration for source table source_owner.source_table.

Explanation: The Capture program tried to process an insert into the named CD table but was unable to process the insert due to a table space full condition. Typically this condition results from insufficient space allocation for CD table spaces, infrequent pruning, or ineffective pruning. This error causes the Capture program to terminate.

User response: Take the following steps to determine the cause of the table space full condition:
1. Ensure that sufficient space has been allocated to the table space for this CD table in order to accommodate normal processing conditions.
2. Ensure that pruning is performed often enough to reduce the storage requirements for the Capture control tables.
3. Ensure that the Apply programs are running often enough to accommodate normal pruning processing.
4. Verify that no subscription sets have been deactivated for a long period of time without taking the additional steps necessary for normal pruning.
ASN0082W  CAPTURE capture_schema. The Capture program encountered a registration with a column column_name in the CD table phys_chg_owner.phys_chg_tbl with a column length CD_column_length that is shorter than the length of the corresponding column in the source table source_owner.source_table, with a length of src_column_length.

Explanation: During the initialization of a registration, the Capture program found that the registration definition contains a column in the CD table with a column length that is shorter than the corresponding column length in the source table. The registration definition is allowed, but a warning message is issued to inform you that the captured source table data might not fit within the defined CD table column. This message is issued during a Capture program warm start or when the first CAPSTART signal is received for a subscription against this registration. The registration initializes successfully.

User response: Unless there is a specific reason why you need to define the registration in this manner (for example, if you are certain that the length of the changed data will never be larger than the length of the CD table column), you should define the registration so that the source table and the CD table data definitions match exactly.

ASN0083E  CAPTURE capture_schema. SQLCODE sqlcode was returned when trying to process an insert into the CD table phys_chg_owner.phys_chg_tbl. The CD table column column_name is too short and cannot contain the captured data from the corresponding column in the source table, source_owner.source_table. The registration has been stopped by the Capture program.

Explanation: The Capture program tried to process an insert into a CD table and encountered a SQLCODE from DB2 that indicates that the CD table contains a column that is shorter than the length of the corresponding column in the source table. This error does not cause the Capture program to terminate, but the registration is placed in the stopped state.

User response: Re-evaluate this registration definition. Either alter the registration so that the lengths of the source table column and the CD table column match or add a trigger to the CD table to truncate the data.

ASN0100I  CAPTURE capture_schema : The Capture version version_number program initialized successfully.

Explanation: This message informs you that the Capture program started, and the version of the Capture program.

User response: This message is for your information only. No action is required.

ASN0101W  CAPTURE capture_schema. The Capture program switches to cold start because the warm start information is insufficient.

Explanation: A problem occurred during the retrieval of the restart information. The restart table data is not valid. A cold start is performed.

User response: See “Operating the Capture program for SQL Replication” in the DB2 Information Center for more details.

ASN0102W  CAPTURE capture_schema. The Capture program switches to cold start because existing data is too old. A cold start will be attempted.

Explanation: The data in the change data tables is too old. A cold start is performed.

User response: See “Operating the Capture program for SQL Replication” in the DB2 Information Center for more details.
ASN0104I  CAPTURE capture_schema. In response to a CAPSTART signal with MAP_ID mapid, change capture has started for the source table source_owner.source_table for changes found on the log beginning with log sequence number log_sequence_number.

Explanation: The Capture program successfully processed a CAPSTART signal. If this is the first CAPSTART signal associated with a particular source table, this message indicates that the Capture program is now capturing updates to the source table. If this is a CAPSTART signal for a table for which changes are already being captured, this message indicates that the Capture program received the signal and performed the required processing to allow the Apply program to start receiving changes for the subscription set that is associated with the input MAP_ID value.

User response: This message is for your information only, and no action is required.

ASN0111I  CAPTURE capture_schema. The pruning cycle started at timestamp.

Explanation: This message is issued at the beginning of each pruning cycle.

User response: This message is for your information only, and no action is required.

ASN0112I  CAPTURE capture_schema. The pruning cycle ended at timestamp.

Explanation: This message is issued at the termination of each pruning cycle.

User response: This message is for your information only, and no action is required.

ASN0113W  CAPTURE capture_schema. The pruning retention limit will be reached in the next 24 hours.

Explanation: This warning message is issued when the values in the IBMSNAP_UOW table indicate that retention limit pruning could occur in the next day.

User response: Check to see why regular pruning is not occurring. Usually this is because one or more Apply programs have not been run for a period of many days, and therefore the CD and UOW tables cannot be effectively pruned. Another potential hazard is the removal or deactivation of a subscription set, without the removal or reset of the corresponding synchpoint value in the table IBMSNAP_PRUNE_SET. The Replication Analyzer tool can be used to provide a detailed analysis of the situation.

ASN0114E  CAPTURE capture_schema. Pruning has failed with SQL code sqlcode when pruning the table table_owner.table_name.

Explanation: This error message is issued when pruning fails with an unexpected SQL error code. Pruning terminates and tries again at the next interval or command invocation. This error does not cause the Capture program to terminate.

User response: If this SQL code indicates a temporary error, then no action is required. Otherwise, take action as indicated for the SQL error in the "ASN - Replication" messages section of the DB2 Information Center.

ASN0121E  CAPTURE capture_schema. The Capture program warm start failed because existing data is too old. The Capture program will terminate.

Explanation: The lag_limit parameter represents the number of minutes that the Capture program can lag in processing records from the DB2 log. Capture cannot warm start because it will process transactions older than is allowed by the user specified lag_limit.
User response: Determine why the Capture program is behind in reading the log. If you are in a test environment, where you have no practical use for the lag limit parameter, you might want to set the lag limit higher and try starting the Capture program again. Alternatively, if you have very little data in the source table in your test environment, you might want to cold start the Capture program and fully refresh the data in all the target tables.

Explanation: This error message is issued when the monitoring thread has failed with an unexpected SQL code. Monitor functions for this interval are skipped, and the program tries again at the next interval. This error does not cause the Capture program to terminate.

User response: If this SQL code indicates a temporary error, then no action is required. Otherwise, take action as indicated for the SQL error in the in the "ASN - Replication" messages section of the DB2 Information Center.

User response: Determine why the restart information could not be retrieved by Capture from IBMSNAP_RESTART. Look at previous messages for clues as to what may have gone wrong. Correct the problem, if possible and restart Capture warm. If the problem cannot be corrected, restart Capture cold.

Explanation: A problem occurred while retrieving the restart information. The restart table data was not valid or for z/OS, an Instrumentation Facility Interface (IFI) error occurred while reading the log during a restart. When the error is resolved, you can restart using the warm start option.

User response: Determine why the restart information could not be retrieved by Capture from IBMSNAP_RESTART. Look at previous messages for clues as to what may have gone wrong. Correct the problem, if possible and restart Capture warm. If the problem cannot be corrected, restart Capture cold.

Explanation: The Capture program started with a startmode of warmns or warmsi. When the Capture program attempted to warm start, it received a return code from the DB2 log read API that indicates that the source database has been restored or rolled forward and that log sequence numbers have been reused; the state of the source database and the state of the captured data are no longer consistent. The Capture program switched to a cold start.

User response: This message is for your information only, and no action is required.

Explanation: The Capture program terminates when it reached the end of the active log as requested by the user option of AUTOSTOP.

User response: If you are certain that it is safe to perform a Capture program warm start, restart the Capture program; it will not terminate on a second attempt. If you are not certain whether the captured data will be in a consistent state after a Capture program warm start, it is recommended that you perform a Capture program cold start.
ASN0180W  CAPTURE capture_schema. The table IBMSNAP_SIGNAL is not an EBCDIC table as required by capture. The signal has been processed.

Explanation: The Capture program detected that the IBMSNAP_SIGNAL table is not defined as an EBCDIC table. Additional processing is required to translate signals to EBCDIC to process them properly. The additional processing requires a small performance degradation.

User response: At your earliest convenience, perform the following steps:
1. Stop the Capture program.
2. Drop and re-create the IBMSNAP_SIGNAL table with EBCDIC encoding.
3. Restart the Capture program.

ASN0181W  CAPTURE capture_schema. The row for the signal with timestamp signal_time no longer exists in the IBMSNAP_SIGNAL table. The signal has been processed.

Explanation: The Capture program processed the request from the signal but could not update the SIGNAL_STATE and SIGNAL_LSN. Therefore, the issuer of the signal cannot determine that the Capture program received the signal.

User response: Determine if another process is expecting the update for the signal from the Capture program, and if necessary, re-send the signal.

ASN0182W  CAPTURE capture_schema. The row for signal with timestamp signal_time no longer exists in IBMSNAP_SIGNAL table and the table is not EBCDIC. The signal will be ignored by capture.

Explanation: An initialization failure occurred, because the Capture program received a signal that was not encoded in EBCDIC. The Capture program could not translate the signal to EBCDIC, because the row in the IBMSNAP_SIGNAL table no longer exists. The Capture program cannot determine what signal was sent and so ignores it.

User response: Determine what signal was sent, and re-send the signal.

At your earliest convenience, perform the following steps:
1. Stop the Capture program.
2. Drop and re-create the IBMSNAP_SIGNAL table with EBCDIC encoding.
3. Restart the Capture program.

ASN0183E  CAPTURE capture_schema. The Capture program detected an inconsistency between the IBMSNAP_PARTITIONINFO table and DB2 partition information.

Explanation: This error message occurred due to one of the following reasons:
- A new database partition was added to the database.
- The IBMSNAP_PARTITIONINFO control table is corrupted.

User response: If a new partition was added, restart the Capture program with the add_partition=Y option.
If the IBMSNAP_PARTITIONINFO control table is corrupted, cold start the Capture program or call IBM Software Support.

ASN0184I  CAPTURE capture_schema. The Capture program started on partition partition_num for changes found in the log beginning with log sequence number log_sequence_number.

Explanation: A new partition was added using the ADD_PARTITION option. The Capture program started processing for that partition.

User response: This message is for your information only, and no action is required.

ASN0185I  CAPTURE capture_schema. The Capture program did not find a required control table so it created the control table control_table and its associated index index in the Capture control server.

Explanation: The Capture program requires the specified control table. If the Capture program does not find the control table, it creates the control table and its associated index on the appropriate Capture control server.

User response: This message is for your information only, and no action is required.

ASN0186W  CAPTURE capture_schema. The Capture program cannot find the source database database on partition partition_ID. The Capture program cannot process the log for this partition.

Explanation: This partition is not known to the source database. The Capture program captures data only from the partitions that are known to the source database.

User response: Add the partition to the database and restart the Capture program using the ADD_PARTITION=Y option. If the partition is not needed, remove it.
The Capture program cannot find partition `partition_id` previously known in DB2.

Explanation: The Capture program cannot find a previously known partition in DB2. The partition is no longer part of the multipartition source server.

User response: Verify that the missing partition was properly removed. No further action is required.

The Capture program pruned records from a CD, UOW, TRACE, MONITOR, or SIGNAL table due to retention limit pruning.

Explanation: The Capture program pruned records from a CD, UOW, TRACE, MONITOR, or SIGNAL table due to retention limit pruning.

User response: This message is for your information only, and no action is required.

The Capture program is terminating because an error occurred for registered table `src_owner.table` and the registration is configured to stop on error.

Explanation: The registration has `STOP_ON_ERROR = Y`. The Capture program is terminating due to an error that is identified in a previous message.

User response: Take one or both of the following actions and then restart the Capture program:

- Correct the error identified in the previous message.
- In the register (IBMSNAP_REGISTER) table, set `STOP_ON_ERROR = N`.

The Capture program deactivated the registration for the specified source table due to an error. The Capture program did not terminate.

Explanation: The Capture program deactivated the registration for the specified source table due to an error that is identified in a previous message. The Capture program did not terminate; it is still running because the registration has `STOP_ON_ERROR = N`.

User response: Correct the error for this source table that is identified in the `STATE` column of the register (IBMSNAP_REGISTER) table and then reactivate the registration. When you reactivate the registration, a full-refresh is performed.

To avoid a full-refresh in the future, set `STOP_ON_ERROR` to `Y` so that the Capture program terminates if it encounters the error.

The Capture program encountered a different version of the table because the table was altered. The Capture program was not able to determine the correct version by reading from the IBMQREP_COLVERSION and IBMQREP_TABVERSION tables. The tables might have been dropped.

Explanation: The Capture program encountered a different version of the table because the table was altered. The Capture program was not able to determine the correct version by reading from the IBMQREP_COLVERSION and IBMQREP_TABVERSION tables. The tables might have been dropped.

User response: Ensure that the IBMQREP_COLVERSION and IBMQREP_TABVERSION tables have not been dropped. If they are missing, restore these tables and restart the Capture program.

The log reader thread is still initializing. The program continues to wait.

Explanation: During initialization, the Q Capture or Capture program tries to read from a restart point (either a specific Log Sequence Number when the Q Capture or Capture program is started in warm mode, or the current active LSN for cold starts). The initialization might take excessive time if the recovery log or the database is unavailable. In a DB2 multiple-partitioned environment or Oracle RAC environment, the log reader thread also takes longer to initialize.

User response: Continue waiting for the log reader to initialize.
ASN0194W  CAPTURE: capture_schema: The Capture program detected that a partition was attached to table table_owner.table_name. Capture had not read log records up to the point that corresponds to the time that the registration was activated. Capture might have incorrectly captured rows for the table before it was attached.

Explanation: When capture activates a registration for a table, it gathers table information from the system catalogs. If a partition was attached to the table before Capture activates the registration, the system catalog information might not correctly reflect where capture is in the log. For a newly attached partition, capture might incorrectly capture rows from the table before it was attached as a partition.

User response: Stop capturing for the registration and perform a full refresh for the subscription set.

ASN0195I  Capture capture_schema: The transaction with ID transaction_identifier was ignored as requested.

Explanation: The Capture program did not capture the transaction because the transaction ID was specified in the IGNORE_TRANSID parameter when Capture was started, or information for ignoring the transaction was inserted into the IBMQREP_IGNTRAN table.

User response: This message is for your information only. No action is required.

ASN0196W  Capture: capture_schema: The contents of the registered source table table_owner.table_name were altered by the DB2 utility program utility_program.

Explanation: The source table was altered by one of the following DB2 online utility programs:
- LOAD SHRLEVEL NONE RESUME YES
- LOAD SHRLEVEL NONE REPLACE
- REORG TABLESPACE DISCARD
- CHECK DATA DELETE YES LOG NO
- RECOVER PIT
- EXCHANGE DATA ON CLONE TABLESPACE

The changes to the source table are not automatically replicated to the target table, and the two tables could be out of synch.

User response: To maintain synchronization between the source and target, take one of the following actions:
- Perform a full refresh of the target table.
- Use the asntdiff program to identify any differences between the source and target tables, and then use the asntrep program to repair the differences.

ASN0197W  Capture capture_schema: The registered source table table_name was dropped.

Explanation: The Capture program detected that the table space for the source table was dropped, and therefore the table itself was dropped.

User response: If you no longer want to replicate data from the source table, use the replication administration tools to drop the registration. If you plan to recover the table, reinitialize the Capture program after the table is recovered, or stop and start the Capture program in warm mode.

ASN0198E  Capture capture-schema: The number of database partitions exceeds the maximum number of partitions that SQL Replication supports. The Capture program will stop.

Explanation: The Capture program supports up to 16 partitions in a multiple-partitioned environment.

User response: Reduce the number of partitions to 16 or fewer and start the Capture program.

ASN0199E  Capture capture_schema: The Capture program could not activate the registration for table table_owner.table_name. The table was altered. The table version is version.

Explanation: When a table is altered, it must be reorganized before the Capture program can begin processing log records for it. For the specified table, one of the following situations is likely:
- The table was altered but never reorganized.
- The table was altered after its most recent reorganization.

User response: Reorganize the table and activate the registration.

ASN0200E  CAPTURE capture_schema. The Capture program log read failed because the DB2 compression dictionary that was used to create the compressed log record is temporarily unavailable. The log record that could not be read was for the registered source table table_owner.table_name. The reason code is reason_code.

Explanation: The Capture program received an error from the DB2 log read. The error indicates that the data on a log record cannot be processed because the compression dictionary for the corresponding DB2 table or table space is temporarily unavailable. For z/OS, the reason code is a z/OS diagnostic code. For Linux, UNIX, and Windows, the reason code is an SQL code. One cause for the problem could be that the compressed table space is in the STOPPED state when
the DB2 Log Read Interface attempts to read the compression dictionary. DB2 takes a latch on the source compressed table space to access the dictionary and the latch does not work if the table space is stopped. This error prompts the Capture program to stop.

**User response:** The problem will be resolved when the compression dictionary becomes available. Restart the Capture program.

**ASN0201W** CAPTURE : capture_schema : The Capture program detected that a partition was detached from table table_owner.table_name. Capture was behind in the log when the registration for this table was activated. Capture might have incorrectly missed rows from the partition before it was detached from the table.

**Explanation:** When Capture activates a registration for a table, it gathers table information from the system catalogs. If a partition was detached from the table before Capture activates the registration, the system catalog information might not correctly reflect where Capture is in the log. For a newly detached partition, capture might incorrectly miss rows from the partition before it was detached.

**User response:** Stop capturing for the registration and perform a full refresh on the subscription set.

**ASN0202W** CAPTURE : capture_schema : An ALTER TABLE ALTER COLUMN statement was detected for column column_name of table table_name with a new data type of data_type. Column column_name of CD table table_name was altered to a data type of data_type. The target table is not altered automatically.

**Explanation:** The Capture program detected that a column in a registered source table was altered. Capture automatically altered the CD table column to match the new data type.

**User response:** If you want to replicate data from the altered column, you must alter the matching column in the target table.

**ASN0203E** CAPTURE capture_schema : The value value for the COMPATIBILITY column in the IBMSNAP_CAPPARMS table is not supported for a DB2 pureScale system at version version with two or more members.

**Explanation:** A DB2 pureScale system at Version 10 with two or more members requires a value of 1001 or higher in the COMPATIBILITY column of the IBMSNAP_CAPPARMS table.

**User response:** Before upgrading the compatibility setting for the Capture program, review the effect of that change on any Apply programs or Apply control servers that Capture works with. You might need to migrate the Apply control tables to Version 10. If required, update the COMPATIBILITY column to 1001 or higher and restart the Capture program.

**ASN0204E** CAPTURE : capture_schema : The log sequence number value LSN in the IBMSNAP_RESTART table is not expected. The Capture program will stop.

**Explanation:** The LSN value that Capture uses to find the correct restart point in the DB2 recovery log is not in the correct format. This problem can occur when you upgrade DB2 to Version 10 but the IBMSNAP_RESTART table still contains LSN values from a previous version. The LSN values that replication uses changed for DB2 for Linux, UNIX, and Windows V10 and are not compatible with earlier saved LSN values.

**User response:** Restart the Capture program with the migrate=y parameter, which updates the restart information to the correct format.

**ASN0205E** CAPTURE capture_schema : The connection that the Capture program uses to read DB2 log records was terminated because the DB2 subsystem has terminated or is in the process of terminating. The log sequence number is lsn. The return code is return_code. The reason code is reason_code.

**Explanation:** The Capture program connection with DB2 terminated while the Capture program was reading the DB2 log.

**User response:** Look up the reason code from the DB2 for z/OS instrumentation facility interface (IFI) to verify why the connection was terminated. Fix any problems and restart the Capture program if necessary.
Chapter 36. ASN0500 - ASN0999

ASN0500E  

**program_qualifier**: The parameter input `input_value` supplied for parameter name `parameter_name` is not valid.

**Explanation**: The program or a command program has been invoked with a specified input parameter that is not valid. The message indicates the name of the program that is reporting the error, along with the parameter name and the parameter value.

**User response**: Check the documentation on valid invocation parameters, correct the input, and resubmit the task or command.

ASN0501E  

**program_qualifier**: The value `input_value` supplied for the parameter `parameter_name` is not the correct data type.

**Explanation**: The program or a command program was invoked with an input value with an associated data type that is not valid. The message indicates the name of the program that is reporting the error, the incorrect input value, and the name of the parameter for which this input value was specified.

**User response**: Correct the invocation to include the correct data type for the parameter input and resubmit it.

ASN0502E  

**program_qualifier**: The value `input_value` of length `invalid_string_length`, supplied for parameter `parameter_name`, is greater than the maximum allowed string length of `allowed_string_length`.

**Explanation**: The program or a command program has been invoked using an input value with a string length that is not valid. The message indicates the name of the program that is reporting the error, what input value is incorrect, and for which parameter this input value was specified.

**User response**: Correct the invocation to include the correct string length for the parameter input and resubmit it.

ASN0503E  

**program_qualifier**: The integer value `input_value`, supplied for parameter `parameter_name`, is outside the supported range for this parameter.

**Explanation**: The program or a command program was invoked with an input value specified which is outside the supported range. The message indicates the name of the program that is reporting the error, which input value is incorrect, and for which parameter this input value was specified.

**User response**: Correct the invocation to include the correct range value for the parameter input and resubmit it.

ASN0504E  

**program_qualifier**: The program did not recognize the invocation parameter `incorrect_input`.

**Explanation**: The program or a command program has been invoked with a specified parameter or command that is not valid. The message indicates which program issued this message, and the invocation input that is unrecognized.

**User response**: Check the documentation on valid invocation parameters, correct the input and resubmit the task or command.

ASN0505E  

**program_qualifier**: The program was unable to get or set an IPC key.

**Explanation**: The program or a command program was unable to initialize the inter-process communications needed to process commands. This error causes the failing program to terminate.

**User response**: Retry the failing program or command. Contact IBM Software Support if the problem persists.

ASN0506E  

**program_name**: The command was not processed because the target replication program `program_name` was not running or because you entered an incorrect parameter value (for example, a server name, schema, or qualifier might be misspelled).

**Explanation**: This problem could also have occurred because of an issue with the IPC message queue that the program uses to receive commands.

**User response**: Verify that the parameter values are correct and that they identify a running replication program. Retry the command.

ASN0507E  

**program_qualifier**: The program could not create the replication communications message queue. The program did not terminate for this failure, but the command was not executed.
**ASN0508E**  

**Explanation:** The program or a command program encountered an internal error while trying to process a user command.

**User response:** Retry the failing command. See "Troubleshooting problems with IPC message queues" for more information.

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**ASN0509E**  

**Explanation:** The program or a command program encountered an internal error while trying to process a user command. The program did not terminate for this failure, but the command did not get executed.

**User response:** Retry the failing command. Contact IBM Software Support if the problem persists.

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**ASN0510E**  

**Explanation:** The program or a command program encountered an internal error while trying to process a user command. The program did not terminate for this failure, but the command did not get executed.

**User response:** Retry the failing command. Contact IBM Software Support if the problem persists.

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**ASN0511E**  

**Explanation:** The program encountered a timeout while waiting for reply messages.

**User response:** Retry the failing command. Contact IBM Software Support if the problem persists.

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**ASN0512E**  

**Explanation:** The program or a command program encountered an internal error while trying to process a user command.

**User response:** Retry the failing command. See "Troubleshooting problems with IPC message queues" for more information.

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**ASN0513E**  

**Explanation:** This message file used by the program has been installed incorrectly, or the language environment variables are not set correctly.

**User response:** Refer to the documentation for information about installation and configuration.

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**ASN0514E**  

**Explanation:** The program encountered an internal error while trying to open a file for its own program message log, and terminates abnormally because of this failure. This problem might have occurred because the file was inadvertently deleted, or because the userid associated with this process does not have the sufficient authority to open the file.

**User response:** Verify that sufficient authority is provided to the processing userid. If the file was inadvertently deleted, restart the program to create a new log file.

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**ASN0515E**  

**Explanation:** The program encountered an internal error while trying to close the file used for its own program message log. The file might have been deleted inadvertently before the program tried to terminate. Final termination messages might not be issued.

**User response:** If the file was inadvertently deleted, restart the program to create a new log file.

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**ASN0516E**  

**Explanation:** The program encountered an internal error while trying to close the message catalog file. The file might have been deleted inadvertently before the program tried to terminate. Final termination messages might not be issued.
If the message file has been deleted, it needs to be reinstalled.

**ASN0517E**  
**pgmname** : **program_qualifier** : The program has recovered the ability to read from its replication communications message queue.

**Explanation:** The program was able to reinitialize its read capability from the message queue needed to process commands after a previous failure.

**User response:** This message is for your information only, and no action is required.

**ASN0518E**  
**pgmname** : **program_qualifier** : The program does not accept multiple commands.

**Explanation:** The command program was invoked with multiple commands specified. Each command invocation must be performed with a single input command, along with any other required command input. Note: The CHGPARMS command allows multiple parameters to be changed with one invocation of the CHGPARMS command.

**User response:** Correct the command input, and resubmit the command.

**ASN0519E**  
**pgmname** : **program_qualifier** : The CHGPARMS command response: parameter_value supplied for CHGPARMS parameter parameter_name is not valid.

**Explanation:** The CHGPARMS command was invoked with incorrect parameter input.

**User response:** Correct the command input and resubmit the command.

**ASN0520I**  
**pgmname** : **program_qualifier** : The STATUS command response: thread_type thread is in the status_condition state.

**Explanation:** In response to the status command, one of these messages will be issued for each of the threads associated with the program that received the command, in each case providing the current state of that thread.

**User response:** This message is for your information only, and no action is required.

**ASN0521I**  
**pgmname** : **program_qualifier** : The QRYPARMS command response: parameter_name was set to parameter_value by the following method: method.

**Explanation:** In response to the QRYPARMS command, a message will be issued for each of the program parameters. For each parameter, the message provides the name of the parameter, the current setting of the parameter, and the method (by default, by changing the IBMSNAP_CAPPARMS table, by the startup option, or by the use of the CHGPARMS command) that was employed by the user to set the value of the parameter.

**User response:** This message is for your information only, and no action is required.

**ASN0522I**  
**pgmname** : **program_qualifier** : The program received the command_type command.

**Explanation:** The program received a command to be processed.

**User response:** This message is for your information only, and no action is required.

**ASN0523I**  
**pgmname** : **program_qualifier** : The CHGPARMS command response: parameter_name has been set to parameter_value.

**Explanation:** In response to the CHGPARMS command, one of these messages will be issued for each of the program parameters that was changed. For each parameter, the message provides the new value for the parameter.

**User response:** This message is for your information only, and no action is required.

**ASN0524E**  
**pgmname** : **program_qualifier** : The program required parameter parameter_name was not specified.

**Explanation:** The program or a command program was invoked without one of the required parameters specified. If the parameter missing is the capture_server or control_server, the program or command also tried accessing the database name implicitly through the DB2DBDFT environment variable setting, where applicable, and this also was not successful.

**User response:** Correct the invocation to include the appropriate parameter and its corresponding input value.

**ASN0525E**  
**pgmname** : **program_qualifier** : The program could not read from its external communications message queue.

**Explanation:** The program or a command program was unable to initialize its read capability from the external communications message queue needed to process commands.

**User response:** Retry the failing command, and if the problem persists, contact IBM Software Support.
ASN0526E  pgmname : program_qualifier : The program was invoked without any command input.

Explanation: The command program was invoked without a command to process. No command processing is performed.

User response: Resubmit the command with all the required input.

ASN0527E  pgmname : program_qualifier : The program was invoked without any CHGPARMS command input.

Explanation: The command program was invoked with the CHGPARMS command but without any command input to process. No command processing is performed.

User response: Resubmit the command with all the required input.

ASN0528E  pgmname : program_qualifier : The program will terminate because the required control table tableowner.tablename does not exist.

Explanation: The Capture or the Apply program tried to execute an SQL operation against a required Capture control table. The program received a not found return code from DB2. The return code occurs either if the migration has not been completed or if a required Capture control table has been accidentally dropped from the environment.

User response: See the message text for the name of the missing control table. Corrective action for this problem depends on which table is missing. For example, if the table is IBMSNAP_PRUNE_LOCK, then the table can simply be re-created, and the Capture program can be restarted. However, if the table is IBMSNAP_RESTART, and if the correct table contents cannot be restored, then the table needs to be re-created, and the Capture program requires a cold start.

ASN0529I  pgmname : program_qualifier : The value of parameter_name was set to parameter_value at startup by the following method: method.

Explanation: The program started, and the program parameters were initialized based on the combination of startup options that are specified and the existing contents of the parameters table. The parameters were set by one of the methods: by default, by changing the parameters table, or by the startup option.

User response: This message is for your information only, and no action is required.

ASN0530E  pgmname : program_qualifier : The program could not connect to database database_name with USERID user_id. The SQLCODE is sql_code.

Explanation: An error occurred when the program issued one of the following functions:

- A CONNECT function to DB2 for VSE and VM
- A CONNECT function to DB2 Call Attachment Facility (CAF)
- An implicit connect to DB2

User response: See the DB2 codes in the messages and codes publication of the DB2 database manager on your operating system for the appropriate reason code.

For DB2 for z/OS errors, see the section in the administration guide that describes the Call Attachment Facility. Contact your DBA for questions and diagnosis.

If you are running the program under DB2 for Linux or UNIX, ensure that the LIBPATH environment variable is set to the same environment in which the program starts.

ASN0531E  pgmname : program_qualifier : The program could not open the plan. The SQL return code is return_code, the reason code is reason_code, the subsystem name is DB2_subsystem, and the plan name is plan_name.

Explanation: An error occurred when the program tried to open the plan, ASNLPLAN.

User response: See the DB2 Codes section in the messages and codes publication of the DB2 database manager on your operating system to find the appropriate reason code. See the section in the administration guide that describes the Call Attachment Facility.

ASN0532E  pgmname : program_qualifier : DB2 release release_number is not supported.

Explanation: The program does not support this release of DB2.

User response: Run the program with the appropriate release of DB2.

ASN0533E  pgmname : program_qualifier : DB2 was terminated abnormally.

Explanation: DB2 was terminated while the program was still active.

For z/OS, VSE/ESA, or VM/ESA, DB2 was terminated while program was active and the user did not specify the NOTERM invocation parameter.

User response: Start DB2 and start the program.
ASN0534E  pgmname : program_qualifier : DB2 database cannot be used, because it is in the state state.

Explanation:  DB2 was terminated while the program was still active. The database is in one of the following states: UNDETERMINED, TERMINATED, QUIESCED, ROLLWARD, or ACTIVE.

User response:  Start DB2, and then start the program.

ASN0535E  pgmname : program_qualifier : The program could not disconnect from the database db_server. The return code is return_code, and the reason code is reason_code.

Explanation:  While terminating the connection to DB2, the program received an error code from the Call Attachment Facility (CAF).

User response:  Restart the program.

ASN0536E  pgmname : program_qualifier : An error was returned while getting the instance name. The SQLCODE is sqlcode.

Explanation:  The SQLENGS API of DB2 returned an error.

User response:  See the DB2 API Reference for information about the SQLENGS API to determine the error, or contact IBM Software Support.

ASN0537E  pgmname : program_qualifier : The program could not connect to database database_name, the return code is return_code, and the reason code is reason_code.

Explanation:  An error occurred when the program issued one of the following functions:

1. A CONNECT function to DB2 for VSE and VM
2. A CONNECT function to DB2 Call Attachment Facility (CAF)
3. An implicit connect to DB2

User response:  See the DB2 codes in the messages and codes publication of the DB2 database manager on your operating system for the appropriate reason code.

For DB2 for z/OS errors, see the section in the administration guide that describes the Call Attachment Facility. Contact your DBA for questions and diagnosis.

If you are running the program under DB2 for Linux or UNIX, ensure that the LIBPATH environment variable is set to the same environment in which the program starts.

ASN0538I  pgmname : program_qualifier : The program is waiting for DB2 to start.

Explanation:  When the program is initially started, if DB2 is stopped the program waits until DB2 starts.

After DB2 starts, the Capture program makes the connection and begins to capture changes.

If the TERM=N option is specified in the Capture invocation parameters and DB2 stops smoothly, the Capture program waits for DB2 to start.

User response:  This message is for your information only, and no action is required.

ASN0539E  program_name : program_identifier : The Capture program did not start. You must first configure the logarchmeth1 or logarchmeth2 database configuration parameter for database database_name to support archival logging.

Explanation:  The Capture program tried to start but the source database was not configured properly for Capture to use the log read interface.

User response:  Take the following steps:

1. Review the settings for the logarchmeth1 and logarchmeth2 database configuration parameters. If both parameters are set to OFF, enable recoverable logging by setting the logarchmeth1 or logarchmeth2 database configuration parameter to a value other than OFF.
2. Use the backup command to back up the database before using it with any application.

ASN0540E  pgmname : program_qualifier : The program was not able to execute the autobind operation successfully on package pkg_name from the file path_filename. The SQLSTATE sqlstate was returned.

Explanation:  The program discovered that a bind or rebind is required in order to run. The program attempted to autobind, and the autobind was unsuccessful. The program failed to initialize.

User response:  Check for corresponding database messages that might provide additional details about the source of the autobind failure. Possible problems include authorization failures, missing or incorrect control tables, or bind files that do not match the program. Correct the situation, and restart the program.

ASN0541E  pgmname : program_qualifier : An incorrect value column_value was supplied for column column_name of the program parameter table parms_table.

Explanation:  This message is issued during initialization of the Capture program if the validation
of the IBMSNAP_CAPPARMS table found that one of the parameter value settings is not valid. The Capture program terminates with this error.

**User response:** Check the documentation for permitted parameter values allowed in this table. Correct the values and restart the Capture program.

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**ASN0542E**

**Explanation:** The program has internally retried a time-out or deadlock condition multiple times. If the program task that receives the persistent lock condition is critical, such as a worker thread, the whole program terminates. If the program task is not critical, such as pruning or monitoring, then the task will be retried at a later time, and the program remains active.

**User response:** Check for corresponding database messages that might provide additional detail about the source of the locking contention. Correct the situation if the error is a user error, such as a user held lock. If the condition persists, contact IBM Software Support for assistance.

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**ASN0543E**

**Explanation:** The program is unable to obtain memory for a necessary in-memory storage structure.

**User response:** Consider allocating more memory to the program, then restart the program.

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**ASN0544E**

**Explanation:** An attempt was made to start more than one Capture program per DB2 subsystem or database.

**User response:** Ensure that the schema or qualifier is specified correctly.

- For DB2 for z/OS subsystems, either run only one instance of the Capture program for all subsystems that are members of a data-sharing group, or run only one instance of the Capture program on any standalone system. Display the ENQ resource to determine the unique resource name violation.
- For other DB2 database platforms, run only one Capture program per database using a given schema.

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**ASN0545E**

**Explanation:** The program cannot find the password file. The user specifies the password filename through the PWDFILE parameter. If the user specifies a path startup parameter, the password file should reside in the specified directory. If the user did not specify a path startup parameter, the password file should reside in the current directory in which the program is running.

**User response:** Ensure that the password file name is correctly specified and is located in the proper directory.

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**ASN0546W**

**Explanation:** The Capture or Apply program cannot connect to, disconnect from, or receive a ready status indication from the Automatic Restart Manager (ARM). The message displays the unsuccessful call and the return or reason code that returned to the program from the ARM. The program does not terminate but cannot continue ARM processing.

**User response:** Check the Automatic Restart Manager documentation for more information about the cause of this failure.

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**ASN0547I**

**Explanation:** The program code and the program message file do not match; the release level of the program and the message file catalog might not match.

**User response:** Verify that the program message file is correctly installed with the appropriate file permission settings.

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**ASN0548I**

**Explanation:** This informational message indicates that a stop command was issued to the program.

**User response:** This message is for your information only, and no action is required.

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**ASN0552E**

**Explanation:** The program encountered an SQL error. The server name is **server_name**. The SQL request is **sql_request**. The table name is **table_name**. The SQLCODE is **sqlcode**. The SQLSTATE is **sqlstate**. The SQLERRMC is **sql_tokens**. The SQLERRP is **error_module**.
Explanation: A nonzero SQLCODE returned when the Capture, Apply, or Monitor program issued an EXEC SQL statement or CLI call. This SQLCODE might be caused by a DB2 problem that needs to be investigated, such as, an out of space condition, or DB2 is unavailable for use by applications. This message is sometimes followed by a second message that provides information about what replication was doing when this SQLCODE was encountered.

User response: See the messages and codes documentation of the DB2 database manager on your operating system for an explanation of this SQLCODE and for information about corrective actions that might need to be taken in DB2. If replication issued another message immediately following this one, see the explanation and user response for that message.

ASN0553W  pgmname : program_qualifier : Internal  
error error_number occurred for message number msg_number containing num_tokens substitution fields:
sub_tokens.

Explanation: The error_number is a decimal internal error number which is defined as:

1  Instance is not valid
2  Access denied
3  No files
4  No message
5  Locale is not valid
6  System error
7  Not enough memory

The msg_number is the message that the program was trying to issue. The num_tokens is the number of substitution tokens given for the message (not including the pgmname and program_qualifier tokens). The sub_tokens is the substitution tokens for the message in error separated by commas.

User response: Take any corrective action possible based on the error code given. For example, if the message file was not found or could not be accessed, you should also see message ASN0513 which gives you the file name. Verify that the message file exists with the correct permissions. If you get error code 4, you might have an old message file.

ASN0554E  pgmname : program_qualifier : The program encountered a DB2 log full condition on server server_name.

Explanation: The program tried to process an insert or update which was denied by DB2 because the DB2 transaction log is full. The program will stop processing.

User response: Check the amount of space remaining on the file system that contains your database files. Consider increasing the maximum log size in the database configuration file.

ASN0555W  pgmname : program_qualifier : The program cannot register with Automatic Resource Manager (ARM) because it is not APF authorized.

Explanation: The Capture, Apply or Monitor program cannot register to use Automatic Resource Manager services because the program libraries are not APF authorized.

User response: If you desire Capture, Apply, or Monitor program to register with Automatic Resource manager, authorize the program libraries for APF and restart the program.

ASN0556E  pgmname : program_qualifier : A registration that is not valid was found. The CD table phys_chg_owner,phys_chg_tbl does not have any columns that match the base table source_owner,source_table.

Explanation: The Capture program tried to initialize a registration and found that the CD table does not have any columns that match the source table. Nothing can be captured for this registration, and therefore it is considered not valid. The registration remains inactive if the STOP_ON_ERROR column in the register (IBMSNAP_REGISTER) table for this registration is set to N, otherwise, the Capture program stops.

User response: Make sure that there is at least one column in the CD table that matches the source table for the registration.

ASN0557E  pgmname : program_qualifier : The value column_value for column column_name of owner.table with source table source_owner,source_table, is not valid.

Explanation: The Capture program tried to initialize a registration and found a value that is not valid for a column in the IBMSNAP_REGISTER table.

User response: Correct the value for the column in error.

ASN0558E  pgmname : program_qualifier : The parameter table parameter_table can have only one row corresponding to program qualifier program_qualifier.

Explanation: The program parameters table was not defined correctly or was updated with rows that are not valid.

User response: Ensure that there is only one row in the parameter table corresponding to the
program_qualifier. Ensure that the parameters table has a unique index on the program qualifier.

ASN0559W  pgm_name : program_qualifier : The job was started with a CPU time limit of xx seconds. The program will terminate when the time limit expires.

Explanation: For z/OS only. The job was started with a CPU time limit of xx seconds. The program will terminate when the time limit expires.

User response: To run the program continuously, cancel the current job. Resubmit the job specifying NOLIMIT or 1440 as the new job limit.

ASN0560E  pgm_name : program_qualifier : The program is unable to create db_object object_name in database db_name

Explanation: The program is unable to create the database object in the database. The database object is being created in the same object table space as the server control tables.

User response: Review the SQL error code that is related to this error message and take the appropriate action.

ASN0561W  program_name : program_identifier : The program's application code page application_code_page is not the same as the code page database_code_page of database database_name.

Explanation: For Linux, UNIX, Windows, and iSeries: The Capture program's application code page is different from the code page of the source database. Unless the two code pages are compatible, this difference can result in corrupted data or unexpected errors when the Capture program inserts data into CD tables.

User response: If the code pages are compatible, no action is required. If the code pages are incompatible, stop the Capture program, change the Capture program's application code page to the code page of the database, and restart the Capture program.

ASN0562E  pgmname : program_qualifier : An error occurred when checking to see whether the program is already running. The Return code is return_code. The error message is error_message. The operation is operation.

Explanation: An error occurred while checking to see whether the program is already running. The following values are valid return codes:

1  On Windows, the program encountered an error while trying to create a semaphore.

2  On UNIX, the HOME environment variable was not found.

3  The mkdir command failed trying to create the HOME/sqllib directory.

4  The mkdir command failed trying to create the HOME/sqllib/dpropr directory.

5  The fgets operation failed to read a row from the pid file.

6  The ps command failed.

7  An error occurred while removing the grp file.

8  An error occurred while reading the grp file.

9  An error occurred while opening the pid file.

10  The fprintf command finished in error for the pid file.

User response: Review the reason codes in the explanation, and respond with the following options:

1  This is an internal error on Windows. See the Windows Reference.

2  On UNIX, verify that the HOME environment variable is set to the correct value.

3-10  Ensure that you have the right authorizations to create directories and files in the current HOME path.

ASN0563W  pgmname : program_qualifier : The parameter parameter-1 is not compatible with parameter parameter-2. The parameter parameter-1 will be ignored.

Explanation: The program was started with both parameters specified in the command or in the parameters table. These parameters are not compatible. One parameter was ignored when the program started and continued to run.

User response: The next time you start the program, specify only the parameter that you want the program to use.

ASN0564I  pgmname : program_qualifier : The program could not perform the sql_request operation on the control table control_table_name to support long schema, owner, and table names. The server name is server_name. The SQLCODE is sqlcode. The SQLSTATE is sqlstate. The SQLERRMC is sql_token. The SQLERRP is module_name.

Explanation: The Capture, Apply, or Monitor control table is defined on a Version 8 new-function mode DB2 subsystem. The control table includes columns that do not support long schema, owner, and table names. The program attempted to convert the control table to support long schema, owner, and table names and the
operation was unsuccessful. The replication program continues to run.

**User response:** See the DB2 for z/OS messages and codes documentation for an explanation of the SQLCODE and for information about corrective actions that might need to be taken in DB2. If the SQLCODE is -551, do one of the following:

- Grant the user ID that starts the Capture, Apply, or Monitor program the ALTER privilege on the control table
- Run AASNSAMP member(ASNM2V8) to ALTER all replication control tables to support long schema, owner, and table names.

**ASN0565E**  
*program_name : program_identifier : The program cannot insert statistics into the table table_name. The SQL return code is sqlcode. The data for this interval will be skipped and included in the next interval.*

**Explanation:** The program maintains statistics about its activities, but it could not save this data in the table due to an unexpected SQL code. The program will attempt to insert the data again at the next interval.

**User response:** If the SQL return code indicates a temporary error, no action is required. Otherwise, take action as indicated for the SQL error in the DB2 Information Center.

**ASN0566E**  
*program_name : program_identifier : Pruning of table table_name failed with SQL return code sqlcode.*

**Explanation:** Pruning failed with an unexpected SQL error code. This error does not cause the program to terminate. The program will try to prune the table again at the next pruning interval or when the program is restarted.

**User response:** If this SQL return code indicates a temporary error, then no action is required. Otherwise, take action as indicated for the SQL error in the DB2 Information Center.

**ASN0567I**  
*program_name : program_identifier : number rows were pruned from table table_name.*

**Explanation:** See message text.

**User response:** This message is for your information only. No action is required.

**ASN0568E**  
*program_name : program_identifier : An ICU error occurred while translating character data from code page code_page. The ICU function is function_name using converter for CCSID CCSID. The ICU return code is return_code. The expected ICU version is version_number. Details: details.*

**Explanation:** Incompatible versions of ICU (International Components for Unicode) were encountered. The ICU function is the ICU API name. The return code was returned by this API. The details about the ICU operation are provided by the Q Capture program.

**User response:** Ensure you have the correct version of ICU and try restarting the program.

**ASN0569E**  
*program_name : program_identifier : The program encountered an internal error error_code. The program will terminate.*

**Explanation:** An unexpected error occurred in the program.

**User response:** See "Collecting data for InfoSphere Replication Server and InfoSphere Data Event Publisher" for information on how you can assist in troubleshooting this problem.

**ASN0571E**  
*program_name : program_identifier : The program cannot start because the parameter table table_name is empty or it contains more than one row.*

**Explanation:** The program parameter table must have exactly one row.

**User response:** Use the sample migration scripts in the sqllib/samples/repl directory for the DDL statements to redefine the content of the parameter table so that it contains exactly one row.

**ASN0572I**  
*program_name : program_identifier : The version program initialized successfully.*

**Explanation:** See message text.

**User response:** This message is for your information only. No action is required.

**ASN0573I**  
*program_name : program_identifier : The program was stopped.*

**Explanation:** See message text.

**User response:** This message is for your information only. No action is required.
ASN0574E  program_name : program_identifier : The WebSphere MQ queue manager queue_manager_name is not available or it was not started. The program will terminate.

Explanation: The program cannot connect to the WebSphere MQ queue manager. This error causes the program to terminate.

User response: Start the queue manager if it is not running, for example by using the strmqm command. You can also look at "2059 (080B) (RC2059): MQRC_Q_MGR_NOT_AVAILABLE" in the WebSphere MQ Information Center for other details.

ASN0575E  program_name : program_identifier : The program encountered a WebSphere MQ error reason_code while issuing the WebSphere MQ command command on object name.

Explanation: A nonzero WebSphere MQ reason code was returned when the program issued an WebSphere MQ command. The reason code indicates that there is a WebSphere MQ problem (for example, storage is not available for WebSphere MQ objects) or that WebSphere MQ is not available.

The ERROR_ACTION value determines how the program behaves due to this error. The value for the Q Capture program is stored in the IBMQREP_SENDQUEUES table. The value for the Q Apply program is stored in the IBMQREP_TARGETS table.

User response: See the reason code documentation in the WebSphere MQ Application Programming Reference for an explanation of this WebSphere MQ reason code and for information about actions that you might need to take. The following list provides information about possible actions that are specific to Q Replication.

2003 (X'07D3') MQRC_BACKED_OUT (Linux, UNIX, Windows)

If Q Capture receives this reason code, it might indicate that the size of your queue manager log is not large enough to handle the workload that Q Capture generates, especially if large transactions are being replicated. The queue manager log is used for recovery; the queue manager also has an error log. To determine if queue manager log size is a problem, check the queue manager error log for messages that indicate that the queue manager log became full (for example, message AMQ7469). By default, the queue manager error log is in a directory that has the following path: MQ_install_directory/queue_manager_name/errors. The error log files have names like AMQERR01.LOG. You can increase the size of the queue manager log by increasing the values of the following three queue manager properties: LogPrimaryFiles, LogSecondaryFiles, LogFilePages. For example, you might want to make sure that these properties are no smaller than the following:

• LogPrimaryFiles: 15
• LogSecondaryFiles: 10
• LogFilePages: 1024

ASN0576E  program_name : program_identifier : The program cannot access the WebSphere MQ queue queue_name.

Explanation: Either the queue does not exist or it is specified incorrectly in the control tables. The program terminated as a result of this error.

User response: Ensure that the queue name is specified correctly in the control tables and that it is accessible to application programs. Create the queue if it does not exist.

ASN0580E  program_name : program_identifier : The license for product product_name was not found.

Explanation: The program terminated because it cannot run without a license.

User response: Install the program license or contact your IBM representative.

ASN0581W  program_name : program_identifier : The program was not able to initialize a connection to name because Recoverable Resource Manager Services (RRS) is not started. The program will attempt to use Call Attach Facility (CAF) instead.

Explanation: With RRS/AF, you must first issue an Identify request. The request failed because the RRS service in z/OS was not started.

User response: No action is required because the program will run correctly with CAF. However, if you want the program to use RRS/AF, you must first make sure RRS is started, and then restart the program.

ASN0582I  program_name : program_identifier : The program was suspended by an operator command.

Explanation: An operator command has suspended the program, and the program has entered a wait state.

User response: This message is for your information. No action is required.
ASN0583I  program_name : program_identifier : The program was resumed by an operator command.

Explanation: An operator command has resumed the program from a suspended state, and the program has continued running.

User response: This message is for your information. No action is required.

ASN0584E  program_name : program_identifier : An error occurred while the program was dynamically loading the WebSphere MQ library library_name. Error code: error_code, error_description. Environment variable ASNUSEMQCLIENT is set to value.

Explanation: An error occurred when trying to dynamically load a WebSphere MQ library.

User response: If the environment variable ASNUSEMQCLIENT is set to TRUE, the WebSphere MQ client libraries are used; otherwise the WebSphere MQ server libraries are used. The server libraries are also used if the environment variable ASNUSEMQCLIENT is not set. If the server configuration is used, then ensure that the WebSphere MQ server is running on the local host. If the client configuration is used, then make sure that this host can communicate with the remote host that the server is running on.

If you did not install WebSphere MQ in the default location, ensure that the library path variable (for example LIBPATH on AIX, LD_LIBRARY_PATH on SUN OS, SHLIB_PATH on HPXU, and PATH on Windows) points to the correct installed path. If you have multiple versions of WebSphere MQ, make sure the variable points to the correct version.

ASN0587I  program_name : program_identifier: The thread is retrying to connect with the WebSphere MQ queue manager.

Explanation: The WebSphere MQ queue manager is not currently available. The thread is retrying to connect.

User response: Restart the WebSphere MQ queue manager if it was not active.

ASN0588I  program_name : program_identifier: The program timed out while it was attempting to connect to database database_name.

Explanation: This message is issued when the program is initializing if the program cannot connect to the server with its control tables. The program shuts down.

User response: Check for database messages that might explain why the program was unable to establish a database connection. Contact the database administrator for questions and diagnosis.

ASN0589I  program_name : program_identifier: The program received return code return_code from routine routine.

Explanation: The program received the stated return code from one of its routines. The return code and routine information might help IBM determine the cause of an error.

User response: This message is for your information. This message is typically preceded by error messages.
which you can view in the program's log file.

**Explanation:** The program received this return code when it stopped one of its threads. The following thread exit return codes are the most common:

- **0**
  
  Thread stopped successfully. There is no reason code.

- **n**
  
  The Apply program encountered n failed cycles.

- **2001**
  
  Thread was stopped by either a stop command or signal.

- **2009**
  
  Thread was stopped by the recovery manager.

- **2010**
  
  Thread was stopped by recursive calls to the recovery manager.

- **2011**
  
  Thread stopped itself without an error.

- **2012**
  
  Thread stopped because of an error.

**User response:** This message is for your information. If this message is displayed with error messages, look in the program's log file that contains the messages.

**Explanation:** The thread received this signal before the thread shut down. The ACTION parameter value is either handled or not handled. The thread recovery function handles signals that it expects and does not handle signals that it does not expect. The HoldLThread normally receives a SIGUSR2 signal before the initial thread shuts the HoldLThread down. Other replication threads receive a SIGUSR1 signal if they are terminated by the initial thread.

**User response:** This message is for your information. If this message is displayed with error messages, look in the program's log file that contains the messages.

**Explanation:** The program could not create an IPC queue with keys key_values for path path_name. OSSE reason is reason.

**User response:** This message is for your information. If this message is displayed with error messages, look in the program's log file that contains the messages.
message queue. If the message queue exists, it tries to remove it and create a new one.

**User response:** If the reason is "Shared memory ID already exists with the given resource ID", perform the following steps to remove the file and its associated message queue manually:

1. Note the key values. The key values will look similar to these:
   
   (0x300667f7, 0x310667f7, 0x320667f7)

2. Log into the server using the user ID that was used to start the replication program.
3. Enter the following command for each of the keys in the ASN0594I message:
   
   `ipcs grep | 0x300667f7`

   If a key is located, note its IPC resource type, ID, and owner. The IPC resource type (m, q, or s) will be in the first column of the IPCS output on UNIX and z/OS servers. The IPC resource type will be identified by a header line on LINUX servers.

4. If the keys are not located, log into the server using the superuser ID and enter the IPCS command in step 3 for each of the keys.
5. Log into the server using the user ID that owns the IPC resources that was located in the steps above. If the key identifies a shared memory segment, enter the following command to remove the shared memory segment:
   
   `ipcrm -m ID`

   If the key identifies a semaphore, enter the following command to remove the semaphore:
   
   `ipcrm -s ID`

   If the key identifies a message queue, enter the following command to remove the message queue:
   
   `ipcrm -q ID`

6. Log into the server using the user ID that owns the file specified by the PATHNAME parameter value. Enter a command to remove the file, as in this example:
   
   `rm /tmp/dpropr5.SRCDB.TIMING03.APP.IPC`

---

**ASN0597I**  
*program_name: program_identifier*  
*The program could not attach to an IPC queue with keys key_values for path path_name. OSSE reason is reason.*

**Explanation:** The program is not able to attach to a replication IPC command message queue. Replication command programs use message queues to communicate with the programs that they operate. The program that owned the message queue might not be running.

**User response:** This message is for your information. No action is required.
ASN0602I  program_name : program_identifier : The program could not read from its IPC queue with keys keys for path path. Error code is error_code.

Explanation: The program is not able to read a message from its IPC command message queue. Replication command programs use message queues to communicate with the programs that they operate. The program that owned the message queue may no longer be running.

This message is issued as a follow-on message to error message ASN0508E and contains the error code that provides additional diagnostic information.

User response: This message is for your information. No action is required.

ASN0603E  program_name : program_identifier : Active Q subscriptions exist, but the license for WebSphere Replication Server was not found.

Explanation: The Q Capture program terminated because active Q subscriptions exist, but a license for replication was not found. This situation can happen for one of the following reasons:

• The program was migrated from Version 8 to Version 9 and a Version 9 license was not installed.
• A try-and-buy license expired.

User response: Install a license for WebSphere Replication Server.

ASN0604E  program_name : program_identifier : Active publications exist, but the license for WebSphere Event Publisher was not found.

Explanation: The Q Capture program terminated because active publications exist, but a license for event publishing was not found. This situation can happen for one of the following reasons:

• The program was migrated from Version 8 to Version 9 and a Version 9 license was not installed.
• A try-and-buy license expired.

User response: Install a license for WebSphere Event Publisher and restart Q Capture before activating any publications.

ASN0605E  program_name : program_identifier : Neither the license for WebSphere Replication Server nor the license for WebSphere Event Publisher was found.

Explanation: The Q Capture program terminated because a valid license was not found. This situation can happen for one of the following reasons:

• A license was never installed.

User response: Install a license for WebSphere Event Publisher and restart Q Capture before activating any publications.

ASN0606I  program_name : program_identifier : The program successfully loaded the library library_name.

Explanation: This message appears after a successful start of the replication program.

User response: This message is for your information only. No action is required.

ASN0607E  program_name : program_identifier : Unable to load the library library_name. Error code is error_code. Error message is error_message.

Explanation: The program encountered an error while loading the replication library.

User response: Verify that the library exists in the specified path.

ASN0608I  Replication code uses "64" bits. Informational tokens are "DB2 v9.1.0", "n060704", "WR21350", and FixPak "1". DB2 instance path is "/home/inst1/sqllib". Replication path is "/home/inst9/sqllib".

Explanation: This message appears after invoking the asnivel program.

User response: This message is for your information only. No action is required.

ASN0609W  program_name : program_identifier : A license for WebSphere Event Publisher was not found.

Explanation: The Q Capture program found a license for replication, but did not find a license for event publishing. The Q Capture program does not terminate because no active publications were found. Q Capture will not be able to activate new publications.

User response: If you plan to create and activate publications, install a license for WebSphere Event Publisher. Otherwise, no action is required.

ASN0610W  program_name : program_identifier : A license for WebSphere Replication Server was not found.

Explanation: The Q Capture program found a license for event publishing, but did not find a license for
replication. The Q Capture program does not terminate because no active Q subscriptions were found. Q Capture will not be able to activate new Q subscriptions.

**User response:** If you plan to create and activate Q subscriptions, install a license for WebSphere Replication Server.

---

ASN0612E  
**program_name : program_identifier** : The publication **publication_name** was not activated because a license for WebSphere Event Publisher was not found.

**Explanation:** The Q Capture program does not activate an publication unless it finds a license for event publishing. The Q Capture program does not terminate. This situation can happen for one of the following reasons:

- A event publishing license was never installed.
- The program was migrated from Version 8 to Version 9 and a Version 9 event publishing license was not installed.
- A try-and-buy license expired.

**User response:** Install a license for WebSphere Event Publisher.

---

ASN0613E  
**program_name : program_identifier** : The Q subscription **Q_subscription_name** was not activated because a license for InfoSphere Data Replication was not found.

**Explanation:** The Q Capture program does not activate a Q subscription unless it finds a license for replication. The Q Capture program does not terminate. This situation can happen for one of the following reasons:

- A replication license was never installed.
- The program was migrated from Version 8 to Version 9 or Version 10 and a Version 9 or Version 10 replication license was not installed.
- A try-and-buy license expired.

**User response:** Install a license for InfoSphere Data Replication.

---

ASN0614E  
**program_name : program_identifier** : A license for InfoSphere Data Replication was not found.

**Explanation:** The Q Apply program terminated because a valid license was not found. This situation can happen for one of the following reasons:

- The license was never installed.
- The program was migrated from Version 8 to Version 9 or Version 10 and a Version 9 or Version 10 license was not installed.

---

 ASN0615E  
**program_name : program_identifier** : The program could not call dynamic function **function_name** because the function could not be dynamically loaded from any of these libraries: libraries.

**Explanation:** The program tried to call a dynamic link library (DLL) function but could not because either the program could not load a library with that function or the function address could not be resolved from the library that was loaded.

**User response:** Make sure that the libraries exist and are specified in STEPLIB on the z/OS operating system or the library path environment variable specific to your Linux, UNIX, or Windows system.

---

ASN0616E  
**program_name : program_identifier** : The program cannot load any of these dynamic link libraries (DLLs): libraries. The operating system error number for all of the DLLs that the program tried to load is error_number.

**Explanation:** The program tried to load the dynamic link libraries (DLLs) that are listed but received the operating system error that is listed.

**User response:** Correct the operating system error and start the program.

---

ASN0617E  
**program_name : program_identifier** : Function **function_name** was not exported from dynamic link library (DLL) **library_name**. The OSSe (Operating System Service Everywhere) return code is return_code. The OSSe return code description is description.

**Explanation:** The program could not resolve the address of the function in the listed DLL because the DLL did not export the function.

**User response:** Remove the listed DLL from the STEPLIB so that the program can try a DLL with a different version.

---

ASN0618W  
**program_name : program_identifier** : The program cannot use Unicode Conversion Services (UCS) for conversion from coded character set identifier (CCSID) identifier to CCSID identifier. The UCS return code is return_code. The UCS reason code is reason_code.

**Explanation:** The program could not use UCS to convert data between the listed CCSIDs. The program
will try to use the International Components for Unicode (ICU) character set for the conversion.

User response: If neither UCS nor ICU can be used for conversion, take the necessary steps to enable either UCS or ICU for the listed CCSIDs.

---

ASN0619W  program_name : program_identifier : The program cannot use Unicode Conversion Services (UCS) or International Components for Unicode (ICU) to convert data from coded character set identifier (CCSID) identifier to CCSID identifier.

Explanation: The program tried to use both UCS and ICU to convert data between the listed CCSIDs, but was unable to use either method for conversion.

User response: Take the necessary steps to enable either UCS or ICU for the listed CCSIDs.

---

ASN0620E  program_name : program_identifier : The program log read failed with reason code reason_code. The log record that could not be read has log sequence number (LSN) lsn and is for table table_name.

Explanation: The replication capture program received an error from the database log read API while getting a log record for the table.

User response: Use the reason code to determine the database log read error. Look for messages that were issued by the database, and look for subsequent capture messages that may give you more information about the error.

---

ASN0621E  program_name : program_identifier : The program could not read a log record for table table_name because the edit routine (EDITPROC) that was used to encode the contents of the row could not be called by DB2 to decode the row contents.

Explanation: Replication supports tables with EDITPROC definitions. The database log read API invokes the EDITPROC to decode the row contents before returning them to the replication capture program. The API could not use the EDITPROC to decode the row contents. Depending on the error action option specified, capture may stop or deactivate the subscription or registration.

User response: Determine why the log read API could not use the EDITPROC to decode the row contents. Look for messages from the database that may give you more information about the error.

---

ASN0622W  program_name : program_identifier : The program is not connected to database database_name. The current server is current_server.

Explanation: The program explicitly connected to the database server, but the database server was not the current server after the connection executed.

User response: Look for database-issued messages on the system console that may give you more information about the error.

---

ASN0623E  program_name : program_identifier : The thread_name thread is unable to lock a mutex for the list_name list. The error number is error_number. The reason is reason. The lock holder, lock_holder, has locked the mutex number number times.

Explanation: The program thread is unable to lock a mutex for a list.

User response: This message is for your information only.

---

ASN0624E  program_name : program_identifier : The thread_name thread is unable to unlock a mutex for the list_name list. The error number is error_number. The reason is reason. The lock holder, lock_holder, has locked the mutex number number times.

Explanation: The program thread is unable to unlock a mutex for a list.

User response: This message is for your information only.

---

ASN0625W  program_name : program_identifier : ODBC function function_name completed with return code return_code, SQL state SQL_state, and native database completion code completion_code.

Explanation: Replication supports use of ODBC functions to access certain databases. An ODBC function has completed with an unsuccessful return code that may or may not result in an error condition to replication. A diagnostic message follows with message text from the native database.

User response: Check later messages to determine if a subsequent error condition occurred in replication. The information in these messages might help determine the cause of the error. Correct the problem as appropriate.
ASN0626E  program_name: program_identifier: The Q Apply program encountered an error while it was creating a file on the target server to temporarily store Classic replication source data before loading a target table (routine_name, function, dataset_name, dataset_type, error).

Explanation: During the target table loading process for Classic replication, the Q Apply program creates a temporary intermediate file on the target server to place data that it selects from the source table. The Q Apply program then reads from the file before inserting the data into the target. The user ID that runs the Q Apply program must have the authority to create this file.

User response: Make sure the user ID that is running the Q Apply program has the authority to create the file and that there is enough disk space on the target server to create the file. Use the error information in the message to determine other reasons that the file could not be created.

ASN0627E  program_name: program_identifier: The program stopped because column column_name is missing from the control table table_name.

Explanation: A required column is missing from a control table. This message only reports the first missing column; other columns might also be missing. The missing columns are likely to be columns that were added to the control tables for a new version, which indicates that the control tables need to be migrated.

User response: If you installed a new version but did not migrate the control tables, run the necessary migration scripts and start the program.

ASN0628E  program_name: program_identifier: The column option option for source column column_name, which is part of Q subscription or publication name, has an invalid value value.

Explanation: The specified value is not valid for the column option.

User response: Ensure that the column option is specified correctly in the publication or Q subscription. Use the replication administration tools to perform the following steps:
1. Drop the Q subscription or publication and recreate it with a valid value for the column option.
2. Start the Q subscription or publication.

ASN0629E  program_name: program_identifier: The program has encountered an unsupported data type data_type while trying to activate a registration, Q subscription, or publication.

Explanation: The program found one or more columns in the source table that are defined with unsupported data types. Replication of the XML data type for Q Replication requires a COMPATIBILITY value in the IBMQREP_CAPPARMS table of 0905 or higher.

User response: Redefine the registration, Q subscription, or publication without the columns that contain unsupported data types. For source tables with the XML data type, ensure that the Q Capture program is at Version 9.5 or higher and that the COMPATIBILITY value is 0905 or higher.

ASN0630E  program_name: program_identifier: The column option option for source column column_name, which is part of Q subscription or publication name, has an invalid value value.

Explanation: The specified value is not valid for the column option.

User response: Ensure that the column option is specified correctly in the publication or Q subscription. Use the replication administration tools to perform the following steps:
1. Drop the Q subscription or publication and recreate it with a valid value for the column option.
2. Start the Q subscription or publication.

ASN0631E  program_name: program_identifier: The program could not load field procedure procedure_name for source table table_owner.table_name, column column_name, z/OS returned system completion code completion_code and reason code reason_code. The program stopped.

Explanation: The Capture or Q Capture program tried to load the user-specified field procedure to decode data in the source column because the column is defined with this field procedure. An error occurred that prevented the program from calling the procedure.

User response: Correct the error that is indicated by the system completion code and reason code and warm start Capture or Q Capture. The system completion code and reason code are explained in MVS System Codes.

ASN0632E  program_name: program_identifier: The field procedure for source table table_owner.table_name, column column_name detected an error. The field procedure returned return code return_code and reason code reason_code. The program stopped.

Explanation: The user-specified field procedure detected an error while decoding data in the column. An error message from the field procedure might follow this message.

User response: Correct the error that is indicated by the return and reason codes and warm start Capture or Q Capture. The meanings of the return and reason codes are defined by the field procedure.
ASN0633W  program_name : program_identifier : The Q Capture or Capture program has detected either a long-running transaction or possible problem. The program read a log record for the start of transaction transaction_ID at timestamp. But the program has not seen a commit or rollback log record for the transaction for number seconds. The authorization ID is auth_ID. The correlation ID is corellid. The starting log sequence number for the transaction is LSN. Q Capture or Capture has captured up to LSN LSN.

Explanation: The program captured the start of the transaction but has not seen its commit or rollback log record for more than an hour. This might or might not be a problem.

User response: If this is a long-running transaction, ignore this message. On z/OS, you can use the DSN1LOGP utility to format the contents of the recovery log and determine whether it is a long-running transaction.

ASN0634W  program_name : program_identifier : The transaction transaction_ID has not been committed for more than timestamp seconds. The initial log sequence number for the transaction is LSN. The authorization ID is authid. The correlation ID is corellid.

Explanation: In addition to the oldest uncommitted transaction that was mentioned in ASN0633W, this message indicates a transaction for which the Q Capture or Capture program has not seen a commit or rollback log record for more than an hour.

User response: If this is a long-running transaction, ignore this message. On z/OS, you can use the DSN1LOGP utility to formats the contents of the recovery log and determine whether it is a long-running transaction.

ASN0635I  program_name : program_identifier : The Q Capture or Capture program will ignore transactions that are identified by authorization ID authid, authorization token authtoken, and plan name planname.

Explanation: The Q Capture or Capture program will ignore log records for transactions that are identified by the values that were inserted into the AUTHID, AUTHTOKEN, and PLANNAM columns of the IBMQREP_IGNTRAN table.

User response: This message is for your information only. No action is required.

ASN0636W  program_name : program_identifier : The program could not connect to database database_name. The reason code is reason_code.

Explanation: An error occurred when the program issued one of the following functions:
- A CONNECT to DB2 for VSE and VM
- A CONNECT to DB2 Call Attachment Facility (CAF)
- An implicit connect to DB2

User response: See the DB2 codes in the messages and codes publication of the DB2 database manager on your operating system for the appropriate reason code. For DB2 for z/OS errors, see the section in the administration guide that describes the Call Attachment Facility.

ASN0637I  program_name : program_identifier : Spilling was stopped to avoid exceeding the file size limit for file_name.

Explanation: The Q Capture or Capture program was spilling an in-memory transaction to a file to relieve memory. Spilling was stopped because the file size reached the internal limit of 1 GB. Spilling might be resumed to a new file if memory is depleted again. No data is lost.

User response: This message is for your information only. No action is required.

ASN0638W  program_name : program_identifier : One or both of the DB2 instance-level variables DB2_SKIPINSERTED=ON or DB2_SKIPDELETED=ON is set and could interfere with replication.

Explanation: When DB2_SKIPINSERTED=ON or DB2_SKIPDELETED=ON is set for the DB2 instance, a select statement does not return rows that are inserted and deleted but not yet committed, even under the cursor stability isolation mode. The following results are possible:
- When you start a subscription that has a load phase, rows that are inserted or deleted might not be picked up by the EXPORT utility when the table is loaded at the target and might be missing from the replicated table at the target.
- The asntdiff utility might return inconsistent results.

User response: Suspend any applications that insert into or delete from the source table until a CAPSTART signal for the table has been inserted into the IBMQREP_SIGNAL table. Also, suspend applications when you run the asntdiff utility.
ASN0639W  program_name : program_identifier : One or both of the DB2 instance-level variables DB2_SKIPINSERTED=ON or DB2_SKIPDELETED=ON is set and could cause rows to be lost for source table table_owner.table_name at the target.

Explanation: When DB2_SKIPINSERTED=ON or DB2_SKIPDELETED=ON is set for the DB2 instance, a select statement does not return rows that are inserted and deleted but not yet committed, even under the cursor stability isolation mode. When you start a subscription that has a load phase, rows that are inserted or deleted might not be picked up by the EXPORT utility when the table is loaded at the target and might be missing from the replicated table at the target.

User response: Suspend any applications that insert into or delete from the source table until the Q subscription for the table is started.

ASN0640I  program_name : program_identifier : The program is waiting for the WebSphere MQ queue manager to become available.

Explanation: The Q Capture program is running with the term invocation parameter set to N and Q Capture cannot connect to the WebSphere MQ queue manager. When Q Capture waits until it can either connect to the queue manager or is stopped by a stop command. After Q Capture connects to the queue manager, it continues capturing changes.

User response: This message is for your information only. No action is required.

ASN0641E  program_name : program_identifier : The program is shutting down to avoid an inconsistent state even though the TERM=N parameter was specified. You will need to restart the program.

Explanation: The TERM=N parameter instructs the program to keep running when the DB2 database manager is not available and when the queue manager is not available.

This message was returned because either the DB2 database manager was not available or the queue manager was not available, but when the program temporarily stopped some threads to go into a waiting state, one or more of the threads did not stop gracefully. To avoid an inconsistent state, the entire program stopped.

User response: Restart the program.

ASN0642E  program_name : program_identifier : Compatibility level level is not valid. The Q Capture program stops.

Explanation: The replication programs use the Q Capture compatibility parameter to determine the level of messages that are sent. The compatibility level that was found in the Q Capture control tables is not supported.

User response: Change the compatibility level to a valid value and start the Q Capture program. For information about compatibility, see "Coexistence support in Version 9.7 Q Replication and event publishing."

ASN0643E  program_name : program_identifier : An invalid wildcard pattern pattern was specified in the column_name column of the IBMQREP_IGNTRAN table. The Q Capture or Capture program shuts down to avoid ignoring transactions that you might want to replicate.

Explanation: A single percentage sign (%) was inserted into the IBMQREP_IGNTRAN table. Because this character is treated as a wildcard to represent any number of characters or none, inserting a single % into the table instructs Q Capture to ignore all transactions and is therefore invalid.

User response: Update the IBMQREP_IGNTRAN table with a valid authorization token or plan name (z/OS) or authorization ID (Linux, UNIX, Windows). If the percentage sign is part of the data but is not being used as a wildcard character, use a backslash to escape the wildcard character (\%). Then start the Q Capture or Capture program.

ASN0644W  program_name : program_identifier : A non-NULL value was specified in the column_name column of the IBMQREP_IGNTRAN table. This value was ignored.

Explanation: On Linux, UNIX, or Windows, you can insert transaction identifiers into only the AUTHID (authorization ID) column of the IBMQREP_IGNTRAN table.

User response: 1. Specify a transaction identifier in the AUTHID column.
2. Reinitialize the Q Capture or Capture program.

ASN0646E  program_name : program_identifier : The TZ environment variable is not defined. The program will stop.

Explanation: The replication program requires that the TZ environment variable be set to define the time zone and the offset from Coordinated Universal Time (CUT).
User response: Define the TZ environment variable in one of the following locations:
- `/etc/profile`
- The `.profile` file in the home directory of the user ID that executes the replication program
- A file that is specified by the `LE_CEE_ENVFILE` environment variable. The `LE_CEE_ENVFILE` environment variable enables a list of environment variables to be set from a specified file.

ASN0647E  program_name : program_identifier : The version `version` of the database `database_name` is not supported by this version `version` of the Q Capture or Capture program.

Explanation: Q Capture or Capture do not support capture of changes from this version of database.

User response: See the DB2 Information Center for details about capture support for different database levels.

ASN0648E  program_name : program_identifier : System catalog table `table_name` must be set with DATA CAPTURE CHANGES.

Explanation: The Q Capture or Capture program looks for updates to the system catalog tables to detect `ALTER TABLE ADD COLUMN` and `ALTER TABLE ALTER COLUMN SET DATA TYPE` changes to tables. DATA CAPTURE CHANGES must be enabled for this system catalog table.

User response: Enable DATA CAPTURE CHANGES for the system catalog table.

ASN0649I  program_name : program_identifier : A schema-level Q subscription was created, but a Q subscription name already exists for the source table `table_owner.table_name` that specifies the send or receive queue `queue_name`, replication queue map `queue_map_name`, and is in state `state`. The existing Q subscription will be overwritten.

Explanation: A schema-level Q subscription was created that specifies that all tables with the same schema should be replicated. The program tried to create a Q subscription for the table, but an inactive Q subscription for the table already exists. The program will proceed to create the new Q subscription and overwrite the inactive Q subscription.

User response: This message is for your information only. No action is required.

ASN0650I  program_name : program_identifier : The Q subscription name that uses send queue or receive queue `queue_name` and replication or publishing queue map `queue_map_name` was deleted.

Explanation: When a table with a matching schema-level subscription is dropped, the Q subscription for the table is deleted.

User response: This message is for your information only. No action is required.

ASN0651E  program_name : program_identifier : Column `column_name` of table `table_owner.table_name` was altered. The Q Capture or Capture program at this version cannot automatically replicate data type changes. The program stopped.

Explanation: Q Capture or Capture cannot automatically replicate the results of an `ALTER TABLE` `ALTER COLUMN SET DATA TYPE` statement unless the program is at Version 10.1.

User response: Take the following steps:
1. Reorganize the source table.
2. Alter the matching column in the target table.
3. Redefine the registration or Q subscription to ensure that the source and target columns are correctly mapped.
4. Restart the Q Capture or Capture program.

ASN0652I  program_name : program_identifier : The NMI service initialized successfully. The server listens on socket `socket_number`.

Explanation: The program defined an AF_UNIX socket and is listening for NMI client connection requests.

User response: This message is for your information only. No action is required.

ASN0653I  program_name : program_identifier : The NMI service was stopped on socket `socket_number`.

Explanation: The program received an NMI TERM message and closed all NMI client connections.

User response: This message is for your information only. No action is required.

ASN0661E  program_name : program_identifier : The job was canceled.

Explanation: The job was canceled explicitly by the user or as a result of an unexpected event, such as an ABEND.
User response: Investigate the cause and restart the program.

ASN0662I  program_name : program_identifier : The procedure ADMIN_REVALIDATE_DB_OBJECTS was successfully run on table table_owner.table_name.

Explanation: The program detected that a replication source table was altered and the ADMIN_REVALIDATE_DB_OBJECTS procedure was run to revalidate the table.

User response: This message is for your information only. No action is required.

ASN0663E  program_name : program_identifier : The procedure ADMIN_REVALIDATE_DB_OBJECTS was not successful. The table table_owner.table_name remains in reorg pending state.

Explanation: After a table is altered, the table might be moved to reorg pending state. The table must be revalidated if it is in reorg pending state before any INSERT, UPDATE, or DELETE operations may be performed. The ADMIN_REVALIDATE_DB_OBJECTS stored procedure performs this validation. The call to ADMIN_REVALIDATE_DB_OBJECTS failed and the table remains in reorg pending state.

User response: Manually reorganize the table or ensure that the Q Capture or Capture program has EXECUTE privilege on the ADMIN_REVALIDATE_DB_OBJECTS procedure.

ASN0664W  program_name : program_identifier : The Q Capture or Capture program detected a transaction that exceeded the size size MB that is specified by the warntxsz parameter. The transaction ID is transaction_ID, transaction size is transaction_size MB, authorization ID is auth_ID, authorization token is auth_token, and plan name is plan_name.

Explanation: The Q Capture or Capture program was started with the warntxsz parameter, which prompts the program to issue this warning message when transactions that are about to be replicated exceed a specified size. The size of a transaction has exceeded the warntxsz value. This might or might not be a problem.

User response: If this is an unexpected transaction, you can stop the program and use the provided transaction ID with the ignore_transid or transid runtime parameter to skip the transaction upon restart.

User response: APF-authorize the program load library and restart the program.

ASN0665E  program_name : program_identifier : The program did not start because it must be run from an APF-authorized library to authenticate Network Management Interface (NMI) client connection requests.

Explanation: The program was started with the nmi_enable parameter to enable it to operate as an NMI server. The program must be APF-authorized in this situation.

User response: Refer to the zOS Security Server RACROUTE Macro Reference (SA22-7692-13) for descriptions of the RACROUTE return and reason codes.

ASN0666E  program_name : program_identifier : The replication NMI server is unable to get the NMI client security identity values. The return code is return_code. The error number is error_number. The reason is reason.

Explanation: The program ioctl() SECIGET command did not get the NMI client security identity values because of a system error. The NMI client connection request is denied because the replication NMI server is unable to authenticate the requester’s authorization ID.

User response: See the explanation of system error for the ioctl() C function to determine the cause of the error.

ASN0667E  program_name : program_identifier : The NMI client authentication function received SAF return code return_code from RACROUTE REQUEST=AUTH. The RACF return code is return_code. The RACF reason code is reason_code.

Explanation: The NMI client connection request is denied because the replication NMI server is unable to authenticate the requester’s authorization ID.

User response: Refer to the zOS Security Server RACROUTE Macro Reference (SA22-7692-13) for descriptions of the RACROUTE return and reason codes.

ASN0668I  program_name : program_identifier : The send queue queue_name for replication queue map queue_map_name has the following status: status.

Explanation: A Q Capture QSTATUS command was issued to display the status for this send queue.

User response: This message is for your information only. No action is required.
spilling an in-memory transaction to a file to relieve memory. Spilling was stopped because the file size reached the internal limit of 1 GB. Spilling might be resumed to a new file if memory is depleted again. No data is lost.

User response: This message is for your information only. No action is required.

---

**ASN0674I**

**Explanation:**

The Q Capture or Capture program connects and starts processing the database.

User response: This message is for your information. No action is required.

---

**ASN0675I**

**Explanation:**

The program generated a seed and saved the seed value in the file. The program will generate a key from the seed and use the key to create an IPC queue.

User response: This message is for your information. No action is required.

---

**ASN0676I**

**Explanation:**

The program generated seed value value for file file_name.

User response: This message is for your information. No action is required.

---

**ASN0677I**

**Explanation:**

The Q Capture or Capture program stopped spilling to avoid exceeding the file size limit for the file file_name (transaction identifier trans_ID, authorization ID authid, correlation ID correlid, plan name plan_name).

User response: Remove the IPC file and its associated message queue manually by following the steps in, “Troubleshooting problems with IPC message queues.”

---

**ASN0678I**

**Explanation:**

The program was started with the nmi_enable parameter so that it can operate as an NMI server. A valid NMI socket name must start with a forward slash character (/) and not be longer than 64 characters.
ASN0678E  program_name : program_identifier : The program is terminating because the DB2 for z/OS subsystem subsystem_name is not active and the program was started with the term=y parameter.

Explanation: The term=y parameter causes the program to terminate when DB2 is unavailable.

User response: Take one of the following actions:
- Start the DB2 for z/OS subsystem and then restart the program with term=y.
- Start the program with term=n. The program will start, and then will wait for the subsystem to become active before the program begins to replicate data.

ASN0679E  program_name : program_identifier : The program is terminating because the DB2 for z/OS subsystem subsystem_name was started in restricted access mode and the program was started with the term=y parameter.

Explanation: The term=y parameter causes the program to terminate when DB2 is unavailable. Because the DB2 for z/OS subsystem was started in restricted access mode, the program terminated.

User response: Take one of the following actions:
- Start the DB2 for z/OS subsystem in full access mode and then restart the program with term=y.
- Start the program with term=n. The program will start, and will wait for the subsystem to run in full access mode before the program begins to replicate data.

ASN0685W  program_name : program_identifier : The TCP/IP GetAddrInfo socket call failed for service location location and service name name. The errno is number and the reason is reason.

Explanation: The program invoked the GetAddrInfo socket call to determine the IP address that is associated with the specified host name and port or service.

This message can be returned for two reasons:
- An incorrect host name was specified in the EIF_CONN1 and EIF_CONN2 columns in the IBMQREP_APPLYPARMS table.
- The correct host name was specified in the IBMQREP_APPLYPARMS table, but TCP/IP was unable to resolve that host name to an IP address.

User response: Verify the following details:
- The EIF_CONN1 and EIF_CONN2 columns in the IBMQREP_APPLYPARMS table specify valid host names, IP addresses, service names, or ports.
- TCP/IP is able to resolve the host name that is specified in the IBMQREP_APPLYPARMS table to an IP address.

If changes were recently made to the name server or local host table, refresh the resolver.

ASN0686W  program_name : program_identifier : The TCP/IP create socket call failed for service location location and service name name. The errno is number and the reason is reason.

Explanation: The program invoked the create socket call to create an endpoint for communication. The call failed for the specified reason.

User response: Determine the meaning of the reason that was issued by z/OS UNIX System Services or z/OS Communications Server.

ASN0687W  program_name : program_identifier : The TCP/IP SetSockOpt socket call failed for service location location and service name name. The errno is number and the reason is reason.

Explanation: The program invoked the SetSockOpt socket call to set socket options. The call failed for the specified reason.

User response: Determine the meaning of the reason that was issued by z/OS UNIX System Services or z/OS Communications Server.

ASN0688W  program_name : program_identifier : The TCP/IP connect socket call failed for service location location, service name name. The errno is number and the reason is reason.

Explanation: The program invoked the connect socket call to establish a connection with the server socket. The call failed for the specified reason.

User response: Determine the meaning of the reason that was issued by z/OS UNIX System Services or z/OS Communications Server.

ASN0689W  program_name : program_identifier : The TCP/IP send socket call failed for service location location and service name name. The errno is number and the reason is reason.

Explanation: The program invoked the send socket call to send data on the socket. The call failed for the specified reason.
User response: Determine the meaning of the reason that was issued by z/OS UNIX System Services or z/OS Communications Server.

ASN0691E  program_name: program_identifier: Error
decoding log records for table
  table_name. Version: version_number

Explanation: The Q Capture or Capture program could not decode log records for this table. The table structure (schema) as recorded in the IBMQREP_TABVERSION and IBMQREP_COLVERSION control tables is not consistent with the format of the log records.

User response: Follow these steps:
1. Manually deactivate the registration or Q subscription if it is active to allow capture to progress past this point in the log.
2. Run the REORG TABLESPACE utility for the table space that contains this table.
3. Activate the registration or Q subscription.

ASN0771  pgmname: program_qualifier: Additional
information message_text, reason code(s):
  rc1, rc2, rc3.

Explanation: The Additional information shown in this message refers to an informational text message. The reason codes provide supplemental return code information related to this message text. If an informational code field is not applicable, it contains "*" (an asterisk).

User response: This message is for your information only, and no action is required.

ASN0888E  pgmname: program_qualifier: EEE error
condition message_text, error code(s): rc1,
  rc2, rc3.

Explanation: The EEE error condition shown in this message is the description of an EEE-specific error that occurred in the specified program with the specified qualifier (if displayed). The error codes provide supplemental information related to this message text. If an error code field is not applicable, it contains "*" (an asterisk).

User response: Use the information from the EEE error condition and from the specified error codes to determine the cause of the error. Contact IBM Software Support if you cannot resolve the error.

ASN0999E  pgmname: program_qualifier: Error
condition message_text, error code(s): rc1,
  rc2, rc3.

Explanation: The Error condition shown in this message is the description of an error that occurred in the specified program with the specified qualifier (if displayed). The error codes provide supplemental information related to this message text. If an error code field is not applicable, it contains "*" (an asterisk).

User response: Use the information from the Error condition and from the specified error codes to determine the cause of the error. Contact IBM Software Support if you cannot resolve the error.
Chapter 37. ASN1000 - ASN1499

ASN1001E APPLY apply_qualifier. The Apply program encountered an SQL error. The ERRCODE is error_code. The SQLSTATE is sqlstate. The SQLCODE is sqlcode. The SQLERRM is sqlerrm. The server name is server_name. The table name is table_name.

Explanation: An error occurred during the execution of an SQL statement.

User response: Refer to your database message reference for an explanation of the SQL error code.

ASN1002E APPLY apply_qualifier. The table_name could not be locked. ERRCODE is error_code, SQLSTATE is sqlstate, SQLCODE is sqlcode, SQLERRM is sqlerrm, SQLERRP is sqlerrp, server name is server_name, table name is table_name.

Explanation: The Apply program could not lock the table.

User response: Refer to your database message reference.

ASN1003E APPLY apply_qualifier. The Apply program could not connect to the server server.

Explanation: The Apply program attempted to connect to the database and received a failing return code. There are many possible reasons why the Apply program could not connect to the database. For example, the Apply program would receive a failing return code if the database was down or too many users were accessing it.

User response: Look up the SQLCODE (from the Apply diagnostic log) in the DB2 messages and codes manual to determine why the connection failed. See the IBM Information Management Software for z/OS Solutions Information Center or DB2 Information Center for information about storing replication user IDs and passwords.

Refer to your database message reference for an explanation of the SQL error code.

ASN1006E APPLY apply_qualifier. The product registration module has unexpected content.

Explanation: The content of the registration module (ASNAPR61) for replication is not as expected for this version of DB2. No further use of the product is possible until you provide the correct registration module.

User response: Verify that DB2 was installed without errors. If errors occurred, correct them and try again.

If DB2 was installed without error and you are correctly accessing the feature-registration module (ASNAPR61), contact IBM Software Support for assistance.

ASN1008E APPLY apply_qualifier. The subscription set with Apply qualifier qualifier and set name set_name is not defined correctly. ERRCODE is error_code.

Explanation: The subscription set is not defined correctly.

User response: Make sure that the subscription set has at least one member in the ASN.IBMSNAP_SUBS_MEMBR table or one BEFORE_OR_AFTER SQL statement in the ASN.IBMSNAP_SUBS_STMTS table.

ASN1009E APPLY apply_qualifier. There is no subscription set defined for Apply qualifier qualifier.

Explanation: There is no subscription set defined for Apply qualifier qualifier.

User response: Define at least one subscription set for Apply qualifier qualifier.

ASN1010E APPLY apply_qualifier. The Apply program could not insert row row into the audit trail table due to the following error: error_code.

Explanation: This is an SQL return code indicating that the audit trail table was not set up with the same structure as the IBMSNAP_APPLYTRAIL table.

User response: See the SQL reference information for your database and "Table structures for SQL Replication" in the IBM Information Management Software for z/OS Solutions Information Center or DB2 Information Center for details.

ASN1011E APPLY apply_qualifier. The copy request has incompatible source and target attributes. The SQL code is error_code.

Explanation: This is an SQL code indicating that the attributes of the target table must be compatible with the attributes of the source table.
User response: Refer to the SOURCE_STRUCTURE column in the register table for the compatibility of the source and target attributes.

**ASN1012E** APPLY apply_qualifier. The source table structure is not valid. The error code is error_code.

Explanation: This is an SQL return code indicating that the source table structure in the register table was not set up according to the SOURCE_STRUCTURE column in the register table.

User response: See "Table structures for SQL Replication" in the IBM Information Management Software for z/OS Solutions Information Center or DB2 Information Center for valid SOURCE_STRUCTURE column values used in the IBMSNAP_REGISTER table.

**ASN1013E** APPLY apply_qualifier. The target table structure is not valid. The error code is error_code.

Explanation: The target table structure in the subscription-targets-member table was not valid.

User response: See "Table structures for SQL Replication" in the IBM Information Management Software for z/OS Solutions Information Center or DB2 Information Center for valid target table structures.

**ASN1014E** APPLY apply_qualifier. The Apply program could not find a source for the copy request because it could not find the change-data (CD) table. The error code is error_code.

Explanation: The CD table was not defined in the IBMSNAP_REGISTER table because either the Apply program did not find the change data table name in the register table or the source table was not registered correctly.

User response: See "Table structures for SQL Replication" in the IBM Information Management Software for z/OS Solutions Information Center or DB2 Information Center and verify that the CD table is correctly defined in the IBMSNAP_REGISTER table.

**ASN1015I** APPLY apply_qualifier. Refresh copying has been disabled. The error code is error_code.

Explanation: While attempting to perform a full refresh, the Apply program encountered a DISABLE_REFRESH column in the register table which was set on.

User response: Either turn off the DISABLE_REFRESH column or bypass the Apply program and perform a manual refresh.

**ASN1015I** APPLY apply_qualifier. The Apply program is waiting for the Capture program at server server_name to advance the global SYNCHTIME. Verify that the Capture program is running.

Explanation: This message is for your information only.

User response: Verify that the Capture program is running.

**ASN1016I** APPLY apply_qualifier. The Apply program is processing subscription set set_name(set_number of total_sets).

Explanation: This message is for your information only.

User response: This message is for your information only, and no action is required.

**ASN1016I** APPLY apply_qualifier. The target table does not have any key columns. The error code is error_code.

Explanation: The Apply program cannot find key column names in one of the columns requiring a unique index or primary key.

User response: Redefine the subscription set and subscription-set members. See "Subscribing to sources for SQL Replication" in the IBM Information Management Software for z/OS Solutions Information Center or DB2 Information Center for details.

**ASN1017E** APPLY apply_qualifier. The Apply program could not find any target column names. The error code is error_code.

Explanation: The Apply program could not find any columns in the IBMSNAP_SUBS_COLS table.

User response: Redefine the subscription set and subscription-set members. See "Subscribing to sources for SQL Replication" in the IBM Information Management Software for z/OS Solutions Information Center or DB2 Information Center for details.

**ASN1018E** APPLY apply_qualifier. The Apply program could not reserve a storage block. The error code is error_code.

Explanation: The Apply program could not obtain the required (memory) storage.

User response: Contact IBM Software Support.
ASN1021E  APPLY : apply_qualifier : The Apply program cannot read the work file filename because of a system error with ERRNO error_code.

Explanation: The Apply program cannot read the work file because of a system error.

User response: See the explanation of system error for the C function to determine the cause of the error. On many operating systems, descriptions of ERRNO can be found in C header file named errno.h. Determine if the problem is caused by lack of space, and contact your system administrator to obtain what is needed.

ASN1022E  APPLY : apply_qualifier : The Apply program cannot write to the work file filename because of a system error with ERRNO error_code. The error code is error_code.

Explanation: Either the user ID not have the proper access authority for one or all of the files, or insufficient space remains after the Apply program writes to the target file.

User response: See the explanation of system error for the C function to determine the cause of the error. On many operating systems, descriptions of ERRNO can be found in C header file named errno.h. Determine whether the problem is caused by a lack of access authority or a lack of space, and contact your system administrator to obtain what is needed.

ASN1023E  APPLY : apply_qualifier : The Apply program cannot open the work file filename because of a system error with ERRNO error_code. The error code is error_code.

Explanation: The Apply program cannot open the work file because of a system error.

User response: See the explanation of system error for the C function to determine the cause of the error. On many operating systems, descriptions of ERRNO can be found in C header file named errno.h.

ASN1024E  APPLY : apply_qualifier : The Apply program cannot close the work file filename because of a system error with ERRNO error_number. The error code is error_code.

Explanation: The Apply program cannot close the work file because of a system error.

User response: See the explanation of system error for the C function to determine the cause of the error. On many operating systems, descriptions of ERRNO can be found in C header file named errno.h.

ASN1025I  APPLY : apply_qualifier : The Apply program completed processing for subscription set set_name(whos_on_first). The return code is return_code.

Explanation: This message is for your information only.

User response: This message is for your information only, and no action is required.

ASN1026I  APPLY : apply_qualifier : The Apply program encountered an error while trying to bind. SQLSTATE is sqlstate, SQLCODE is sqlcode.

Explanation: An error occurred during the execution of bind.

User response: Refer to your database message reference.

ASN1027E  APPLY : apply_qualifier : There are too many large object (LOB) columns specified. The error code is error_code.

Explanation: Too many large object (BLOB, CLOB, or DBCLOB) columns are specified for a subscription set member. The maximum number of columns allowed is 10.

User response: Remove the excess large object columns from the subscription set member.

ASN1028E  APPLY : apply_qualifier : The before-image column for a key column was not found. The error code is error_code.

Explanation: If you allow users to update columns in the source table that are part of the target key, (IS_KEY=Y in the IBMSNAP_SUBS_COLS table), you must specify that the Apply program use before-image values from the source table when it updates target key columns. Using before-image values enables Apply to search the target table for the old key value, delete the row, and insert a new row with the new key value.

Two steps are required:
• You must define the source registration to capture the before-image values of the columns that make up the target key.
• You must select the subscription-set member option for the Apply program to use before-image values for target key updates. Selecting this option adds before-image column information to the IBMSNAP_SUBS_COLS table.

User response: Follow these steps:
1. Deactivate the subscription set.
2. In the Replication Center, open the Member Properties dialog for the subscription-set member.
3. On the Target-Table Index page, click the Let the Apply program use before-image values to update target-key columns check box.
4. Activate the subscription set.

---

**ASN1029E**  APPLY apply_qualifier. The SQL statement of the subscription set named set_name with a who's on first value of who's on first did not execute successfully. The statement failed with SQLCODE sqlcode and SQLSTATE sqlstate. The apply program internal error code is error_code.

**Explanation:** The user-specified SQL statement did not execute successfully.

**User response:** Refer to the corresponding information in the IBMSNAP_APPLYTRAIL table and to the SQL manual of your database for detailed information.

---

**ASN1031E**  APPLY apply_qualifier. The SQL statement is empty. The error code is error_code.

**Explanation:** The SQL statement is an empty string.

**User response:** Specify the SQL statement to be executed.

---

**ASN1032E**  APPLY apply_qualifier. The Apply program log file could not be opened. The error code is error_code, and the return code is return_code.

**Explanation:** The Apply program could not open the log file.

**User response:** For more information on the return code, refer to the manual that describes troubleshooting for your particular operating system.

---

**ASN1033E**  APPLY apply_qualifier. The Apply program could not write to the Apply log file. The error code is error_code, and the return code is return_code.

**Explanation:** The Apply program could not write to the log file.

**User response:** For more information on the return code, refer to the manual that describes troubleshooting for your particular operating system.

---

**ASN1034I**  APPLY apply_qualifier. The Apply program initialization is successful.

**Explanation:** This message is issued at successful initialization of the Apply process.

**User response:** This message is for your information only, and no action is required.

---

**ASN1035E**  APPLY apply_qualifier. The Apply program could not access the subscription columns table. The error code is error_code. The SQLSTATE is sqlstate. The SQLCODE is sqlcode. The SQLERRM is sqlerrm. The SQLERRP is sqlerrp. The server name is server_name. The table name is table_name.

**Explanation:** An error occurred during the execution of an SQL statement.

**User response:** Refer to your database message reference for SQL.

---

**ASN1036E**  APPLY apply_qualifier. The column type col_type for expression expression is not valid. The error code is error_code.

**Explanation:** The value for the COL_TYPE column in the subscription columns table is not valid.

**User response:** Change the value to A, B, C, D, F, L, or R.

---

**ASN1038E**  APPLY apply_qualifier. No column names or expressions were specified in the IBMSNAP_SUBS_COLS table.

**Explanation:** Column names or expressions for a copy statement must be specified.

**User response:** See “Subscribing to sources for SQL Replication” in the DB2 Information Center for more information about requirements for subscription definitions.

---

**ASN1039E**  APPLY apply_qualifier. The Apply program plan, plan_name, could not be opened. The error code is error_code. The return code is return_code. The reason code is reason_code.

**Explanation:** The Apply program plan could not be opened.

**User response:** Refer to the Apply for z/OS Program Directory.

---

**ASN1040E**  APPLY apply_qualifier. The Apply program encountered an z/OS error. The error code is error_code, and the return code is return_code.

**Explanation:** Execution of a z/OS system operation failed.

**User response:** Refer to your z/OS system library information.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Explanation</th>
<th>User response</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASN1041I</td>
<td>APPLY apply_qualifier: The Apply program was started using subsystem name: subsystem.</td>
<td>This message informs you that the Apply program started using the specified subsystem name.</td>
<td>This message is for your information only, and no action is required.</td>
</tr>
<tr>
<td>ASN1042W</td>
<td>APPLY apply_qualifier: There are too many invocation parameters.</td>
<td>The number of parameters you specified when you invoked the Apply program exceeds the maximum allowed.</td>
<td>Refer to the Capture and Apply chapter for your operating system for information on the appropriate number of invocation parameters.</td>
</tr>
<tr>
<td>ASN1043E</td>
<td>APPLY apply_qualifier: There is already one Apply instance running with this Apply program qualifier qualifier. The error code is error_code, and the reason code is reason_code.</td>
<td>Verification attempt failed.</td>
<td>Make sure that only one instance of the Apply program with the specified Apply qualifier is running under this user ID on this subsystem or database.</td>
</tr>
<tr>
<td>ASN1044I</td>
<td>APPLY apply_qualifier: The Apply program will become inactive for number minutes and number seconds.</td>
<td>The Apply program becomes inactive in the following scenarios:</td>
<td>This message is for your information only, and no action is required.</td>
</tr>
<tr>
<td></td>
<td>• At the end of an active Apply cycle, the Apply program will sleep for an amount of time calculated according to the following formula:</td>
<td>[SLEEP_MINUTES] - [time spent in the cycle]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• When the Apply program does not find any subscription data to process, the Apply program will automatically sleep for 5 minutes.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>For example, if SLEEP_MINUTES is set to '1' and the Apply cycle lasts 10 seconds, the Apply program will be inactive for 50 seconds at the end of the cycle.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>You can configure whether this message is returned when the Apply program becomes inactive by specifying the inamsg parameter with the asnapply command.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>User response: This message is for your information only, and no action is required.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN1045I</td>
<td>APPLY apply_qualifier: The Apply version version_number program was started using database database_name.</td>
<td>This message informs you from which database the Apply program is running.</td>
<td>This message is for your information only. No action is required.</td>
</tr>
<tr>
<td></td>
<td>User response: This message is for your information only.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN1047I</td>
<td>APPLY apply_qualifier: There are too many columns specified. The error code is error_code.</td>
<td>There are too many columns specified for a member in the subscription.</td>
<td>The user must reduce the number of columns specified for the member in the subscription.</td>
</tr>
<tr>
<td></td>
<td>User response: The user must reduce the number of columns specified for the member in the subscription.</td>
<td></td>
<td>The maximum number of columns supported is determined by the total length of all the column names. More columns can be specified if the length of the column names is shorter.</td>
</tr>
<tr>
<td>ASN1048E</td>
<td>APPLY apply_qualifier: The execution of an Apply cycle failed. See the Apply trail table for full details: text</td>
<td>An Apply cycle failed. In the message, text identifies the target_server, target_owner, target_table, stmt_number, and cntl_server.</td>
<td>Check the APPERRM fields in the audit trail table to determine why the Apply cycle failed.</td>
</tr>
<tr>
<td></td>
<td>User response: Check the APPERRM fields in the audit trail table to determine why the Apply cycle failed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN1049E</td>
<td>APPLY apply_qualifier: The Apply program encountered a system error. The error code is error_code. The return code is return_code.</td>
<td>Execution of a system operation failed.</td>
<td>Refer to the system library information for your operating system.</td>
</tr>
<tr>
<td></td>
<td>User response: Refer to the system library information for your operating system.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN1050E</td>
<td>APPLY apply_qualifier: The Apply program encountered an operation that is not valid while updating the target table. The error code is error_code. The operation to be applied is operation.</td>
<td>The operation field of a row fetched from the source table is not valid.</td>
<td>Contact IBM Software Support.</td>
</tr>
<tr>
<td></td>
<td>User response: Contact IBM Software Support.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN1051W</td>
<td>APPLY apply_qualifier: The Apply program detected a gap in changed data between the source table table_owner.table_name and the target table. The error code is error_code.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Explanation: The Apply program detected that the Capture program skipped logged changes or deleted rows from CD tables before the Apply program could copy the data. For example, the Capture program was cold started or retention limit pruning occurred.

User response: Look for message ASN0100I to determine if the Capture program was started recently. If so, look for ASN0529I to determine if the value of the STARTMODE parameter was COLD. If so, the Apply program performs a full refresh of target tables unless full refresh has been disabled. If you find that the Capture program performed retention limit pruning of a CD table, the corresponding subscription may need a full refresh to synchronize the target table with the source.

ASN1052E APPLY apply_qualifier. The Apply program could not find the ASNLOAD program.

Explanation: The Apply program cannot find the ASNLOAD program in the current directory.

User response: Make sure that ASNLOAD is in the directory from which you are invoking the Apply program.

ASN1053E APPLY apply_qualifier. The execution of the ASNLOAD exit routine failed. The return code is return_code.

Explanation: The ASNLOAD exit routine detected an error and passed the error information back to the Apply program. The following values are valid return codes:

98
An unexpected error has occurred (The ASNLOAD exit routine has failed with an unexpected error. No processing will be performed.)

99
DB2 pwdfile keyword supplied - password file not found (The pwdfile parameter was passed, but no password file was found. This is an error, and no connections or other processing will be performed.)

100
The CONNECT statement in the exit routine specified a user ID and password that use values supplied in the encrypted Apply password file. The password file and a user ID and password combination for the DB2 server were found, but the connection failed.

101
DB2 connect without a user/using phrase failed - no pwdfile found (A connection without a user/using phrase was made because no password file was provided. The connection failed.)

102
DB2 connect without a user/using phrase failed - pwdfile found, no entry (A connection without a user/using phrase was made, because no server entry was found in the pwdfile for the DB2 server. The connection failed.)

103
DB2 connect with a user/using phrase failed - uid/pwd from asnlod.ini used (A connection with a user/using phrase was made using values supplied in the asnlod.ini file. This file and a userid/password combination for the DB2 server were found, but the connection failed.)

104
DB2 connect without a user/using phrase failed - no asnlod.ini found (A connection without a user/using phrase was made, because no asnlod.ini file was found. The connection failed.)

105
DB2 connect without a user/using phrase failed - no uid/pwd found for server (A connection without a user/using phrase was made. The asnlod.ini file was found, but no uid/pwd combination was provided. The connection failed.)

106
User specified LOADX_TYPE = 2, no user code provided (The value of LOADX_TYPE in the table ASN.IBMSNAP_SUBS_MEMBR was set by the user to the value of 2, indicating that the user was supplying custom code in the ASNLOAD exit routine. However this code was not found, and the ASNLOAD exit routine failed when the Apply program passed a LOADX_TYPE value of 2.)

107
DB2 import utility failed (The import utility failed to execute. The SQL code returned by the utility is passed as the reason code.)

108
DB2 export utility failed (The export utility failed to execute. The SQL code returned by the utility is passed as the reason code.)
DB2 load utility failed (The load utility failed to execute. The SQL code returned by the utility is passed as the reason code.)

110

DB2 load utility failed - invoked as crossload (The load utility failed to execute. The load utility was invoked with the load from cursor option. The SQL code returned by the utility is passed as the reason code.)

111

The LOADX_TYPE was set to an not valid value (The ASNLOAD exit routine was invoked with a LOADX_TYPE value that was set by the user. The LOADX_TYPE value is not valid for this environment, and the ASNLOAD exit routine failed.)

112

LOADX_TYPE 3 requires a nickname for select (The ASNLOAD exit routine failed. The ASNLOAD exit routine was invoked with a LOADX_TYPE value that was set by the user. The LOADX_TYPE value is not valid for this environment unless a nickname is created for the remote DB2 source table and stored in the ASN.IBMSNAP_SUBS_MEMBR table.)

113

LOADX_TYPE 4 is incompatible with target table (The ASNLOAD exit routine failed. The ASNLOAD exit routine was invoked with a LOADX_TYPE value that was set by the user. The LOADX_TYPE value is not valid for this environment, because the target table cannot be serviced by the DB2 for Linux, UNIX, and Windows load utility.)

114

LOADX_TYPE 5 is incompatible with target table (The ASNLOAD exit routine failed. The ASNLOAD exit routine was invoked with a LOADX_TYPE value that was set by the user. The LOADX_TYPE value is not valid for this environment, because the target table cannot be serviced by the DB2 import utility.)

115

The ASNDLCOPY exit routine has failed (The ASNLOAD exit routine called the ASNDLCOPY exit routine, because there were DATALINK columns for the subscription-set member. The ASNDLCOPY exit routine failed; therefore, the process that loads this subscription-set member also failed.)

User response: Check the return code and the corresponding explanation. Check for additional information in the ASNLOAD message file and in the message files generated by the DB2 utility, if applicable.
ASN1059E APPLY apply_qualifier. The Apply program detects syntax that is not valid for line line in the password file. The error code is error_code.

Explanation: The Apply program could not recognize a line in the password file.

User response: Correct the syntax error in the password file. See, "asnpwd: Creating and maintaining password files" in the IBM Information Management Software for z/OS Solutions Information Center or DB2 Information Center for details.

ASN1060E APPLY apply_qualifier. The dynamic allocation for the temporary work file failed. The error code is error_code.

Explanation: A system error was encountered during dynamic allocation.

User response: Contact IBM Software Support.

ASN1061E APPLY apply_qualifier. The specified keyword parameter is not valid. The error code is error_code.

Explanation: An invocation parameter that is not valid has been specified and has been ignored by the Apply program.

User response: Correct the invocation parameter. See "asnapply: Starting Apply" in the IBM Information Management Software for z/OS Solutions Information Center or DB2 Information Center for details.

ASN1062W APPLY apply_qualifier. The Apply program must use SELECT and INSERT statements to perform a full refresh of this subscription-set member. The following information pertains to this subscription-set member: the set name is set_name, the source owner is source_owner, the source table is source_table, the source view qualifier is source_view_qual, the target owner is target_owner, and the target table is target_table.

Explanation: The ASNLOAD exit routine cannot detect a user-specified LOADX_TYPE value, and no utilities are available to process this subscription-set member. Therefore, the ASNLOAD exit routine passes full refresh control back to the Apply program. The ASNLOAD exit routine does not currently support and is not able to process some target table types (such as the Sybase and MS SQL Server target tables).

User response: This message is for your information only, and no action is required. However, you can set the value of the LOADX_TYPE to 1 for these subscription-set members in order to avoid unnecessary processing by the ASNLOAD exit routine.

ASN1063E APPLY apply_qualifier. A subscription set cannot have more than 200 members. The error code is error_code.

Explanation: The number of subscriptions has exceeded the maximum allowed number of 200.

User response: Remove excess members from the subscription set.

ASN1064W APPLY apply_qualifier. The Apply program cannot perform a full refresh for the subscription set named set_name, because the Capture program for this source has not yet been cold started.

Explanation: The Apply program cannot attempt a full refresh for the subscription set, because the Capture program for this source has never been cold started and is not ready to process the CAPSTART signals are be inserted by the Apply program.

User response: Start the Capture program for this source.

ASN1065E APPLY apply_qualifier. The Apply program cannot process data for the subscription set set_name because one or more of the registrations for the source table are stopped.

Explanation: The Apply program cannot process data for this subscription set, because at least one of the registrations has STATE='S' in the IBMSNAP_REGISTER table.

The Capture program stops a registration if there is a problem with the registration that requires your intervention. Refer to the STATE_INFO column in the IBMSNAP_REGISTER table for error information. The integrity of the captured data for the registration might be compromised, and the Apply program must perform a full-refresh. This problem might occur if the registered source table was altered with data capture none.

User response: Fix the stopped registrations using the information from the error messages. Reactivate the registrations. When you reactivate the registrations, the Apply program performs a full refresh.

ASN1066E APPLY apply_qualifier. An internal Apply program error occurred. The error code is error_code.

Explanation: An internal Apply program error occurred.

User response: Contact IBM Software Support.
ASN1067E  APPLY apply_qualifer. The Apply program has detected update conflicts and compensated rejected transactions. See the unit-of-work table for details. The error code is error_code.

Explanation: More than one application updated the same row in a table from different locations. Some transactions have been rejected and compensated.

User response: See the SQL Replication table structures documentation in the IBM Information Management Software for z/OS Solutions Information Center or DB2 Information Center for details.

ASN1068E  APPLY apply_qualifer. The Apply program has deactivated the subscription due to a constraint violation. The error code is error_code.

Explanation: A constraint violation was detected when copying data from the source table to a target table. The Apply program has terminated and the subscription has been deactivated.

User response: Correct the constraint error and reactivate the subscription.

ASN1070E  APPLY apply_qualifer. The Apply program could not lock the target table. The ERRCODE is error_code. The SQLSTATE is sqlstate. The SQLCODE is sqlcode. The SQLERRM is sqlerrm. The SQLERRP is sqlerrp. The server name is server_name. The table name is table_name.

Explanation: The Apply program could not lock the target tables before it was to check update conflicts.

User response: Verify that all the target tables are available before restarting Apply.

ASN1071E  APPLY apply_qualifer. The Apply program could not reposition the work file. The error code is error_code.

Explanation: The Apply program has detected an error while reading the temporary work file.

User response: Contact IBM Software Support.

ASN1072E  APPLY apply_qualifer. The Apply program could not find the ASNDONE program.

Explanation: The Apply program could not find the user exit program, ASNDONE.

User response: Verify that the ASNDONE program is located in the correct directory.
An entry that is not valid has been found in the ASNDLUSER configuration file. 

An I/O error occurred when reading from the input file. 

An entry that is not valid has been found in the input file. 

Unable to open the input file. 

Unable to open the result file. 

An I/O error occurred when writing to the result file. 

An error occurred when initializing the control channel of the FTP protocol. 

An error occurred when sending data through the control channel. 

Unable to log on to the file server with the given user and password. 

The copy daemon has not yet started. 

An error occurred when initializing the data channel of the FTP protocol. 

Unable to retrieve the file from the source file server. 

Unable to store the file on the target file server. 

An error occurred when transferring files in the passive mode. 

Cannot find the path mapping for the given file reference. 

An error occurred when executing the FTP BINARY command. 

An error occurred when executing the FTP SIZE command. 

An error occurred when executing the FTP MODTIME command. 

An error occurred when executing the FTP SITE UMASK command. 

An error occurred when executing the FTP SITE TOUCH command. 

An error occurred when executing the FTP SITE CHMOD command. 

User response: Check the return code and its corresponding meaning. The return code is based on the sample ASNDLCOPY program that is shipped with the product. Additional information is provided in the log file.

ASN1076E The Apply program cannot read the format of the result file that was generated by the ASNDLCOPY program. 

Explanation: The result file that was generated by the ASNDLCOPY program is not in an expected format. 

User response: If you modified the ASNDLCOPY program, check that your changes are not causing the invalid format. If your changes are not the cause of the problem, check that your machine has enough space for the result file.

ASN1077E APPLY apply_qualifier. The Apply program encountered an DATALINK column value that is not valid while updating the target table. The error code is error_code. 

Explanation: The DATALINK column field of a row fetched from the source table is not valid. 

User response: Contact IBM Software Support. 

ASN1078E APPLY apply_qualifier. The ASNDLCOPY program was terminated by the signal signal_number. Additional information can be found in the filename file. 

Explanation: The ASNDLCOPY program terminated abnormally by the given signal. 

User response: Check the specified log file for the cause of the error. If you modified the ASNDLCOPY program and the signal is generated by the modified
code, fix the code and rerun. Otherwise, contact IBM Software Support.

**ASN1079E**  APPLY apply_qualifier. MEMBER_STATE is invalid for set set_name for WHOS_ON_FIRST whos_on_first, source owner source_owner, source table source_table, source view qualifier source_view_qual, target owner target_owner, and target table target_table.

**Explanation:** There was an invalid update made to the MEMBER_STATE column in the IBMSNAP_SUBS_MEMBR table. Valid values for this column are: 'N', 'L', 'S', or 'D'.

**User response:** Update the MEMBER_STATE column with a valid value and start the Apply program again. Refer to the IBMSNAP_SUBS_MEMBR table for details about the values in the MEMBER_STATE column.

**ASN1080E**  APPLY apply_qualifier : No columns are defined for target table table_owner.table_name in set set_name (whos_on_first whos_on_first_value). The error code is error_code.

**Explanation:** The Apply program's ASN.IBMSNAP_SUBS_COLS control table contains no information about the columns in the specified target table. Column information may have been manually removed during editing of the SQL script generated by the Replication Center or ASNCLP command-line program.

**User response:** Drop and recreate the subscription. If you know of a reason that the subscription cannot be dropped, you need to insert column data manually into the ASN.IBMSNAP_SUBS_COLS table.

**ASN1097I**  APPLY apply_qualifier. The Apply program stopped.

**Explanation:** The error reported previously caused the Apply program to stop.

**User response:** Fix the error reported before this message.

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**ASN1207E**  APPLY apply_qualifier. The subscription for subscription was not activated.

**Explanation:** The selected subscription is inactive.

**User response:** Either activate the subscription or select another one.

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**ASN1210E**  APPLY apply_qualifier. An Apply qualifier must be specified following the keyword -q.

**Explanation:** You must specify an Apply qualifier following the keyword -q.

**User response:** Specify an Apply qualifier following the keyword -q.

---

**ASN1212E**  APPLY apply_qualifier. A read-only set name set_name is found following the keyword keyword.

**Explanation:** A read-only set name was specified following the keyword U or D.

**User response:** Specify only replica for the keywords U and D.

---

**ASN1221I**  APPLY apply_qualifier. Set set_name has been successfully refreshed with number rows at time.

**Explanation:** This message is for your information only.

**User response:** This message is for your information only, and no action is required.

---

**ASN1242E**  APPLY apply_qualifier. An SQL error occurred. ERRCODE is error_code, SQLSTATE is sqlstate, SQLCODE is sqlcode, SQLERRM is sqlerrm, SQLERRP is sqlerrp, table name is table_name.

**Explanation:** This message is for your information only.

**User response:** This message is for your information only, and no action is required.

---

**ASN1243E**  APPLY apply_qualifier. There is no eligible subscription in the ASN.IBMSNAP_SUBS_SET table.

**Explanation:** Either a subscription set has not been selected or the apply qualifier is not valid.

**User response:** Verify the subscription names and apply qualifier.

---

**ASN1304E**  APPLY apply_qualifier. The ASNSAT program terminated due to a Capture error.

**Explanation:** The Capture program returned an error.

**User response:** Determine the error from the Capture log file.

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**ASN1305E**  APPLY apply_qualifier. The ASNSAT program terminated due to an Apply error.

**Explanation:** The Apply program returned an error.
User response: Determine the error from the Apply log file.

**ASN1310E** APPLY apply_qualifier. The ASNSAT program encountered a system error while attempting to invoke the Capture program. Return code is return_code.

Explanation: An operating system error occurred while calling ASNCAP.

User response: Make sure that the Capture program is in the execution path.

**ASN1311E** APPLY apply_qualifier. The ASNSAT program encountered a system error while attempting to invoke the Apply program. Return code is return_code.

Explanation: An operating system error occurred while calling ASNSAPPLY.

User response: Make sure that the Apply program is in the execution path.

**ASN1312E** APPLY apply_qualifier. The environment variable that specifies the default target server, DB2DBDFT, is not set.

Explanation: The target server name was not specified, and the ASNSAT program could not determine the default database name from the DB2DBDFT variable.

User response: Specify the target server name following the -t keyword.

**ASN1314E** APPLY apply_qualifier. An SQL error occurred while ASNSAT was getting the default Apply qualifier. SQLSTATE is sqlstate, SQLCODE is sqlcode.

Explanation: The user did not specify the Apply qualifier. The ASNSAT program encountered an error while retrieving the USER special register.

User response: Specify the Apply qualifier following the -q keyword.

**ASN1315E** APPLY apply_qualifier. Cannot connect to database server. SQLSTATE is sqlstate, SQLCODE is sqlcode.

Explanation: An error occurred while attempting to connect to the target database.

User response: Refer to your database message reference.

**ASN1316E** APPLY apply_qualifier. ASNSAT encountered an error while trying to bind. The SQLSTATE is sqlstate, SQLCODE is sqlcode.

Explanation: An error occurred while attempting to auto bind.

User response: Make sure that the bind file exists in the sqllib\bnd directory.

**ASN1317E** APPLY apply_qualifier. An SQL error occurred while ASNSAT was getting the CD_TABLE value from ASN.IBMSNAP_REGISTER table. SQLSTATE is sqlstate, SQLCODE is sqlcode.

Explanation: An SQL error occurred while selecting from the register table.

User response: Refer to your database message reference.

**ASN1318E** APPLY apply_qualifier. An SQL error occurred while ASNSAT attempted to get the DB2 node type. SQLSTATE is sqlstate, SQLCODE is sqlcode.

Explanation: An error occurred while retrieving the node type configuration parameter.

User response: Refer to your database message reference.

**ASN1319I** APPLY : apply_qualifier : The program is rebinding the package that is required for full refresh with the option CONCURRENTACCESSRESOLUTION WAIT FOR OUTCOME.

Explanation: To ensure that the full refresh of the target table successfully selects all data from the source server, the Apply program must bind the SQL packages with this option. The option forces the SELECT operation to wait until all in-progress transactions that modify the source table are completed before beginning to retrieve the rows.

User response: This message is for your information only. No action is required.

**ASN1320W** APPLY : apply_qualifier : The program was unable to bind the packages that are required for full refresh. Bind failed on package package_name from the file path_filename. The SQLCODE sqlcode was returned.

Explanation: The program encountered an error when it attempted to bind a required package for full refresh.

User response: Interpret the SQLCODE of the failed
bind call. If you need to ensure that no data is lost during a full refresh, fix the problem and then restart the Apply program. You can manually bind the required packages by connecting to the source database and running the following command:

db2 bind @qapplycs.lst

CONCURRENTACCESSRESOLUTION WAIT_FOR_OUTCOME

If you are only performing differential refresh, you can ignore this warning.

**ASN1321I** APPLY apply_qualifier: Number rows were committed to the target table table_owner.table_name during a full refresh operation.

**Explanation:** The Apply program committed the indicated number of rows to the target table during the most recent commit of the full refresh. You can control the number of rows in each commit by using the nickname_commit_ct parameter.

**User response:** This message is for your information only. No action is required.

**ASN1322W** APPLY: apply_qualifier: The Apply program parameter MONITOR_ENABLED is set to Y, but a control table that is required to use the monitoring functionality, ASN.IBMSNAP_APPLYMON, does not exist. No Apply status information will be saved.

**Explanation:** When MONITOR_ENABLED is set to Y, the Apply program inserts information about its status into the ASN.IBMSNAP_APPLYMON table. The table was not found and so no status information can be saved.

**User response:** Take one of the following actions:

- Create the ASN.IBMSNAP_APPLYMON table on the Apply control server. You can use the following SQL statements:

  ```sql
  CREATE TABLE ASN.IBMSNAP_APPLYMON
  (MONITOR_TIME TIMESTAMP NOT NULL,
   APPLY_QUAL CHAR(18) NOT NULL,
   WHOIS_ON_FIRST CHAR(1),
   STATE SMALLINT,
   CURRENT_SET_NAME CHAR(18),
   CURRENT_TABOWNER VARCHAR(128),
   CURRENT_TABNAME VARCHAR(128)
  );

  CREATE INDEX IXIBMSNAP_APPLYMON ON
  ASN.IBMSNAP_APPLYMON(MONITOR_TIME,
                         APPLY_QUAL,
                         WHOIS_ON_FIRST);
  ```

  Restart the Apply program with MONITOR_ENABLED=Y after the table is created.

- Continue without Apply status information. Apply issues the warning message once and keeps processing subscriptions if the table does not exist. You can change the value of the MONITOR_ENABLED column in the ASN.IBMSNAP_APPPARMS table to N and Apply will use this value the next time it is restarted.

**ASN1323E** APPLY apply_qualifier: The value of the ARCH_LEVEL column in the ASN.IBMSNAP_SUBS_SET table on the Apply control server is not at the expected level of 1001 for the subscription set. The subscription set was deactivated. Apply control server: control_alias. Subscription-set name: set_name.

**Explanation:** When you migrate to SQL Replication Version 10 and set Capture compatibility to 10xx on the source server, you must set the value of the ARCH_LEVEL column in the ASN.IBMSNAP_SUBS_SET table to 1001. The variable xx identifies the release within Version 10.

**User response:** Follow the steps in the SQL Replication Version 10 migration information to migrate the Apply control server, and then activate the subscription set.

**ASN1324E** APPLY apply_qualifier: The Apply program cannot work with the Capture program on source server source_alias because the Capture control tables have a value of value in the COMPATIBILITY column of the IBMNSAP_CAPPARMS table for the subscription set set_name. The subscription set was deactivated.

**Explanation:** The Capture server is at Version 10, which requires the Apply program and Apply control server to also be at Version 10 to support new restart information and 16-byte columns for log sequence numbers.

**User response:** Follow these steps:

- Upgrade the Apply program and Apply control server to Version 10 or above.
- Migrate the Apply control tables to Version 10.
- Reactivate the subscription set.
ASN1325E  APPLY apply_qualifier : The target CCD table table_owner.table_name in the subscription set set_name was not upgraded to include 16-byte columns to hold log sequence numbers (LSN). The Capture program is at Version 10 with a value of 1001 in the COMPATIBILITY column of the IBMSNAP_CAPPARMS table. The subscription set was deactivated.

Explanation: When the Capture program is at Version 10, target CCD tables require 16-byte LSN columns (IBMSNAP_COMMITSEQ, IBMSNAP_INTENTSEQ) to hold log sequence number details from the Capture program.

User response: Follow the steps in the SQL Replication Version 10 migration information to upgrade target CCD tables to 16-byte LSN columns and reactivate the subscription set.

ASN1326E  APPLY apply_qualifier : The Apply program does not support the source CCD table table_owner.table_name on source server source_alias for subscription set set_name because the source server uses 16-byte columns for log sequence numbers (LSN). The subscription set was deactivated.

Explanation: Because the Apply program is older than Version 10, it does not support 16-byte LSN columns. The source CCD table was upgraded to 16-byte LSN columns, and so the Apply program cannot work with this table.

User response: Upgrade the Apply program and Apply control server to Version 10 or above to support 16-byte LSN columns and reactivate the subscription set.

ASN1327E  APPLY apply_qualifier : For subscription set set_name, a value of 1001 is set for ARCH_LEVEL in the ASN.IBMSNAP_SUBS_SET table, but on source server source_alias either the COMPATIBILITY column does not exist in the IBMSNAP_CAPPARMS table or the value in the COMPATIBILITY column is 0801. The compatibility value must be updated to 1001. The subscription set was deactivated.

Explanation: When the ARCH_LEVEL value for a subscription set is 1001, the Capture compatibility value must be changed to 1001.

User response: Run the Version 10 Capture migration and compatibility script, and reactivate the subscription set.

ASN1328E  APPLY apply_qualifier : The subscription set set_name was deactivated because the parameter table table_name on source server source_alias is empty or contains more than one row.

Explanation: The program parameter table must have exactly one row.

User response: Follow these steps:
1. Make sure that the parameter table is in the right format and contains exactly one row. You can find the correct DDL for the table in the migration scripts in the sqllib/samples/repl/mig10 directory.
2. Reactivate the subscription set.
Chapter 38. ASN1500 - ASN1999

ASN1500I The replication action action_name started at timestamp with architecture level architecture_level. The Capture server is capture_serveralias and the Capture schema is capture_schema.

Explanation: Valid values for action name are Create Capture server control tables and Drop Capture server control tables.

User response: This message is for your information only, and no action is required.

ASN1501I The replication action action_name started at timestamp with architecture level architecture_level. The Capture server is capture_serveralias, the remote server is remote_servername, and the Capture schema is capture_schema.

Explanation: Valid values for action name are Create Capture server control tables and Drop Capture server control tables.

User response: This message is for your information only, and no action is required.

ASN1502I The replication action action_name started at timestamp with architecture level architecture_level. The Apply control server is apply_serveralias.

Explanation: Valid values for action name are Create Apply server control tables and Drop Apply server control tables.

User response: This message is for your information only, and no action is required.

ASN1503I The replication action action_name started at timestamp. The Capture server is capture_serveralias, the Capture schema is capture_schema, the source owner is source_owner, and the source table, view, or nickname is source_table.

Explanation: Valid values for action name are Create Registration, Drop Registration, Alter Registration, Add Registration, and Promote Registration.

User response: This message is for your information only, and no action is required.

ASN1504I The replication action action_name started at timestamp. The Capture server is capture_serveralias, the remote server is remote_server, the Capture schema is capture_schema, the source owner is source_owner, and the source table, view, or nickname is source_table.

Explanation: Valid values for action name are Create Registration and Drop Registration.

User response: This message is for your information only, and no action is required.

ASN1505I The replication action action_name started. The subscription set information follows: the Apply control server is control_server, the Apply qualifier is apply_qualifier, the set name is set_name, the target server is target_server for remote server remote_servername, the Capture server is capture_server for remote server remote_servername, and the Capture schema is capture_schema.

Explanation: Valid values for action name are Create Subscription Set, Drop Subscription Set, Alter Subscription Set, and Promote Subscription Set.

User response: This message is for your information only, and no action is required.

ASN1506I The replication action action_name started at timestamp. The subscription set information follows: the Apply control server is control_server, the Apply qualifier is apply_qualifier, the set name is set_name, the target server is target_server for remote server remote_servername, the Capture server is capture_server for remote server remote_servername, and the Capture schema is capture_schema.

Explanation: Valid values for action name are Create Subscription Set, Drop Subscription Set, Alter Subscription Set, and Promote Subscription Set.

User response: This message is for your information only, and no action is required.
The replication action `action_name` started at `timestamp`. The subscription set information follows: the Apply control server is `control_server`, the Apply qualifier is `apply_qualifier`, the set name is `set_name`, the target server is `target_server` for remote server `remote_server`, the Capture server is `capture_server`, and the Capture schema is `capture_schema`.

**Explanation:** Valid values for `action_name` are Create Subscription Set, Drop Subscription Set, Alter Subscription Set, and Promote Subscription Set.

**User response:** This message is for your information only, and no action is required.

The replication action `action_name` started at `timestamp`. The subscription set information follows: the Apply control server is `control_server`, the Apply qualifier is `apply_qualifier`, the set name is `set_name`, the target server is `target_server`, the Capture server is `capture_server`, and the Capture schema is `capture_schema`.

**Explanation:** Valid values for `action_name` are Create Subscription Set, Drop Subscription Set, Alter Subscription Set, and Promote Subscription Set.

**User response:** This message is for your information only, and no action is required.

The replication action `action_name` ended successfully at `timestamp`.

**Explanation:** Valid values for `action_name` are Create Capture server control tables, Drop Capture server control tables, Create Apply control server control tables, and Drop Apply control server control tables.

**User response:** This message is for your information only, and no action is required.

The replication action `action_name` ended successfully for Apply qualifier `apply_qual`, set name `set_name`. The replication action ended at `timestamp`.

**Explanation:** Valid values for `action_name` are Create Subscription Set, Drop Subscription Set, Alter Subscription Set, Add Statements to Subscription Set, Drop Statements from Subscription Set, and Promote Subscription Set.

**User response:** This message is for your information only, and no action is required.

The replication action `action_name` ended successfully for Apply qualifier `apply_qual`, set name `set_name`, `WHOS_ON_FIRST` `whos_on_first`, source owner `source_owner`, source table `source_table`, source view qualifier `source_view_qualifier`, target owner `target_owner`, and target table `target_table`.

**Explanation:** The following values are valid for `action_name`:
- Add Subscription Member
- Add Subscription Member Column
- Drop Subscription Member

**User response:** This message is for your information only, and no action is required.

The replication action `action_name` ended at `timestamp` with `number successes`, `number errors`, and `number warnings`.

**Explanation:** At least one of the tasks in the ASNCLP script failed. The number of errors depends partly on the following options that determine whether the ASNCLP continues to process commands after errors:

**SET RUN SCRIPT NOW**
- STOP ON SQL ERROR ON (default)
- STOP ON SQL ERROR OFF

**SET RUN SCRIPT LATER**
- GENERATE SQL FOR EXISTING NO (default)
- GENERATE SQL FOR EXISTING YES

**User response:** The ASNCLP log file has messages for any tasks that fail. The messages are prefaced by an ASN error code. For more details about the task that prompted an error, look for an informational message for that task, for example Create Q Subscription - ASN2003I. To learn more about setting error options for script processing, see "How the ASNCLP handles errors while generating and running scripts" in the Information Management Software for z/OS Solutions Information Center or DB2 Information Center.
The replication action *action_name* ended in error. The value for the input parameter *input_parameter* is missing.

**Explanation:** The input parameter is mandatory for this action and is missing.

**User response:** Provide the mandatory parameter and rerun the Replication action.

The replication action *action_name* ended in error. The value *value* for the input parameter *input_parameter* is incorrect. The reason code is *reason_code*.

**Explanation:** The value provided for the input parameter is not a valid value. The following values are valid for the reason code:

```
0
  Blocking minutes value should be between 0-999.

1
  Commit Count value should be between 0-999.

2
  Server Type value should be Capture Server.

3
  Table type value should be one of the following types:
  • USERTABLE
  • CCD TABLE
  • POINT IN TIME
  • BASE AGGREGATE
  • CHANGE AGGREGATE
  • REPLICA
  • USERCOPY

4
  Remote Server Name value should be NULL.

5
  Server Type value should be one of the following types:
  • Capture Server
  • Control Server
  • Capture and Control Server
  • Capture, Control and Target Server

6
  Internal CCD tables must be noncomplete.

7
  The Apply qualifier exceeds the maximum length of 18 characters.
```

The set name exceeds the maximum length of 18 characters.

Event names must be 128 bytes or fewer in length.

The source Capture schema name exceeds the maximum length of 128 bytes.

The target Capture schema name exceeds the maximum length of 128 bytes.

The BEFORE_OR_AFTER statement value must be 'A', 'B', or 'S'.

The EI_OR_CALL value must be 'C' or 'E'.

SQLSTATES must be 50 digits or fewer in length.

SQLSTATES must be numeric

The CONFLICT_LEVEL must be zero (0) or NONE.

The CHGONLY value must be 'N'.

The external CCD table is noncondensed and contains LOB columns.

The CONFLICT_LEVEL must be between 0 and 2.

The CHGONLY value must be 'Y' or 'N'.

The RECAPTURE value must be 'Y' or 'N'.

The DISABLE_REFRESH value must be 0 or 1.

The CHG_UPD_TO_DEL_INS value must be 'Y' or 'N'.
The STOP_ON_ERROR value must be 'Y' or 'N'.

The BEFORE_IMG_PREFIX value must be only one character.

The corresponding table space does not have the New Tablespace flag set to true in any of the previous scenarios.

The table name is not a valid control table. See the SQL Replication table structures documentation in the IBM Information Management Software for z/OS Solutions Information Center or DB2 Information Center for a valid list of control tables.

A federated server was found but a corresponding federated schema name was not provided. When calling the API for a federated system, ensure that the federated schema name is provided.

The specified remote source database name on the OS/400 system does not match the remote source database name of the registration.

User response: Provide a valid value for the input parameter, and rerun the replication action.

The replication action action_name ended in error. The value value1 for input parameter input_parameter1 is incompatible with the value value2 for input parameter input_parameter2.

Explanation: The value provided for the replication parameter conflicts with another parameter specification.

User response: Provide valid values for the input parameters and rerun the replication action. See the replication system commands documentation in the IBM Information Management Software for z/OS Solutions Information Center or DB2 Information Center for details.

The value value1 for input parameter input_parameter1 is incompatible with the value value2 for the existing subscription set subscription_set, Apply qualifier apply_qual, and WHOS_ON_FIRST whos_on_first.

Explanation: The value provided for the replication parameter conflicts with one of the values for the existing subscription set.

User response: Provide a valid value for the input parameter or change the subscription set definition, and rerun the replication action. See the replication system commands documentation in the IBM Information Management Software for z/OS Solutions Information Center or DB2 Information Center for details.

The replication action ended in error. An SQL error was encountered. SQL message: sql_message.

Explanation: An error occurred during the execution of an SQL statement.

User response: Refer to your database message reference for SQL.

Connection to the server server_alias cannot be established. An SQL error was encountered. SQL message: sql_message.

Explanation: The connection to the specified server could not be established.

User response: Refer to your database message reference for SQL. Verify that the userid and password information is correct.


Explanation: The specified action cannot be performed because of a run time error.

User response: Contact IBM Software Support.

The replication action action_name ended in error. The replication architecture level arch_level does not support server server_alias.

Explanation: The specified replication architecture level is not supported on the specified server operating system, version, or release.

User response: See "Table structures for SQL Replication" in the IBM Information Management Software for z/OS Solutions Information Center or DB2 Information Center to check the required value for the ARCH_LEVEL column in the register table.

The replication action action_name ended in error. The Capture server architecture level arch_level for Capture schema capture_schema does not support this replication action.
**Explanation**: The replication architecture level found in the IBMSNAP_REGISTER table for this Capture schema does not allow the specified replication action.

**User response**: Migrate the Capture control tables to Version 8 architecture level before retrying this action.

---

**ASN1565E**  The replication action `action_name` ended in error. The Apply control server architecture level `arch_level` does not support this replication action.

**Explanation**: The replication architecture level found in the ASN.IBMSNAP_SUBS_SET table does not allow the specified replication action.

**User response**: Migrate the Apply control tables to Version 8 architecture level before retrying the action.

---

**ASN1567W**  The table space container information for table space `tablespace_name` cannot be read, because the DB2 stored procedure `procedure_name` in the library `library_name` cannot be found.

**Explanation**: The DB2 stored procedure `READTSCINFOS` cannot be found on the Capture server or target server. The stored procedure is required to retrieve DB2 table space container information for that server.

**User response**: Determine whether the stored procedure exists on the server: check if the file `db2rtsc` exists in the function directory of the sqllib directory. The file `db2rtsc` might not exist if the server is a pre-V8 server. If the stored procedure does not exist, then edit the table space container definition that is provided in the output script.

---

**ASN1568E**  The name length `length` for the database object, `objectname` exceeds the allowed limit of `allowed_limit`.

**Explanation**: The database object type provided in the second parameter allows a length that is smaller than the length of the actual object provided in the third parameter. As in the Properties file, the following values are valid for the object: Table, Index, Tablespace, Table owner, Nickname.

**User response**: Refer to the SQL reference for the appropriate database, and provide the correct name length.

---

**ASN1569E**  The name of the database object to be created is identical to the existing name `objectowner.objectname of type object_type`.

**Explanation**: The database object cannot be created because there is already a database object of the same type with the same name. As in the properties file, the following values are valid for the object: Table, Index, Nickname, Tablespace, Table owner.

**User response**: Provide a name for that object that does not already exist in DB2, and reissue the replication task.

---

**ASN1570E**  The database object `object, objectowner.objectname` does not exist.

**Explanation**: The database object does not exist in the DB2 catalog. This object must exist in order to be defined as a source or target of a subscription set, as per the replication action. This object might have been defined as part of an existing registration or subscription-set definition but is not found in the DB2 catalog. As in the properties file, the following values are valid for the object: Table, Index, Nickname, Tablespace, Table owner, View.

**User response**: Provide a name that already exists in DB2, and reissue the replication task. If the object was defined as part of an existing registration or subscription-set definition, verify that the object exists in the DB2 catalog.

---

**ASN1571E**  The database table `tableowner.tablename` cannot be created: the database definition is not valid for data type `datatype` and column `column_name`. The reason code is `reason_code`.

**Explanation**: The following values are valid for the reason code:

0   The datatype is not supported on this platform.
1   The length of the column is not supported on this platform.
2   The precision or scale of the column is not supported on this platform.

**User response**: Refer to the SQL reference for the appropriate database.

---

**ASN1572E**  The row size `row_size` for the database object `objectowner.objectname of type object_type` exceeds its database buffer pool row size `bufferpool_rowsize`. The database object cannot be created.

**Explanation**: The row size of a table cannot exceed the table space page size for that table. The table space page size is derived from the buffer pool page size to which it belongs. No script is generated.

**User response**: You might have to create the table in a different table space. Refer to your DB2 platform documentation.
The number of columns for the database object
objectowner.objectname of type object_type
exceeds the database limit db2_limit. The
database object cannot be created.

Explanation: The number of columns that a database
object (table or index) can contain depends on the DB2
platform but cannot exceed a predefined number. No
script is generated. The following values are valid for
object type: table, index.

User response: Redesign the DB2 object.

The DB2 page size page_size for table
space tablespace_name is not valid.
Reason code reason_code.

Explanation: The page size must be valid for the table
space to be created successfully. The following values
are valid for reason code:

  0  Page size is not equal to the page size of the
given buffer pool.

  1  Page size is not equal to one of the following:
     4K, 8K, 16K, 32K.

User response: Refer to the DB2 SQL Reference for
appropriate page size ranges or values.

The DB2 table tableowner-tablename will
be created in the DB2 default table
space.

Explanation: No table space name was specified
indicating where to create the specified table, so the
table will be created in the DB2 default table space.
This might be a problem if the default table space
specifications are not appropriate for the specified table.

User response: Refer to the SQL Reference for the DB2
defaults. If you require the table to be in its own
table space, then reissue the replication task with the
appropriate specifications. No action is required if the
default is appropriate for the table.

The DB2 index index_name will be
created in the DB2 default index space
or table space.

Explanation: A table space (for workstation operating
systems) or an index space (for z/OS operating
systems) was not provided into which the specified
index might be created. Therefore, the index is created
using the DB2 defaults. This might be a problem if the
default specifications are not appropriate for the
specified index.

User response: Refer to the SQL Reference for the DB2
defaults. If you require the index to be in its own
storage group, then reissue the replication task with the
appropriate specifications. No action is required if the
default is appropriate for the index.

The DB2 table space tablespace will be
created in the DB2 default database.

Explanation: For z/OS operating systems only, a
storage group was not specified into which the specified
table space might be created. Therefore, the table
space is created using the DB2 defaults. This might be a
problem if the default specifications are not appropriate
for the specified table space.

User response: Refer to the SQL Reference for the DB2
defaults. If you require the table space to be in its own
database, then reissue the replication task with the
appropriate specifications. No action is required if the
default is appropriate for the table space.

The DB2 table space tablespace will be
created in the DB2 default storage

Explanation: For workstation and z/OS operating
systems only, a storage group was not specified into
which the specified table space might be created.
Therefore, the table space is created using the DB2
defaults. This might be a problem if the default
specifications are not appropriate for the specified table
space.

User response: Refer to the SQL Reference for the DB2
defaults. If you require the table space to be in its own
storage group, then reissue the replication task with the
appropriate specifications. No action is required if the
default is appropriate for the table space.

The DB2 index index_name will be
created in the DB2 default storage

Explanation: For workstation and z/OS operating
systems only, a storage group was not specified into
which the specified index might be created. Therefore, DB2
created the index using the default specification. This
might be a problem if the default specifications are not
appropriate for the specified index.

User response: Refer to the SQL Reference for the DB2
defaults. If you require the index to be in its own
storage group, then reissue the replication task with the
appropriate specifications. No action is required if the
default is appropriate for the index.

The DB2 table space tablespace will be
created in the DB2 default buffer pool.

Explanation: For workstation and z/OS operating
systems only, a buffer pool was not provided into
which the specified table space might be created.
Therefore, the table space is created using the DB2
defaults. This might be a problem if the default
Specifications are not appropriate for the specified table space.

**User response:** Refer to the SQL Reference for the DB2 defaults. If you require the table space to be in its own buffer pool, then reissue the replication task with the appropriate specifications. No action is required if the default is appropriate for the table space.

---

**ASN1581I** The DB2 index `index_name` will be created in the DB2 default buffer pool.

**Explanation:** For workstation and z/OS operating systems only, a buffer pool was not provided into which the specified index might be created. Therefore, the index is created using the DB2 defaults. This might be a problem if the default specifications are not appropriate for the specified index.

**User response:** Refer to the SQL Reference for the DB2 defaults. If you require the index to be in its own buffer pool, then reissue the replication task with the appropriate specifications. No action is required if the default is appropriate for the index.

---

**ASN1582W** The table space `tablespace` will be created in buffer pool `buffer_pool` but the buffer pool does not exist or is not active.

**Explanation:**
- For applications on a DB2 for z/OS database, the buffer pool is not active into which the table space might be created.
- For applications on a DB2 for Linux, UNIX, and Windows database, the buffer pool does not exist into which the specified table space might be created.

**User response:**
- For a DB2 for z/OS database, make sure the buffer pool is active at the time of running the script.
- For a DB2 for Linux, UNIX, and Windows database, make sure that the buffer pool exists at the time of running the script.

---

**ASN1583E** The PageSize `page_size` for Table space `tablespace` does not match the default buffer pool PageSize.

**Explanation:** The given PageSize does not match the PageSize of the default buffer pool. The table space cannot be created.

**User response:** Change the PageSize or choose another buffer pool.

---

**ASN1584E** The replication action `action_name` ended in error. The Capture server Replication architecture level `arch_level` for Capture schema `capture_schema` is not a valid architecture level.

**Explanation:** The Replication architecture level found in the captureschema.IBMSNAP_REGISTER does not allow the specified replication action.

**User response:** Drop the control tables on the Capture control server manually because the architecture level is not supported. Create the control tables with a valid architecture level.

---

**ASN1585E** The replication action `action_name` ended in error. The Apply control server Replication architecture level `arch_level` is not a valid architecture level.

**Explanation:** The Replication architecture level found in the ASN.IBMSNAP_SUBS_SET does not allow the specified replication action.

**User response:** Drop the control table on the Apply control server manually because the architecture level is not supported. Create the control tables with a valid architecture level.

---

**ASN1586W** The DB2 table `tableowner.tablename` will be created in the DB2 default database.

**Explanation:** For z/OS operating systems only, a database was not provided into which the specified table might be created. Therefore, the table is created using the DB2 defaults. This might be a problem if the default specifications are not appropriate for the specified table.

**User response:** Refer to the SQL Reference for the DB2 defaults. If you require the table space to be in its own database, then reissue the replication task with the appropriate specifications. No action is required if the default is appropriate for the table.

---

**ASN1587E** The value `value` for the parameter `parameter_name` of the database object `object_name`, which has a type of `type`, is not valid.

**Explanation:** The provided value is not valid or conflicts with another parameter value.

**User response:** Refer to the SQL reference for valid values.

---

**ASN1588E** The value `encoding_scheme` that was provided for the parameter `encoding_scheme` is not valid for the DB2 server `server_name`.

**Explanation:** The provided value for the encoding scheme is not valid for the DB2 version of the server. No script is generated.

**User response:** Refer to the SQL reference for a valid value of the encoding scheme for the DB2 version.
ASN1589W  The calculation of the size of the table space container tspace resulted in an incorrect container size. Therefore the container size has been changed to size megabytes.

Explanation: The calculation of the table space container size has resulted in a value that is too low to be used in a valid table space container definition. To ensure that the definition will be accepted by DB2, a replication-specific minimum container size has been provided for the table space container definition.

User response: For the calculation based on a percentage of the current source table size, check whether the source table contains data and if the statistics of the source table are up to date (using the RUNSTATS utility). For the calculation based on a number of rows, check whether the number of rows is realistic.

ASN1590E  The DB2 table space table_sp_name is partitioned and in the DB2 object_type group. It should not be partitioned and it should be in the object_type IBMCATGROUP.

Explanation: The provided table space is a partitioned table space. Creation of the replication control tables in a partitioned table space is not supported. No script is generated.

User response: Specify a table space that is not partitioned.

ASN1600E  The remote server remote_server_name cannot be found.

Explanation: The specified remote server name cannot be found in the federated catalog table SYSIBM.SYSSERVERS, for the SERVERNAME value that was provided. The non-DB2 relational server cannot be accessed.

User response: Verify the input provided for the remote server name and try the action again.

ASN1601E  The REMOTE AUTHID information for the remote server remote_servername cannot be found.

Explanation: The remote authentication information cannot be found in the federated catalog table SYSIBM.SYSSERVERS, for the SERVERNAME value provided. The non-DB2 relational server cannot be accessed.

User response: Verify the input provided for the remote server name and try the action again.

ASN1602E  The server server_alias does not support access to federated servers.

Explanation: The federated replication functions are only supported on DB2 for Linux, UNIX, and Windows Version 8 and higher.

User response: Make sure that the specified database server is at the correct level or do not issue the replication task against a server that does not support it.

ASN1603E  The Apply control server cannot reside on a non-DB2 relational server.

Explanation: Non-DB2 relational servers can be Capture control servers or target servers, but they cannot be Apply control servers.

User response: Specify a DB2 server as the Apply control server.

ASN1604E  The remote table remoteowner.tablename exists in the non-DB2 relational server, but the provided nickname nicknameowner.nickname cannot be found in the federated server.

Explanation: The specified remote table exists in the remote database but the corresponding nickname is not found in the federated database.

User response:
1. Refer to "Configuring data sources" in the DB2 Information Center for details on how to create a nickname.
2. Create the nickname in the federated database.
3. Issue the replication task again.

ASN1605E  The nickname nicknameowner.nickname exists in the federated server but the remote table remoteowner.remotetable cannot be found in the non-DB2 relational server.

Explanation: The nickname for the specified remote table exists but the corresponding remote table does not exist in the remote database.

User response:
1. Drop the nickname.
2. Depending on the table type, perform the following actions:
   - If the table is a user table, create the remote table in the remote server.
   - If the table is a replication control table on the Capture control server, perform the following actions:
     a. Copy the data from the existing control tables on the Capture control server.
b. Drop the control tables on the Capture control server.

c. Create the control tables on the Capture control server.

3. Create the nickname in the federated server.

4. Issue the replication task again.

ASN1606W The nickname nickname_owner.nickname_name exists in the Federated server but the remote table table_owner.table_name cannot be found in the non-IBM server.

Explanation: The nickname for the specified remote table exists but the corresponding remote table does not exist in the remote database. Although this is an orphan nickname, this inconsistent state is still tolerated when dropping Replication definitions. A script is generated.

User response: The source nickname is not dropped when dropping the replication definitions. To ensure a consistent catalog, drop the nickname.

ASN1607W It is strongly recommended to alter the nickname nickname_owner.nickname_name that is defined for the replication subscription target to alter the local data type of column column_name from existing_local_datatype to recommended_local_datatype and ensure the proper source-to-target mapping for column data types.

Explanation: A mismatch was found between a source column data type and its corresponding nickname target column data type. The mismatch does not violate DB2 compatibility rules, but it might cause a problem to native non-IBM end-user applications. The problem does not occur during replication of the column data. The problem does occur if end-user applications retrieve the data. For example, if the nickname data type is created using the default mappings from the non-DB2 relational data type to the DB2 data type, the column will hold the broadest range of data type values, which might clash with the end-user application requirement of a more restrictive data type. A script is generated.

User response: Check the target to ensure that the nickname data type you need at the target is indeed the source column data type. If it is, then issue an ALTER NICKNAME statement to change the local data type of the nickname column. When you alter the nickname local data type to be the same as the source column data type, you enforce that the end-user application on the non-DB2 relational server sees the same data type as the source column data type.

ASN1608I The nickname sourceNickname for the source and the nickname ccd_nickname for the consistent-change data (CCD) table have a column data type that is altered. The local data type column local_datatype is set to changed_datatype because the remote data type is remote_datatype. Reason code reason_code.

Explanation: When creating the nickname for a CCD table, the nickname is altered based on the data type of the CCD table that is created in the non-DB2 relational server to ensure the proper data type setting. A script is generated that updates the definitions that were provided in the replication administration tool.

User response: No action is required if the replication updates are acceptable.

ASN1609E The nickname nicknameowner.nickname exists in the Federated server but the remote table remoteowner.remotetable does not contain all the necessary columns.

Explanation: The target table nickname exists, and contains only a subset of the columns requested in the subscription.

User response: Use another Nickname as the target table or change the subscription to match the columns in the existing nickname.

ASN1620E Both Capture control tables and Apply control tables already exist. Capture control tables exist with architecture level capture_arch_level and Capture schema capture_schema. Apply control tables exist with architecture level apply_arch_level.

Explanation: The IBMSNAP_REGISTER table for this Capture schema and the ASN.IBMSNAP_SUBS_SET table already exist at the given server.

User response:
• If the architecture level of the existing IBMSNAP_REGISTER table for this Capture schema is 0201:
  – If the IBMSNAP_REGISTER table is already populated with valid replication definitions, migrate the Capture control tables to the latest version supported by replication.
  – If the IBMSNAP_REGISTER table is empty, drop the older version of the Capture control tables and reissue the replication task again.
• If the architecture level of the existing Capture control tables is Version 8 or later and it is the architecture level you intend, consider creating Capture control tables with a different Capture schema name.
If the architecture level of the existing 
ASN.IBMSNAP_SUBS_SET table is 0201:
- If the ASN.IBMSNAP_SUBS_SET table is already 
populated with valid replication definitions, 
migrate the Apply control tables to the latest 
version supported by replication
- If the ASN.IBMSNAP_SUBS_SET control table is 
empty, drop the older version of the Apply control 
tables and reissue the replication task again.
- If the architecture level of the existing Apply control 
tables is Version 8 or later and it is the architecture 
level you intend, consider creating Apply control 
tables on a different server.

At least one row was found in the 
control table table_owner-table_name. 
Dropping this control table will drop all 
replication definitions stored in the table.

Explanation: The control tables of the replication 
schema selected for the drop request are not empty. 
Replication control information will be deleted if the generated scripts are executed.

User response: Run the generated scripts only if:
- You understand the impact to existing dependent 
subscription sets of dropping the control tables from the Capture control server.
- You understand the impact to existing dependent 
subscription sets (for multi-tier scenarios) of dropping control tables from the Apply control server.
- You do not want replication to run the Capture or 
the Apply processes for these definitions anymore.

If the architecture level is 0201, migrate the Capture or Apply control tables to the latest architecture level before dropping the control tables.

The replication action action_name ended 
in error. The required control table 
controlowner.controltable could not be 
found.

Explanation: Replication definitions are stored in Replication control tables. These tables must exist before a registration or subscription definition can be created. The existence of the IBMSNAP_REGISTER table is used to check if the control tables for the Capture control server already exist for a particular Capture schema. The existence of the IBMSNAP_SUBS_SET table is used to check if the control tables on the Apply control server already exist. The existence of IBMSNAP_SUBS_MEMBR is checked at the time of checking for the existence of a subscription member.

User response: If the control table 
IBMSNAP_SUBS_MEMBR table does not exist, then your environment is in an inconsistent state. You must drop all the control tables from the Apply control server and then create them before attempting the action.

Alternatively, if the control tables IBMSNAP_REGISTER 
or IBMSNAP_SUBS_SET do not exist, create them 
before adding registration or subscription definitions on 
a control server. Otherwise, you can do the following:
1. If you are doing a registration-related action, check 
if the appropriate Capture schema was provided; or 
if the appropriate Capture control server was 
provided as input.
2. If you are doing a subscription-related action, check 
if the appropriate Apply control server was 
provided as input.
3. If you are creating a subscription set that contains 
target tables that need to be auto-registered at the 
target server (CCD or replica), then check if the 
appropriate control tables for the Capture control 
server exist at the subscription target server.

The Replication control table, 
controlowner.controltable could not be 
found and is not dropped.

Explanation: The Drop Capture control tables or Drop 
Apply control server control tables action was issued and 
the control table was missing. The script will not 
generate the appropriate DROP statement for that 
control table.

User response: This message is for your information 
only, and no action is required.

The server server_alias is not a known 
Replication Capture server for 
capture_schema.

Explanation: The captureschema.IBMSNAP_REGISTER table could not be 
found. A server is defined as a Replication Capture 
server when the appropriate Capture server control 
tables (including the IBMSNAP_REGISTER table) exist 
on the server.

User response: Create the appropriate Capture server 
control tables, if needed.

The server server_alias is not a known 
Replication Apply control server.

Explanation: The ASN.IBMSNAP_SUBS_SET table 
could not be found. A server is defined as a Replication 
Apply control server when the appropriate Apply 
control server control tables (including the 
IBMSNAP_SUBS_SET table) exist on the server.

User response: Create the appropriate control tables 
on the Apply control server, if needed.
Capture server control tables already exist for architecture level `arch_level` with the same Capture schema.

**Explanation:** The table `captureschema.IBMSNAP_REGISTER` already exists at the given server.

**User response:**
- If the architecture level of the existing `captureschema.IBMSNAP_REGISTER` table is 0801 or 0805, consider the following options:
  - Running the command is not necessary because the tables already exist with the same Capture schema.
  - Run the command under a different Capture schema.
- If the architecture level of the existing `captureschema.IBMSNAP_REGISTER` control table is 0201:
  - Migrate the Capture control server control tables to the Version 8 architecture, if the existing `captureschema.IBMSNAP_REGISTER` is already populated with valid Replication definitions.
  - If the control table is empty, simply drop the pre-V8 Capture server control tables and issue the Replication task again.

Otherwise, the architecture level is not valid. You need to drop the tables manually before attempting to create the tables.

Some Capture server control tables already exist with the same Capture Schema but for which an architecture level cannot be determined.

**Explanation:** The table `captureschema.ASN.IBMSNAP_REGISTER` does not exist although other Capture server control tables were found at the given server. Capture server control tables cannot be created until the tables are dropped. The Replication definitions at the Capture server are in an inconsistent state.

**User response:** Drop the remaining Capture server control tables to clean up the Capture control server definitions, and reissue the Create control table task. Loss of data occurs, so look at the content of the remaining control tables before issuing the drop task.

The Capture server control tables are not at the architecture level requested.

**Explanation:** The table `captureschema.IBMSNAP_REGISTER` does not exist with the provided architecture level. No script is generated.

**User response:** Issue the replication task again at the appropriate architecture level for the appropriate Capture control server and Capture schema.
ASN1632E Some Apply control server control tables already exist but for which an architecture level cannot be determined.

Explanation: The table ASN.IBMSNAP_SUBS_SET does not exist although other Apply control server control tables were found at the given server. Apply control server control tables cannot be created until the tables are dropped. The Replication definitions at the Apply control server are in an inconsistent state. No script is generated.

User response: Drop the remaining control tables on the Apply control server to clean up the Apply control server replication definitions. Reissue the Create control table task. Loss of data occurs, so look at the content of the remaining control tables before issuing the Drop task.

ASN1633E The Apply control server control tables are not at the architecture level requested.

Explanation: The table ASN.IBMSNAP_SUBS_SET does not exist with the provided architecture level. No script is generated.

User response: Issue the replication task again at the appropriate architecture level for the appropriate Apply control server.

ASN1634E No Apply control server control tables were found.

Explanation: There are no control tables to drop from the Apply control server. No script is generated.

User response: Issue the replication task again at the appropriate architecture level for the appropriate Apply control server.

ASN1635E Some Apply control tables already exist but their architecture level cannot be determined. The replication action action_name for the provided architecture level arch_level will drop control tables that might not belong to the architecture level provided.

Explanation: The table ASN.IBMSNAP_SUBS_SET does not exist on the Apply control server. The replication architecture level is unknown, and if you provide an incorrect architecture level, you might lose critical data. No checks occur to determine whether a particular Apply control server control table architecture level can be inferred. If the control table exists, it is dropped. A script is generated.

User response: Reissue the task with the appropriate architecture level for replication.

ASN1636E The Replication Action of Manual Full Refresh ended with an error for the Apply qualifier apply_qual and set name set_name. The synchpoint in the capschema.IBMSNAP_PRUNCNTL table for the source member sourceowner.sourcetable and the target member targetowner.target_table is not translated by the Capture program.

Explanation: The synchpoint is either less than 0 or equal to hex zeros.

User response: Make sure you run the before load script to translate the hex zeros and capture is running on the server.

ASN1637E The replication action 'Manual Full Refresh' ended in error for the Apply qualifier apply_qualifier and the set name set_name. The target structure of at least one of the target subscription-set members in the given subscription set is greater than eight. None of the subscription-set members is eligible for a manual full refresh.

Explanation: The target structure of at least one of the target subscription-set members in the given subscription set is greater than eight. A manual full refresh does not support target structures that are greater than eight.

User response: Make sure that the target structure of the subscription-set member is less than or equal to eight, and then reissue the replication task.

ASN1638W The subscription-set member with a target of targetowner.targetname and a source of sourceowner.sourcename is not complete. This subscription-set member is not included in the manual full refresh.

Explanation: The manual full refresh supports complete targets only. The given subscription-set member is not complete and cannot be included.

User response: No action is required.

ASN1639E The replication action 'Manual Full Refresh' ended in error for the Apply qualifier apply_qualifier and the set name set_name. None of the target subscription-set members in the given subscription set is complete or eligible for a manual full refresh.

Explanation: The manual full refresh supports complete targets only, and none of the targets is complete.

User response: Make sure that at least one of the
subscription-set members in the subscription set is complete, and reissue the replication task.

**ASN1640E** The replication action ended in error for the Apply qualifier `apply_qualifier` and the set name `set_name`. There are no subscription-set members in the subscription set.

**Explanation:** The subscription set does not contain any subscription-set members.

**User response:** Add at least one subscription-set member to the subscription set, and reissue the replication task.

**ASN1641E** The replication action `action_name` ended in error. This action on an OS/400 system is supported only through OS/400 commands.

**Explanation:** Neither the replication center nor the command line supports the replication action on an OS/400 system. The possible actions might be: creating capture server control tables, creating apply server control tables, dropping capture server control tables, or dropping apply server control tables.

**User response:** Issue OS/400 commands to perform the replication action.

**ASN1650I** The replication action `action_name` started at `timestamp`. The monitor server is `server_name` and the Group_or_Contact name is `group_name_or_contact_name`.

**Explanation:** The replication action started at the specified monitor server.

**User response:** This message is for your information only, and no action is required.

**ASN1653I** The replication action `action_name` for `group_contact_or_condition_name` ended successfully at `timestamp`. The monitor server is `server_name`.

**Explanation:** The replication action ended successfully at the specified monitor server.

**User response:** This message is for your information only, and no action is required.

**ASN1654E** The replication action `action_name` ended in error. The length of the input parameter `parameter-name`, `parameter_length` exceeds the limit `maximum-limit`.

**Explanation:** The length of the specified input parameter is longer than the maximum allowable length. No script is generated.

**User response:** Verify the input parameter value, and re-enter the parameter value.

**ASN1655E** The replication action `action_name` ended in error. The value `input_value` of the input parameter `input_parameter` is incorrect.

**Explanation:** The value of the specified input parameter is not correct.

**User response:** Refer to your documentation for valid parameter values.

**ASN1656E** The replication action `action_name` ended in error. The value of the input parameter `input_parameter` is missing.

**Explanation:** A value for this specified input parameter is mandatory for this action. However, the value is missing. No script is generated.

**User response:** Enter a value for this mandatory input parameter, and rerun the replication action.

**ASN1657E** The replication action `action_name` ended in error. At least one optional parameter value must be specified.

**Explanation:** You must specify at least one optional parameter value when issuing a command in which each parameter value is optional. No script is generated.

**User response:** Issue the command again with the correct parameters.

**ASN1658E** The replication action `action_name` ended in error. The value `value1` of the input parameter `input_parameter1` must be different than the value `value2` of the input parameter `input_parameter2`.

**Explanation:** The value of one input parameter is the same as the value of another input parameter and will result in the creation of inconsistent definitions. No script is generated.

**User response:** Issue the command again with valid parameter values.

**ASN1659E** The replication action `action_name` ended in error. The contact `contact-name` already exists.

**Explanation:** The specified contact name already exists in one of the rows in the `ASN.IBMSNAP_CONTACTS` table. Contact names must be unique. No script is generated.

**User response:** Issue the command again with a different contact name.
ASN1660E  The replication action action_name ended in error. The contact contact-name does not exist.

Explanation: The specified contact name does not exist in any of the rows in the ASN.IBMSNAP_CONTACTS table. The contact name must exist in the ASN.IBMSNAP_CONTACTS table before you can alter, substitute, delegate, or drop the name. No script is generated.

User response: Issue the command again with a different contact name.

ASN1661E  The replication action action_name ended in error. The contact contact-name cannot be dropped, because dropping the contact empties each associated group.

Explanation: A group should have at least one associated contact. The specified contact is the last contact in each associated group, and the last contact cannot be dropped. No script is generated.

User response: Drop each associated group before attempting to drop the contact.

ASN1662E  The replication action action_name ended in error. The contact contact-name cannot be dropped, because the contact is associated with one or more conditions.

Explanation: The contact name that you are attempting to drop is the only contact associated with conditions for either the Capture or Apply components. No script is generated.

User response: Use the SUBSTITUTE option in the DROP CONTACT command, or use the SUBSTITUTE command to change the contact name of the conditions. If you do not need the conditions, drop the conditions and then drop the contact.

ASN1663E  The replication action action_name ended in error. The contact contact-name is already associated with the specified group group_name.

Explanation: The contact name that you specified is already associated with the specified group.

User response: Verify the specified contact name and reissue the command.

ASN1664E  The replication action action_name ended in error. The group group-name already exists.

Explanation: The specified group name already exists in one of the rows in the ASN.IBMSNAP_GROUPS table. Group names must be unique.

User response: No action is required.

ASN1665E  The replication action action_name ended in error. The group group-name does not exist.

Explanation: The specified group name does not exist in any of the rows in the ASN.IBMSNAP_GROUPS table. The group name must exist in the ASN.IBMSNAP_GROUPS table before you can alter or drop the group name. No script is generated.

User response: Verify the group name, and reissue the command.

ASN1666E  The replication action action_name ended in error. The group group-name cannot be dropped because it is associated with one or more conditions.

Explanation: The group that you are attempting to drop is the only group associated with conditions for either the Capture or Apply components. No script is generated.

User response: In order to drop the group, alter the contacts of the associated conditions and then reissue the command.

ASN1667E  The replication action action_name ended in error. The alert condition condition-name already exists for the monitor qualifier mon-qual, the server server-name, the schema or qualifier schema-or-qualifier, and the subscription-set name set-name.

Explanation: The alert condition that you are attempting to create already exists with the same
specified parameters on the monitor control server.

User response: Verify this alert condition and issue the command again.

---

**ASN1672E** The replication action `action_name` ended in error. The alert condition `condition-name` does not exist for the monitor qualifier `mon-qual`, the server `server-name`, the schema or qualifier `schema-or-qualifier`, and the subscription-set name `set-name`.

Explanation: The alert condition that you are attempting to drop or to alter does not exist on the monitor control server.

User response: Verify the alert name and issue the command again.

---

**ASN1673W** The condition `condition_name` is valid only at the apply qualifier level.

Explanation: The condition name is not valid with a subscription-set name value. The name of the subscription set will be ignored.

User response: Do not specify the subscription-set name value.

---

**ASN1674W** The condition `condition_name` is valid only with update-anywhere subscription sets.

Explanation: The condition name is valid only with update-anywhere subscription sets.

User response: Do not set this condition. This condition will be ignored.

---

**ASN1675I** This is a test message from the Replication Center.

Explanation: This message is used to send a test e-mail verifying the e-mail address entered in the contact.

User response: This message is for your information only, and no action is required.

---

**ASN1676E** The replication action `action_name` ended in error. The apply qualifier `apply-qual` and the subscription-set name `set-name` do not exist on the server `server-name`.

Explanation: The apply qualifier and the subscription-set name do not exist in the IBMSNAP_SUBS_SET table on the specified apply control server.

User response: Supply a valid apply qualifier and a valid subscription-set name.

---

**ASN1678E** The replication action `action_name` ended in error. The capture schema `cap-schema` does not exist on the server `server-name`.

Explanation: The capture schema does not exist in the ASN.IBMSNAP_CAPSCHEMAS table on the specified capture control server.

User response: Supply a valid capture schema.

---

**ASN1679E** The replication action `action_name` ended in error. The contact `contact_name` that you attempted to substitute is not associated with a condition.

Explanation: The contact name does not exist in the ASN.IBMSNAP_CONDITIONS table. A contact can be substituted only if it exists in the ASN.IBMSNAP_CONDITIONS table. No script is generated.

User response: Supply a valid contact name.

---

**ASN1680I** The replication action `action_name` started at `time`. The Monitor server is `server_name`.

Explanation: This message is for your information only.

User response: No action required.

---

**ASN1681E** The request to create the monitor server failed. Monitor control tables of the architecture level `arch_level` already exist.

Explanation: The monitor control tables already exist on the given server. No SQL script is generated.

User response: If the existing monitor control tables are of an older level:

- If the existing monitor control tables are already populated with valid replication definitions, migrate the monitor control tables to the latest version supported by replication.
- If the ASN.IBMSNAP_ALERTS table and the ASN.IBMSNAP_CONDITIONS table are empty, drop the older version monitor control tables and reissue the replication task again.

Otherwise, the architecture level is not valid. You need to drop the tables manually before attempting to create the tables.

If the architecture level of the existing monitor control tables stored in the ARCH_LEVEL column of the ASN.IBMSNAP_MONPARMS table is at the latest level supported by replication, there is no need to run the command since the control tables already exist.
ASN1682E The replication action action_name ended in error. No Monitor control tables were found.

Explanation: There are no Monitor control tables to drop. No script will be generated.

User response: Issue the replication task again for the appropriate server containing the Monitor control tables.

ASN1683E The replication action action_name ended in error. A row with the specified capture schema already exists in the ASN.IBMSNAP_CAPSCHEMAS table even though the Capture control tables do not exist under that Capture schema.

Explanation: The IBMSNAP_CAPSCHEMAS table already contains the Capture schema value that was specified as input for the "Create Capture Server Control tables" action. The Capture schema value must be unique.

User response: Make sure that you have specified the correct value for the Capture schema field and delete the row containing the specified Capture schema from the IBMSNAP_CAPSCHEMAS table. Reissue the task.

ASN1684W The nickname nicknameowner_nickname for the replication control table controlowner.control_table was not found on the federated database.

Explanation: You tried to drop a nickname of a replication control table that was already dropped or deleted; therefore, the generated script does not contain a DROP statement for that nickname.

User response: This message is for your information only, and no action is required.

ASN1685W The object objectowner.object_name of type object_type could not be found on the non-DB2 relational server.

Explanation: You tried to drop a replication object that was already dropped or deleted; therefore, the generated script does not contain a DROP statement for that replication object.

User response: This message is for your information only, and no action is required.

ASN1686E The name length length for the non-DB2 relational object object_name exceeds the allowed limit of allowed_limit.

Explanation: A non-DB2 object name was specified whose length is longer than the maximum length allowed for the actual object.

User response: Refer to the SQL reference for your database.

ASN1687E The replication action action_name ended in error. The table space tablespace_name does not belong to the IBMCATGROUP node group.

Explanation: The specified table space does not belong to the default IBMCATGROUP node group. The replication action does not support this node group.

User response: Verify the table space name and reissue the task.

ASN1688E The replication action action_name ended in error. The specified table space options tableowner.tablename are not valid.

Explanation: You can customize the table space when you create the control tables. You can use existing table space, a new table space, or a table space that has already been specified for another control table earlier in the same session. The values specified in these table space options are ambiguous. There are either no values, or more than one value is specified for these table space options.

User response: Verify the values of the table space options and reissue the task.

ASN1689E The replication action action_name ended in error. There are no alert conditions for the monitor qualifier monitor_qualifier_name, the server capture_or_apply_server, and the schema or qualifier schema_or_qualifer.

Explanation: No alert conditions are defined for the specified monitor qualifier, Capture or Apply control server, and schema or Apply qualifier.

User response: Define at least one alert condition for the monitor qualifier, Capture or Apply control server, and schema or Apply qualifier.

ASN1700E The column tableowner.tablename.columnname of data type data_type cannot be included in the registration. Reason code reason_code.

Explanation: The column cannot be supported by the replication capture program as defined. No script to register the specified is generated. The following values are valid for the reason code:

0 The data type is not supported.
1 The column is already registered.
2 z/OS fieldproc column.
3 This column does not qualify as a before-image column.
4 The data type is not supported through DB2 for federated.
The column does not exist in the source object.
The maximum number of registered LOB columns was exceeded for that table.
The column name starts with the before-image prefix.
This column does not qualify as a before-image column or as an after-image column.
A mixed-case column name is not supported when the source table is on a non-DB2 server.
This column name is a duplicate of one already provided for this source.

User response: Check the reason code to determine why the column cannot be registered.
User response: Check the reason code to determine why the table cannot be registered for change-capture replication.

ASN1701E  The provided locksize value lock_size for the given table space tablespace_name is not valid.

Explanation: Locksize should be equal to the P(PAGE), R(ROW) or A(ANY), in the case of z/OS operating system.
User response: Provide the correct locksize and submit your action again.

ASN1702W  Replication definitions for the registered column objectowner.objectname.columnname has been changed to support null values.

Explanation: before-image columns are required to support null values. If no before-image column value is present, an INSERT statement will fail. A script is generated to update user-provided definitions.
User response: This message is for your information only; no action is required.

ASN1703E  The table tableowner.tablename cannot be registered for change-capture replication. Reason code reason_code.

Explanation: The table cannot be supported by the capture program as defined. No script is generated. The following values are valid for the reason code:

0 The table with a z/OS validproc.
1 Existing internal CCD table.
2 Existing CD table.
3 DB2 catalog table (Windows, UNIX, iSeries)
4 The table is already registered.

The source for an internal CCD table is not a registered source.
The source is a CD table and cannot be registered.
This source name is a duplicate for this session.
The source is a replication control table.
Not one of the source columns qualifies for registration.
The maximum number of registered LOB columns has been exceeded for this table.
Structured data types are not supported.
The before-image prefix can be only one character.
An internal error occurred.
A blank character is not a valid before-image prefix.
iSeries: The source table or view should not have blank spaces in it.
iSeries: A blank space character is not valid in the CD Table Owner/Name field.
iSeries: For a given source, you cannot register some before-image columns and some after-image only columns. Either all or none of the columns must have the before-image.
The CD name for this source is a duplicate; that CD name already exists for this session.
The source object type is not a valid object type for replication.

User response: Check the reason code to determine why the table cannot be registered for change-capture replication.
User response: Check the reason code to determine why the view cannot be registered.

ASN1704E  The view viewowner.viewname cannot be registered. Reason code reason_code.

Explanation: The view cannot be supported by the Replication Capture mechanism, as defined. No script is generated. The following values are valid for the reason code:

0 None of the dependent tables for the view are registered.
1 The source-table columns on which the view is dependent are not registered.
The view is on an internal ccd.

The view is already registered.

The view has an 'OUTER JOIN' syntax.

The view includes more than one table or view column with a function, and no correlation is provided in the view definition for each table.

The view contains a reference to an aggregate function.

The view contains a subselect/subquery.

The view contains a reference to another view.

The view has an UNION.

No correlation is provided for the column.

The base table does not have the schema name.

The base table does not exist.

The view contains Table Expression as Table.

The dependent table does not exist.

A view on view cannot be registered.

The given source object is not a view.

This source view is a duplicate for this session.

The view definition cannot be supported.

The view has an asterisk (*) instead of a specific column name in the view definition.

The view contains the join of a CCD and a non-CCD table.

The view defined at the CCD table must be complete and condensed.

The dependent table is a nickname.

A federated registration expects a nickname to be registered as a source.

**User response:** Check the reason code to determine why the view cannot be registered. If appropriate, fix the problem and register the view again.

---

**ASN1705E**  The change data object, objectowner.objectname already exists in the server.

**Explanation:** The change data table or view cannot be used for the current source to be registered, because it already exists at the Capture server. No script is generated.

**User response:** Provide a different name for the change data object.

---

**ASN1706W** A column column_name is added to a registered source sourceowner.sourcename. The registered source maintains an Internal CCD table. The new column has to be first added to the CCD table subscription member before adding to any existing or not-yet existing subscription member.

**Explanation:** If the new column is needed in dependent subscription sets, you first have to add the column to the internal CCD subscription member before adding the column to any subscription member needed.

**User response:** Provide a different name for the change data object.

---

**ASN1707W** The replication action Alter Registration for sourceowner.sourcename is not in effect until a Capture REINIT command is issued at the Capture server.

**Explanation:** The registered source is successfully updated. However, the Capture program does not recognize the corresponding captureschema.IBMSNAP_REGISTER table updates until a REINIT command forces it to do so. A script is generated. A Capture command is required afterwards for the effect of the script to be in action.
User response: To make the changes effective immediately:
1. Run the generated script.
2. Issue a REINIT of the appropriate Capture program, for the appropriate Capture schema.

ASN1708E The table, view or nickname objectowner.objectname is not a Replication registered source.

Explanation: The specified replication object is not defined in the replication control tables. No script is generated.

User response: Ensure that the object is correctly specified in the command and it exists.

ASN1709W Associated subscription sets will not be valid after the registered source sourceowner.sourcename is dropped.

Explanation: Subscription members rely on the underlying source registrations that define the source member. If you drop a registered source table, the dependent source members of a subscription set are no longer valid. The subscription sets that are associated with the specified registration source can be found in the capturecontrolserver.IBMSNAP_PRUNCNCTL table at the Capture control server, where the SOURCE_OWNER and SOURCE_TABLE correspond to the registered source that is dropped. The appropriate Apply control server and subscription set names are columns in the IBMSNAP_PRUNCNCTL table. The associated subscription sets fail if Apply is running. A script is generated.

User response: Deactivate or drop the dependent subscription sets before running the script, if the registered source has dependent subscription sets.

ASN1710W Dependent view registered sources will not be valid after the registered source sourceowner.sourcetable is dropped.

Explanation: View registrations rely on the underlying registration of the tables that make up the view definition. If you drop a registered source table, you invalidate any view registration that is based on the table. The views that might be affected can be found in the capturecontrolserver.IBMSNAP_REGISTER table at the Capture server, where the PHYS_CHANGE_OWNER and PHYS_CHANGE_TABLE are the same as the CD_OWNER and CD_TABLE of the registered source that is dropped. The associated subscription sets, which depend on the view registrations, fail if Apply is running. A script is generated.

User response: Deactivate or drop the appropriate subscription sets, or view registrations, before running the script, if the registered source has dependent view registrations.

ASN1711W The source sourceowner.sourcename is still active so dropping it will result in a Capture failure.

Explanation: An active registration has a SYNCHPOINT value that is not null in its captureschema.IBMSNAP_REGISTER table. When the Capture program started, it expected all active registrations to always exist and be valid. So the Capture program needs to be signaled that a registered source was dropped because the drop action invalidates the registration information. Failure to provide that information to the Capture program causes the Capture program to fail. A script is generated, but is NOT ready to run.

User response:
1. Deactivate the appropriate registration (via the Replication Center GUI, or by issuing the STOP signal and a command type of CMD).
2. Wait for a SIGNAL_STATE of Complete in the captureschema.IBMSNAP_SIGNAL table.
3. Run the script that drops the registration.

ASN1712E The registered source sourceowner.sourcename cannot be deactivated. Reason code reason_code.

Explanation: The following values are valid for reason code:
0 The source is registered as a FULL REFRESH and therefore cannot be deactivated.
1 The source is a CCD and CCD registrations cannot be deactivated.
2 The source is a view and view registrations cannot be deactivated.

User response: This message is for your information only, and no action is required.

ASN1713E The registered source sourceowner.sourcename cannot be altered. Reason code reason_code.

Explanation: The following values are valid for reason code:
0 The CD table for this source has RRN column
The RRN column must be the last column in the table, so the source cannot be altered.

1 The source is a view, and view registrations cannot be altered.

2 The source is registered for full refresh and cannot be altered.

3 The source table column does not match the column being altered.

4 The column is a LOB, DATALINK, or ROWID data type and does not qualify for a before-image value.

5 The before-image column value cannot be null or a blank character.

6 An after-image value has not been registered for the given column.

7 The before-image prefix cannot be updated if it is used with an existing registered source.

8 The use of the current before-image prefix makes one of the columns ambiguous in this registered source.

9 The before-image prefix can be only one character.

10 An internal error occurred.

11 The specified registration source name is a duplicate of a source included with that was changed, and the script for that registration was not yet executed.

12 The conflict level cannot be updated for the replica registration.

User response: Check the reason code to determine why the source cannot be altered, and refer to the replication documentation in the IBM Information Management Software for z/OS Solutions Information Center or DB2 Information Center for details on how to correct these errors.

ASN1715E The replication action ended in error. The native OS/400 message is as400native_message.

Explanation: An error was encountered while issuing the appropriate command on the OS/400 operating system or iSeries server. No script is generated.

User response: Refer to the OS/400 Console Log for more detailed error information.

ASN1716W The replication action ended with a warning. The native OS/400 message is as400native_message.

Explanation: A warning was encountered while issuing the appropriate command on the OS/400 operating system or iSeries server. A script is generated.

User response: Refer to the iSeries Console Log for more detailed warning information.

ASN1717I The replication action ended with an Informational Clause. The native OS/400 message is as400native_message.

Explanation: An informational message was encountered while issuing the appropriate command on the OS/400 operating system or iSeries server. A script is generated.

User response: This message is for your information only, and no action is required.

ASN1718E The nickname nicknameowner.nickname cannot be registered. Reason code reasoncode.

Explanation: The nickname is not supported by the Capture program as defined. No script is generated.

The following values are valid for the reason code:

0 The internal CCD table (your CD table) already exists.

1 The nickname is on the native catalog table.

2 The nickname is already registered.

3 A federated registration expects a nickname as a source to be registered.

4 No columns are eligible for the Capture program.

5 The provided nickname is a duplicate from an earlier registration, but the corresponding script has not been executed.

6 A federated registration supports only user tables.

7 A federated registration supports only noncondensed and noncomplete CCD tables.

8 The CCD nickname provided is a duplicate of a CCD nickname from an earlier registration, but the script for that registration has not yet been executed.

9 Remote server information is not provided for the nickname registration.

User response: Check the reason code to determine why the nickname cannot be registered.

ASN1719W The non-IBM triggers that were defined for registered source nicknameowner.nickname will be dropped. Any additional logic later provided by users in these triggers will be lost.

Explanation: Dropping a registered source implies dropping all the objects that were created during the
source registration, regardless of later updates. A script is generated.

**User response:** Copy the trigger logic before dropping the registered source, if needed.

---

**ASN1720E**  Change Data table information for the source nickname `nicknameowner.nickname` is not found in the `capschema.IBMSNAP_REGISTER` table.

**Explanation:** A row is found in the `captureschema.IBMSNAP_REGISTER` table for the given source nickname but the CCD table information for that source is missing. The Change data table information is required to drop the replication definitions. A script is not generated.

**User response:** Please make sure the correct source name is given and call the action again.

---

**ASN1722W**  The view `view_owner.viewname` will be registered as full refresh, because all the base tables of this view are registered as full refresh.

**Explanation:** The view must be registered as full refresh, because the base tables of this view are registered as full refresh only or are not registered replication sources.

**User response:** No action is required.

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**ASN1723W**  The view `viewowner.viewname` will be registered for change-capture replication, because one or more base tables from this view are registered for change-capture replication.

**Explanation:** The view must be registered for change-capture replication, because the base tables of this view are registered for change-capture replication.

**User response:** No action is required.

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**ASN1724E**  The name of the object that you are creating on the non-DB2 relational server is identical to the `objectowner.objectname` of type `objecttype`.

**Explanation:** The object that you specified cannot be created, because there is an existing object with the same type and same name on the non-DB2 relational server.

**User response:** Provide a unique name for the object, and reissue the replication task.

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**ASN1725W**  The trigger named `triggerowner.trigger_name` already exists on the remote table `remoteowner.remotetablename`. You must not run the generated script until you have determined how to merge the contents of the existing trigger with the generated trigger definition.

**Explanation:** An trigger with this name already exists on the remote table in the non-DB2 relational database. The database manager might not indicate a conflict and might subsequently overwrite your existing trigger if you run the `CREATE TRIGGER` statement in the generated script. The database manager also might return a SQL error indicating that the object already exists. Generated trigger names cannot be customized, because customized triggers cannot be dropped when the registration is dropped.

**User response:** First, determine how to merge the pre-existing triggers with the generated triggers. Then, either create your own script to merge your existing logic with the trigger logic that is generated by the replication tool, or update the script that is generated by the replication tool to include your existing trigger definitions.

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**ASN1726W**  The trigger named `triggerowner.trigname` does not exist in the remote table `owner.tablename` on the remote server `rmtservername`.

**Explanation:** The trigger does not exist on the remote database. The trigger might have been dropped.

**User response:** No action is required.

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**ASN1727I**  The registered source `registered_source` is deactivated.

**Explanation:** The specified registered source has already been deactivated.

**User response:** This message is for your information only, and no action is required.

---

**ASN1728W**  The CCSID `Unicode_ASCII_EBCDIC` of the change data (CD) table `cdowner.cdname` for the source table `sourceowner.sourcetable` does not match the CCSID `Unicode_ASCII_EBCDIC` of the `IBMSNAP_UOW` table for the capture schema `captureSchema`.

**Explanation:** For the given capture schema, the Apply program will join the `IBMSNAP_UOW` table and the CD table of the given source if the column `JOIN_UOW_CD` in the `ASN.IBMNSNAP_MEMBR` table is set to Y. This column contains Y if the target type of the associated subscription-set member is not user copy, or if any columns of the `IBMSNAP_UOW` table are
used in the WHERE clause of the subscription-set member. If the Apply program joins tables with different encoding schemes, an error will occur. For more information about encoding schemes, see "UNICODE and ASCII encoding schemes" in the IBM Information Management Software for z/OS Solutions Information Center or DB2 Information Center.

**User response:** For subscription members that will use this registration, define the target table with a type of user copy and do not use any IBMSNAP_UOW columns in the WHERE clause.

---

**ASN1729E** The registration for the nickname **nicknameowner.nickname** cannot be dropped. The **reason code** is reasoncode.

**Explanation:** The registration for this nickname cannot be dropped. No script is generated. The following value is valid for the reason code:

- **0** The specified nickname is a duplicate of a nickname included with a prior registration drop. However, the script for that registration drop has not yet been executed.

**User response:** Review the reason code explanation, and refer to the replication documentation in the IBM Information Management Software for z/OS Solutions Information Center or DB2 Information Center for additional explanations and restrictions.

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**ASN1730W** The procedure **procedureowner.procedurename** already exists in the remote server **remote_server**. The content of the existing procedure must be merged with the generated procedure definition before the generated script is run.

**Explanation:** A procedure with this name already exists in the non-DB2 relational database. The database manager might not indicate a conflict and could subsequently overwrite your existing procedure if you run the CREATE PROCEDURE statement in the generated script. Or, an SQL error might be returned indicating that the object already exists. Generated procedure names cannot be customized because customized procedures cannot be dropped when the registration is dropped.

**User response:** Determine how to merge the existing procedures with the generated procedures. Then, either create your own script to merge your existing logic with the procedure logic that is generated by the replication tool, or update the script that is generated by the replication tool to include your existing procedure definitions.

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**ASN1731W** The column **column_name** of data type **datatype** in the non-DB2 relational database table will be converted to a data type **datatype** in the nickname by the federated wrapper. The **reason code** is reason_code.

**Explanation:** The following value is valid for the reason code:

- **0** The non-DB2 relational database is an Oracle database and the Number column in that table will be converted to a Double data type in the nickname by the federated server.

**User response:** This message is for your information only, and no action is required.

---

**ASN1732E** The replication action **action_name** ended in error. The source table **srcowner.srctable** must be journaled with both before-images and after-images.

**Explanation:** The native OS/400 command requires the source table to be journaled with both the before-image and after-image columns before registration.

**User response:** Journal the source table with both the before-images and after-images before executing the generated script for the table registration.

---

**ASN1733E** The registration of the source **srcowner.srctable** cannot be dropped. The **reason code** is reason_code.

**Explanation:** The following value is valid for the reason code:

- **0** The provided source is a duplicate from a prior DROP registration, but the corresponding script was not executed.

**User response:** Check the name of the source provided and issue the task again.

---

**ASN1734W** Definitions for registered sources that have dependent views will not be updated with the columns that were for the registered source **srcowner.srctable**.

**Explanation:** You are attempting to alter or add one or more columns to an existing registered source. The source registration has dependent view registrations, but the altered columns will not be reflected in the view registration definitions.

**User response:** To update the view registration definition so that new column information is reflected in the view registration:

1. Drop the current view registration.
2. Re-create the view registration.
No action is required if you do not want the new column information to be reflected in the view registration.

**ASN1735E** The table, view, or nickname owner.name cannot be registered. There are subscription set members associated with the source table from a previous registration that was dropped. The definitions requested for the current registration conflict with the definitions stored in the replication control tables for the existing subscription set members. The reason code is reason_code.

**Explanation:** The table, view, or nickname was previously registered and dropped. However, the associated subscription set members were not dropped and the information for these members still exists in the replication control tables. To avoid any problems with the Capture and the Apply programs, the table or nickname is being re-registered and the information being requested needs to match the information that is stored in the control tables for the orphan members. The following values are valid for the reason code:

- **0**: You are attempting to register the table or nickname for FULL REFRESH ONLY. The rows in the IBMSNAP_PRUNCNTL table indicate that this table or nickname was previously registered with the change-capture mechanism and the registration was dropped.
- **1**: You are attempting to register the table or nickname with the change-capture mechanism. The rows in the IBMSNAP_PRUNCNTL table indicate that this table or nickname was previously registered as FULL REFRESH ONLY and the registration was dropped.
- **2**: You are attempting to register the table or nickname with the change-capture mechanism. The source table was previously defined and was dropped. The values of the PHYS_CHANGE_OWNER and PHYS_CHANGE_TABLE columns in the IBMSNAP_PRUNCNTL table do not match with the input values specified for the CD/CCD owner or the CD/CCD table fields.

**User response:** Take the specific actions for the following reason codes:

- **0**: Register the table or nickname with the change-capture mechanism.
- **1**: Register the table or nickname as FULL REFRESH ONLY.
- **2**: Register the table or nickname and make sure that the change data or the consistent change data owner and the table names match those that are in the IBMSNAP_PRUNCNTL field.

Do not customize these values so that the replication action will take the values stored in the control table.

**ASN1736W** The name of the before-image column for the column column_name of data type datatype will be truncated. The length of the column name plus the before-image prefix exceeds the allowed column name limit allowed_limit for the non-DB2 relational database.

**Explanation:** When the specified before-image prefix is appended to the column name, the name is longer than the maximum allowed column name limit on the non-DB2 relational server. The column name is truncated from the trailing end such that the length of the column name is equal to the maximum length.

**User response:** This message is for your information only, and no action is required.

**ASN1737W** The replication action action_name is unable to derive enough information to re-create the procedure or the trigger definition on the IBMSNAP_PRUNCNTL table.

**Explanation:** The procedure or trigger definition on the IBMSNAP_PRUNCNTL table recognizes the CCD tables for all the registered nicknames. Each time that a nickname is registered or dropped from the registration, the procedure or trigger on the IBMSNAP_PRUNCNTL table is dropped and rebuilt using the new information for that particular nickname. The information specified for this registration does not contain the necessary information to define the procedure or the trigger on the IBMSNAP_PRUNCNTL table; therefore, the generated script does not contain a DROP or CREATE statement for the procedure or trigger.

**User response:** Drop the registration for the missing nickname or the missing table.

**ASN1738W** The procedure or trigger name on the IBMSNAP_PRUNCNTL table could not be found on the remote server.

**Explanation:** The procedure or trigger definition on the IBMSNAP_PRUNCNTL table recognizes the CCD tables for all the registered nicknames. Each time a registration is created, the procedure or trigger on the IBMSNAP_PRUNCNTL table is dropped and re-created with the existing and new registration information. The definitions stored in the control tables indicate that there are prior registrations on this server, but the procedure on the IBMSNAP_PRUNCNTL table could not be found. The procedure will still be created on the IBMSNAP_PRUNCNTL table with the definitions stored in the control tables.
User response: Ensure that the generated procedure or trigger statement on the IBMSNAP_PRUNCNTL table has all the registered sources.

ASN1739W  The column name column_name of data type datatype in the user table will be created as a new data type new_datatype in the CCD table in the non-DB2 relational database. The reason code is reason_code.

Explanation: The following value is valid for the reason code:
- 0: You cannot insert or update a column of data type TIMESTAMP in a Sybase or a Microsoft SQL Server database. A CCD table is being created on one of the non-DB2 relational systems with a column using data type TIMESTAMP (IBMSNAP_SYBTMSTMP column or the IBMSNAP_MSTMSTMP column). A table in a Sybase or Microsoft SQL Server database cannot have more than one column with a data type of TIMESTAMP; therefore, the data type of the column in the user table will be converted to a Binary(8) data type.

User response: No action is necessary if the new data type is acceptable. If the new data type is unacceptable, do not run the generated script. Remove the specified column selection from the registration definition and reissue the task.

ASN1740W  The CCD nickname nicknameowner.nickname exists in the federated server but the remote CCD table tableowner.tablename does not exist in the non-DB2 server. This table information will not be included in the re-creation of the PRUNCNTL procedure or trigger.

Explanation: The procedure or trigger definition on the IBMSNAP_PRUNCNTL table recognizes the CCD tables for all the registered nicknames. Each time a registration is created, the procedure or trigger on the IBMSNAP_PRUNCNTL table is dropped and re-created with the existing and new registration information. The CCD nickname does not exist in the federated server. This table will not be included in the re-creation of the PRUNCNTL trigger or procedure.

User response: Determine why the CCD nickname was dropped. If the nickname was dropped by mistake, either drop the registration of that source or re-create the CCD nickname.

ASN1741W  The CCD nickname nicknameowner.nickname does not exist in the federated server. This table information will not be included in the re-creation of the PRUNCNTL procedure or trigger.

Explanation: The procedure or trigger definition on the IBMSNAP_PRUNCNTL table recognizes the CCD tables for all the registered nicknames. Each time a registration is created, the procedure or trigger on the IBMSNAP_PRUNCNTL table is dropped and re-created with the existing and new registration information. The CCD nickname does not exist in the federated server. This table will not be included in the re-creation of the PRUNCNTL trigger or procedure.

User response: Determine why the CCD nickname was dropped. If the nickname was dropped by mistake, either drop the registration of that source or re-create the CCD nickname.

ASN1742E  The source nickname nickname_owner.nickname on the platform platform cannot be registered without first migrating registrations to the architecture level arch_level.

Explanation: There are existing registrations in the IBMSNAP_REGISTER table for non-DB2 relational sources that pertain to an earlier architecture level. You cannot register a new source until you migrate all registrations to the new architecture level.

User response: Migrate your existing registrations for non-DB2 relational sources to the current architecture level. For details, refer to Migrating to SQL Replication Version 8.

ASN1800E  The subscription set set_name already exists for the Apply qualifier apply_qual, WHOS_ON_FIRST whos_on_first, at the Apply control server server_alias.

Explanation: There can only be one subscription set with the same name, for a given Apply qualifier and Apply control server. No script is generated.

User response: Create a new set name, or add new members to the existing set.

ASN1801E  The statement number statement_number is associated with a statement string length statement_stringlength that exceeds the maximum statement length for the Apply qualifier apply_qual, the set name set_name, WHOS_ON_FIRST value _whos_on_first, at the Apply control server server_alias.

Explanation: The length of the statement exceeds the allowed limit (1024 in V8). No script is generated.
User response: Rework the statement string so that its length is less than the allowed limits.

**ASN1802W** The Replication subscription source member is defined with RECAPTURE='N'. All changes to the replica target will not be propagated to the other replica targets.

Explanation: In an update-anywhere scenario, changes made in one target replica will not be recaptured at the source when RECAPTURE='N'. If there is more than one target replica that subscribes to the same source, then the changes made to one target replica will not be reflected in the other replica targets.

User response: If you want the changes propagated to the other replica targets, set RECAPTURE='Y'.

**ASN1803I** There exist orphan_statements Replication subscription set statements from a previously defined subscription set that was later dropped. These orphan statements are not dropped for the subscription set, for the provided Apply qualifier, at the provided Apply control server.

Explanation: A previous subscription set was dropped, without dropping all its appropriate statements. A script is generated for the new subscription set which shares the same name as the previous subscription set that was dropped. The previous subscription Statements are not dropped.

User response: Issue a Drop Subscription Statements to delete the orphan statements.

**ASN1804I** The Replication subscription set MAX_SYNCH_MINUTES maxsynch_minutes is not within the allowed range for the provided subscription set and Apply qualifier, at the provided Apply control server. The Replication default value is used instead.

Explanation: The valid range for this column is 0 to 999.

User response: No action is required if the default value of 30 minutes is acceptable.

**ASN1805I** The Replication subscription set COMMIT_COUNT commitcount_value is not within the allowed range for the provided subscription set and Apply qualifier, at the provided Apply control server. The Replication default value is used instead.

Explanation: The valid range for this column is 0 to 999.

User response: No action is required if the default value of 0 minutes is acceptable.

**ASN1806E** The replication action ended in error for the Apply qualifier apply_qualifier, subscription-set name set_name, WHOS_ON_FIRST value whos_on_first, source member sourceowner.sourcetable, source view qualifier source_view_qual, target member targetowner.targettable. The subscription-set member cannot be added to the provided subscription set. Reason code reason_code.

Explanation: The subscription set would be not be valid if the member were added. No script is generated. The following values are valid for the reason code:

0 The subscription set has reached its maximum limit for members.
1 The source member for the Capture schema is not the same as the subscription set for the Capture schema.
2 The iSeries source member is not the same as the subscription set journal.
3 The condensed table member structure is incompatible with the other member structures.
4 The source member does not support change-capture replication, but the target member relies on change-capture. The target structure is either a CCD or replica table, but the source has no CD table.
5 The source member is not a complete table.
6 The target member definition expects the existence of the target table, but the target table does not exist.
7 The target member definition asks for creation of the target table, but the target table already exists.
8 The set contains only full refresh supported target tables, but the new member supports change-capture replication.
9 The set contains only target tables supported by change-capture replication, but the new member supports full refresh only.
10 Replica rule: if target member is a replica, the source member can be either a replica or a user table.
11 The target structure is not supported for this operating system.
The target structure is a CCD, which is set as a registration source (autoregistration), but the structure is not complete.

The source member is not registered.

The source member columns have column definitions, but the target type is not an aggregate.

At least one of the excluded target columns from the subscription set is neither nullable nor NOT NULL with defaults.

The target member is a view that cannot be updated.

The subscription-set member already exists.

Unable to find a target column or expression with a valid mapping to the registered source.

Multiple effective sources have been found but have not been defined consistently.

The external CCD table is noncondensed and contains either DataLink or LOB columns.

The source member journal library or journal name does not match.

The remote journal name is not valid.

A replica table with remote journaling is not allowed.

An internal CCD table already exists for the specified registered source table.

The source and target servers must be the same for internal CCD tables.

The internal CCD table must be noncomplete.

The source table is remotely journalled and contains LOBs or DATALINK columns.

No related information exists in the IBMSNAP_PRUNCNTL table.

No related information exists in the IBMSNAP_PRUNE_SET table.

An internal CCD table with a view as a source is not allowed.

The target table is already shared by another existing member, and a conflict has been detected between the replication definitions with respect to the values of the NAME, IS_KEY, EXPRESSION, and TYPE fields stored in the IBMSNAP_SUBS_COLS table and the definitions requested for the new member.

The source is on a non-DB2 server and the requested target type is a replica. This scenario is not supported.

The specified source member does not have a valid nickname at the target server. The error occurred for one of the following reasons:

- You did not provide a nickname when creating the source member.
- You provided a nickname that does not exist at the target server and one cannot be created for you.
- You provided an object that is not a nickname.
- You provided a nickname that does exist at the target server but it is not associated with the specified source member.

**User response:** For reason codes 1 through 34, either create the new member in a different subscription set or create a new subscription set for the new member.

For reason code 35, make sure that you provide a valid nickname that already exists at the target server and is associated with the source member.

---

**ASN1807I**

The replication subscription member is added to the provided subscription set and Apply qualifier, at the provided Apply control server with an informational clause. Reason code `reason_code`.

**Explanation:** This message is for your information only, and no action is required. A script is generated. The following values are valid for reason code:

0: The new set results in a mixture of replica and read-only target members.

1: The subscription set supports transaction commit counts, but the target member does not qualify for transaction processing.

2: At least one member has a target member that is a CCD table, but not all members have a target member CCD table. Different generations of tables are contained in the same set.

3: The target member is a non-condensed, non-complete CCD table, without extra columns from IBMSNAP. This target table is essentially the same as the CD table.

**User response:** Review the reason codes in the explanation, and respond with the following options:

0: Consider keeping all the replica tables in one set, and the read-only tables in another.

1: Consider keeping all the target types that support transaction processing in the same set, and other tables in another set.

2: To maintain a consistent age of data across sets, consider keeping all the CCD target tables, which are part of the same generation, in the same set. Also, consider keeping all
non-CCD target tables in a different set. The second set depends on the data being in the first set, as, for example in the middle-tier stage.

Consider whether you need the CCD target table.

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**ASN1808E** The replication action ended in error for Apply qualifier apply_qualifier, set name set_name, WHOS_ON_FIRST whos_on_first, source member sourceowner.sourcetable, source view qualifier source_view_qual, target member targetowner.targettable. The subscription target member expects its index key columns to be updated but at least one index key does not have its before-image column registered in the subscription source member.

**Explanation:** The target table allows its index keys to be updated (PRIMARY_KEY_CHG = 'Y'). To support this requirement, the Apply program needs to access the before-image columns of the index keys. So these before-image columns must exist in the Change Data table for the source member. If they do not exist, the Apply program fails. A script is not generated.

**User response:** For each column of the subscription target index:
- Check if the before-image column for that column is already registered in the source member, at the Capture server.
- If not, register the appropriate before-image column.

---

**ASN1809W** The replication action expects a subscription index key columns to be updated but the subscription member will be added to the subscription set without allowing updates to the target index key columns. Reason code reason_code.

**Explanation:** In the cases listed, the PRIMARY_KEY_CHG settings are meaningless. A script is generated that was updated with Replication definitions that override user-provided definitions. The following values are valid for reason code:

0  The target table type CCD: PRIMARY_KEY_CHG is not valid.
1  The value of the CHG_UPD_TO_DEL_INS in the IBMSNAP_REGISTER table is set to 'Y'.
2  The target table is not condensed.

---

**ASN1810W** The subscription set member is defined on the source server with DB2 referential integrity constraints, but the target member is a replica that does not preserve these constraints.

**Explanation:** Referential integrity constraints at the target table are not enforced by DB2 at the replica site. This might not be the intended behavior at the replica site. A script is generated, and the script might not be ready to execute.

**User response:** Update the generated script to include the appropriate referential constraints at the target if needed.

---

**ASN1811W** The index definition for the target subscription member cannot guarantee proper uniqueness at the target. Reason code reason_code.

**Explanation:** The Apply program relies on the unique index definition to correctly update and delete rows in the target table, for some target types. If the provided index does not guarantee uniqueness, the Apply program will have some rework. Understand your application to ensure that this will not be the case. The following values are valid for reason code:

0  At least one column is generated by an SQL function, which does not guarantee the uniqueness of the index.
1  In a unique index, nullable columns are not generated by SQL functions.

**User response:** For each column of the subscription target index:
- Check if the column type in the Apply control server ASN.IBMSNAP_SUBS_COLS, COL_TYPE, is 'F'
- If so, redefine the index column expression not to include a SQL expression, or remove that column from the index key (ASN.IBMSNAP_SUBS_COLS, IS_KEY column is set to 'N').

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**ASN1812E** The replication action ended in error for Apply qualifier apply_qualifier, set name set_name, WHOS_ON_FIRST whos_on_first, source member sourceowner.sourcetable, source view qualifier source_view_qual, target member targetowner.targettable. The subscription target member cannot be added because the required target key is not valid. Reason code reason_code.

**Explanation:** Target members that require a unique index are target types of point-in-time, user copy, and replica tables, and condensed CCDs. If these targets do
not have a unique index, the Apply program fails. A script is not generated. The following values are valid for reason code:

0  The target table does not already exist but the target key information could not be derived from the source table.

1  The target key information cannot be found nor derived, and the RRN is not defined for the CD table (iSeries only).

2  The target table or view already exists but the required target key information is missing.

3  The target table or view already exists but the target key information is incompatible with the existing partitioning key information.

4  The target table of type replica already exists. The specified column is part of the target key information but the source key information does not contain this column. The keys on both the source and the target members must match when the target table is of type replica.

5  The specified target key column is not found in the target table definition.

**User response:** Define a valid target key. Take the specific actions for the following reason codes:

0  Create the appropriate unique index on the source table so that it can be used to derive the replication suggested index.

2  Provide the required target key information.

3  Refer to the SQL reference for the DB2 rules on partitioning indexes. For example, the key that you provided might not include the required partitioning key.

4  Modify the target or the source key information appropriately so that replication can derive the correct index.

5  Verify the column name.

---

**ASN1813I** The Replication subscription source member is defined on the source server with some DB2 constraints, but the subscription target member does not preserve these constraints. Reason code reason_code.

**Explanation:** Constraints at the source table are not enforced by DB2 if they are not specified during the target member definition. This might not be the intended behavior at the replica table server. A script is generated that might not be ready to execute. Constraints are described in the following valid values for reason code:

0  At least one NOT NULL WITH DEFAULT clause in the target member.

---

**ASN1814E** The target column column_name of data type datatype cannot be added to subscription target member tableowner.tablename. Reason code reason_code.

**Explanation:** The subscription member fails the subscription column checks. A script is not generated. The following values are valid for reason code:

0  The column data type is not supported by replication. Data types that are not supported by DB2 prompt the replication programs to issue message ASN1648E.

1  The target data type is incompatible with the corresponding source data type.

2  The column is not found in the source table registration.

3  The column type is not supported for federated targets.

4  The target column is a LOB. The maximum number of LOB columns is exceeded for the target member.

5  The source column contains SQL column function, but the target member structure is neither base aggregate nor change aggregate.

6  The target table type is replica, and the source column is a LOB column.

7  The target table type is replica, and source column is DATALINK value. But the CONFLICT_LEVEL > 0.

8  A noncondensed CCD target table with LOB columns is not supported.

9  The column is not in the existing target table.

10 The target column is already defined in the subscription member definition.

11 The data-type definition of the specified column prevents either an insert or an update operation or both on the column.

12 The specified target column name does not match the mapped source column name. The target column name cannot be different from that of the source column name because the target table is a replica.

13 The target column is mapped from a before-image column in the source and the source column can contain null values; however, the target column is neither nullable nor not null with default.
The specified target column name does not match with the mapped CD column name. The target column name cannot be different from that of the CD because the target table is an internal CCD.

User response: Review the reason code in the explanation and respond as follows:

0. Change the data type to one that is supported.
1. Make sure the target data type matches the source data type.
2. Register the column of the source table.
3. Choose a valid data type that is supported for federated targets.
4. Make sure the number of LOB columns at the target member does not exceed the allowable limit.
5. Change either the source column expression or the target table structure.
6. Remove the LOB column for the replica target from the subscription member.
7. Remove the DATALINK column from the subscription member if the replica needs a conflict level greater than 0. Otherwise, change the replica conflict level.
8. Remove the LOB columns.
9. Verify the column name.
10. Verify the column name.
11. Remove the column from the subscription target member.
12. Make sure that the target column name matches the mapped column name in the source column name.
13. Modify the definition of the column in the target member to allow null or default values.
14. Make sure that the target column name matches the mapped column name in the CD table.

The replication action ended in error. The subscription set set_name for Apply qualifier apply_qual, WHOS_ON_FIRST whos_on_first is to be dropped if empty, but at least one member exists for this set. The subscription set cannot be dropped.

Explanation: The subscription set is not dropped because at least one member exists in the ASN.IBMSNAP_SUBS_MEMBR at the provided Apply control server, for the provided Apply qualifier of the particular subscription set. A script is not generated.

User response: Drop the subscription members that still exist, and then drop the subscription set. Alternatively, issue the Drop Subscription Set task, with no requirement for the subscription set to be empty.

The Replication subscription set contains at least one member that will be dropped once the subscription set is dropped.

Explanation: When a subscription set is dropped successfully, all the set members are automatically dropped also.

User response: This message is for your information only, and no action is required.

The Replication subscription member is updated with new subscription Where Clause predicates. Previous predicates already exist for the subscription member. They will be overwritten by the new predicate information.

Explanation: The specified member already contains a predicate. The new predicate overwrites the old one. A script is generated.

User response: Provide the complete predicate clause for the replication task. You might need to update the predicate clause if it does not contain all of the existing predicate clause.

The Replication subscription set is disabled successfully. Note however that disabling a subscription set has a direct impact to the Capture pruning logic of all source members for that subscription set.

Explanation: The Capture pruning logic does not prune any CD table until the dependent subscription members have been populated by the Apply program. A script is generated. It might need to be updated, if the disabling of the subscription set is not the ideal choice, and dropping the subscription set is a better option.

User response: If the subscription set is going to be disabled for a considerable amount of time that the pruning process of the CD tables will be impacted, or if the impact to the CD tables for the dependent registered sources will impact dramatically the Capture program and the Capture server CD tables, then consider dropping the subscription set and creating it again later, instead of simply disabling it. Alternatively, deactivate the appropriate registrations.
ASN1820E  The replication string for subscription set set_name, apply qualifier apply_qual, WHOSONFIRST whos_on_first contains DB2 syntax that is not valid. The string type is string_type, string text is string_text and SQL message is sql_message.

Explanation: The specified string is not a valid. A script is not generated.

User response: Please correct the appropriate object syntax and issue the replication task again.

ASN1821W  Dependent subscription sets will no longer be valid after the existing subscription set is dropped, if this subscription set contains target members that are registered sources at its target server.

Explanation: The dependent subscriptions rely on their source member tables to exist. If these source members are maintained as replication targets, and these targets are dropped, then the Apply program fails when it processes the dependent subscription sets. Dependent subscription sets might be impacted if the captureserver.IBMSNAP_PRUNCNTL table at the target server contains SOURCE_OWNER or SOURCE_TABLE rows for which these values are the target tables being dropped. A script is generated.

User response: Deactivate or drop the dependent subscription sets before running the script, if required.

ASN1822E  The replication action ended in error for Apply qualifier apply_qual, set name set_name, source member sourceowner.sourcename, target member targetowner.targetname. The provided subscription member does not exist for the provided subscription set.

Explanation: The specified member cannot be found in the ASN.IBMSNAP_SUBS_MEMBR for the provided Apply qualifier at the provided Apply control server.

User response: Make sure the Apply qualifier, set name, member name, and control server provided are correct.

ASN1823E  The subscription set set_name does not exist for the Apply qualifier apply_qual, WHOSONFIRST whos_on_first, at the Apply control server server_alias.

Explanation: The specified subscription set cannot be found in the ASN.IBMSNAP_SUBS_SET for the provided Apply qualifier at the provided Apply control server.

User response: Make sure the Apply qualifier, set name, member name, and control server provided are correct.

ASN1824W  The Replication subscription set was updated with a COMMIT_COUNT of 0.

Explanation: The source is a view of multiple tables, and the commit count is null for the set. A Commit count of 0 is enforced for the set.

User response: This message is for your information only, and no action is required.

ASN1825W  The replication action to drop a member did not drop the view.

Explanation: Even though the request was made to drop the view the action was not completed as requested.

User response: You need to manually drop the view.

ASN1826W  The Capture schema capture_schema does not exist at the provided source server.

Explanation: Please make sure the Capture schema exists before adding any members to the subscription set.

User response: Create the Capture server control tables at the source server with the Capture schema specified.

ASN1827W  The column target_columnname of the target member target_member does not preserve a DB2 column attribute of the corresponding column source_columnname of the source member source_member. Reason code reason_code.

Explanation: A DB2 column attribute of the source column differs from the corresponding target column. The following values are valid for reason code:

1  The source column is nullable and the target column is not nullable.
2  The source column is not nullable and the target column is nullable.
3  The source column has a default value and the target column has none.
4  The target column has a default value and the source column has none.

User response: If the reason code is 1, then check whether there are null values in the source column that will be applied to the target column. If necessary, change the target column to NULLABLE. Alternatively, update the generated script to include the appropriate DB2 attributes at the target, if needed.
The replication action ended in error for Apply qualifier apply_qual, set name set_name, source member sourceowner.sourcename, target member targetowner.targetname. When the subscription target server is a non-IBM target server, either the action is not supported or is supported with restrictions. Reason Code is reason_code.

Explanation: These are current restrictions. No script is generated. The following values are valid for reason code:

0  Not supported.
1  Supported for the following target table structures: point-in-time, CCD, user copy.

User response: This message is for your information only, and no action is required.

A valid nickname nicknameowner.nickname is found for the subscription target table. Data type mapping rules for columns are enforced. The nickname is used as is.

Explanation: An existing target nickname was found in the federated database that is valid for this subscription (the data type mapping checks for columns are valid). However, there is no check to validate the existence of the target table on the non-DB2 relational database server.

User response: Make sure that the remote table exists for the provided nickname. Otherwise, the Apply program fails.

The replication action ended in error for the Apply qualifier apply_qualifier, subscription set set_name, whos on first value of whos_on_first, source member sourceowner.sourceobject, source view qualifier source_view_qual, target member targetowner.targettable, and predicate of predicate. The subscription-set member cannot be added to this subscription set. The reason code is reason_code.

Explanation: The subscription-set member is invalid, and no script is generated. A possible reason code is:

0  The predicate references columns from non-existing CD or UOW tables.

User response: Verify the accuracy of the specified predicate, and refer to the documentation on advanced change predicate features.

The replication action ended in error. No subscription statements exist for the subscription set set_name for the Apply qualifier apply_qual, with a whos on first value of whos_on_first, at the Apply control server control_server.

Explanation: No subscription statements exist for the specified subscription-set name with this Apply qualifier.

User response: Verify that the specified subscription-set name under this Apply qualifier contains subscription-set statements.

A column named column_name already exists in the ASN.IBMSNAP_SUBS_COLS control table.

Explanation: The specified column already exists in the ASN.IBMSNAP_SUBS_COLS table.

User response: No action is required.

The CCSID Unicode_ASCII_EBCDIC of the change data (CD) table cdowner.cdname for the source table sourceowner.sourcetable does not match the CCSID Unicode_ASCII_EBCDIC of the IBMSNAP_UOW table for the capture schema capture_schema. The provided subscription member definition would require a join of these two tables.

Explanation: For the given capture schema, the Apply program will join the IBMSNAP_UOW table and the CD table of the given source if either the target type of the associated subscription-set member is not user copy, or if any columns of the IBMSNAP_UOW table are used in the WHERE clause of the subscription-set member. If the Apply program processes such a subscription-set member defined with the given source table and capture schema by joining the CD table of the source table with the IBMSNAP_UOW table, an error will occur because of the different encoding schemes of the tables. For more information about encoding schemes, see "UNICODE and ASCII encoding schemes" in the IBM Information Management Software for z/OS Solutions Information Center or DB2 Information Center.

User response: Take one of the following actions:

- Select a target type of user copy and do not use columns of the IBMSNAP_UOW table in the WHERE clause of the subscription member.
- Register the source using a different capture schema and create the CD table in a table space with the same encoding scheme as those of the IBMSNAP_UOW table of the new capture schema.
ASN1834W  The default target capture schema of 'ASN' will be used for the subscription set.

**Explanation:** The subscription set requires a target Capture schema, and the default value of 'ASN' is used.

**User response:** No action is required if the default is appropriate for the target Capture Schema column in this subscription set.

ASN1835W  The target column column_name of data type datatype has been added to the subscription-set member target tableowner.tablename and source sourceowner.sourcename, but the corresponding source column column_name of data type datatype can contain data that is not applicable to the target column. Reason code reason_code.

**Explanation:** The source column definition does not exactly match with the target column definition. Therefore, if the data that is selected from the source by the Apply program is not appropriate for the target column, the Apply program might fail or might modify the source data (by truncating it). Note: If your application does not generate data that will make the Apply program fail, there is no problem with the definition mismatch.

The following values are valid for the reason code:

1
   The target column length is less than the resolved source column expression.
2
   The target column scale is less than the resolved source column expression.
3
   The target column precision is less than the resolved source column expression.
4
   The target and source column data types are compatible only for certain source values.

**User response:** If possible, change the definitions at the target site to be compatible with the source definitions. (This is usually driven by the applications that run at the target site.)

If you must keep the definition mismatch (because you have a specific reason why the target definitions must be different than the source definitions), review your applications to ensure that the definition mismatch will not cause a run-time problem.

ASN1836W  The target table owner.name will not be dropped because it is registered as a source under the Capture schema schemaname.

**Explanation:** The target table is registered as a source under the specified Capture schema. If the table is dropped, the registration will no longer be valid.

**User response:** Drop the registration for the table, and then drop the table.

ASN1837W  The DB2 target tableowner.tablename is not dropped.

**Explanation:** The target table is a replica or an external consistent-change data (CCD) table (CCD). The table is also registered at the target server so it may be the source for dependent targets. The table cannot be dropped automatically.

**User response:** Drop the registered source for the replica or external CCD table. Then, manually drop the DB2 target table or delete the replica or external CCD subscription member. The deletion of the member will drop the DB2 target table.

ASN1838E  The replication action action_name ended in error. The OS/400 table tableowner.tablename cannot be used as a replica target subscription member. The reason code is reason_code.

**Explanation:** The following values are valid for the reason code:

0
   The specified target table name does not exist or its schema is not created using either the "Create Collection" or "Create Schema" command; therefore, the specified table is not journaled. The journal information of the target table is required when registering the target table in the 'F' direction subscription set for the replica. The table needs to be created on an OS/400 system.

1
   The specified target table exists but there is no journaling information for the table. The journal information of the target table is required at the time of registering the target table in the 'F' direction set for the replica.

**User response:** The action you must take depends on the reason code:

0
   If the table target table does not exist: Create the target table, journal it with both before-images and after-images, then reissue the task. If the target table exists: Journal the table with both before-images and after-images, then reissue the task.
Journal the specified target table with both before-images and after-images, then reissue the task.

**ASN1839I** The base table `tableowner.tablename` of the source view `viewowner.viewname` has been chosen to be updated by the replica target.

**Explanation:** The source member is of type view in this replica scenario. Views cannot be updated; therefore, the registered base table of the view that has the largest number of columns will be used as the target member in the 'F' direction.

**User response:** Verify that your scenario is still valid.

**ASN1840W** The target database is on an OS/400 system.

**Explanation:** The target database is on an OS/400 system and the target table space definition will be ignored.

**User response:** This message is for your information only, and no action is required.

**ASN1841E** The expression `expression_name` specified in the target column `colname` for the subscription target member `targetowner.targetname` failed. The checks performed against the respective subscription source member `sourceowner.sourcename` returned an SQL error (`sqlcode = sqlcode, sqlstate = sqlstate`).

**Explanation:** A series of checks are performed on the given expression value for the target member against the source member to ensure data integrity rules. The specified expression failed in one or more of the checks performed.

**User response:** Refer to the SQL message returned and the SQL reference for any additional information.

**ASN1842W** The internal CCD table `ccdowner.ccdname` has fewer number of columns than the CD table `cdowner.cdtable` of the source object `sourceowner.sourcename`. For this source, existing members that were defined before the internal CCD was defined might become invalid.

**Explanation:** The internal CCD table takes precedence over the CD table when Apply tries to apply the changes to the target. An internal CCD is created for the specified source, which already has a CD table and subscription members defined. Some of the columns in the CD table do not exist in the internal CCD table and those members that were defined before the CCD table was created will become invalid.

**User response:** Make sure that your scenario is valid.

**ASN1843E** The replication action `action_name` ended in error for Apply qualifier `apply_qualifier` set name `set_name`, WHOS_ON_FIRST `whos_on_first`, source member `source_owner.source_table`, source view qualifier `source_view_qualifier`, and target member `targetowner.targetname`.

**Explanation:** For OS/400 only. Duplicate rows are not allowed in the IBMSNAP_REG_EXT table for each combination of source_owner, source_table, and source_view_qualifier.

**User response:** Delete the row from the IBMSNAP_REG_EXT table that does not belong and reissue the task.

**ASN1844E** The replication action `action_name` ended in error for Apply qualifier `apply_qualifier` set name `set_name`, WHOS_ON_FIRST `whos_on_first`, source member `source_owner.source_table`, source view qualifier `source_view_qualifier`, and target member `targetowner.targetname`. The specified source table and the source table registration reside on different servers.

**Explanation:** The source table and the source table registration can reside on different servers only if both the source database and the Capture database are located on iSeries machines. At least one of the servers is not on an iSeries system.

**User response:** Make sure the source table and the source table registration reside on the same server before reissuing the task.

**ASN1845E** The replication action ended in error. The table name length of the target member `targetowner.targetname` exceeds the allowed limit of `max_limit` imposed by the z/OS replication control tables on the server `server`.

**Explanation:** The z/OS replication control tables are created with the maximum length of the table name as 30 characters. The error message was received because either the Capture control server or the Apply control server or both are on a z/OS system, and the specified target table name length is greater than 30. The subscription set member cannot be created.

**User response:** Ensure that the table name length of the target member is not longer than 30 characters. In some cases the source database restrictions limit the capabilities at the target, because the target table name must be stored at the Capture control server and at the Apply control server. In such cases, you can create a...
view of the target table using a name that is less than or equal to 30 characters, and define the subscription set member using the target view name.

### ASN1846E
The set contains one or more invalid members. The original error message was original_message.

**Explanation:** An error has occurred while promoting the given set because the set has one or more invalid members.

**User response:** Verify the information that you are inputting is correct, and reissue the task.

### ASN1847E
The view viewowner.viewname contains an unsupported definition.

**Explanation:** You are unable to map a view column to the corresponding base table column because the view definition is unsupported.

**User response:** Verify that the view definition is correct, and reissue the task.

### ASN1848W
The index or constraint index_constraint_name could not be created on targetowner:targetname of type object_name. The view definition did not provide a column mapping for all key columns.

**Explanation:** The target object is a view. A target key will be created on the view. The unique index supporting this target key could not be created on the base table of the view because the view columns used for the target key could not be mapped to the base table columns.

**User response:** Create the index on the base table manually.

### ASN1849E
The replication subscription set set_name cannot be promoted for the specified Apply qualifier at the specified Apply control server. The reason code is reason_code.

**Explanation:** The following value is valid for the reason code:

<table>
<thead>
<tr>
<th>Reason Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Either the Capture server or the target server is a federated database. Promote subscription works only for subscription sets on two DB2 systems.</td>
</tr>
</tbody>
</table>

**User response:** This is a current restriction, and no action is required.

### ASN1850W
The value of the column column_name of data type decimal will be truncated when it is mapped to a column with data type of integer.

**Explanation:** The specified column can contain rational digits, but it is mapped to an integer column. Some of the digits in the original data might be truncated.

**User response:** This message is for your information only, and no action required.

### ASN1851E
The DB2 object object_name of type type cannot be added to the table tableowner:tablename because a conflict exists between the new properties and the partitioning key of that table.

**Explanation:** The specified object cannot be added to the table definition because the new definitions and the existing table properties cannot coexist according to the DB2 rules for the coexistence of table constraints for partitioned tables.

**User response:** See the SQL Reference for further details on table constraints.

### ASN1852E
The DB2 object object_name of type type cannot be added to the table tableowner:tablename because a conflict exists between the new properties and the existing partitioning key partitioning_key.

**Explanation:** The specified object cannot be added to the table definition because the new definitions and the existing table properties for the partitioning key cannot coexist according to the DB2 rules for the coexistence of table constraints for partitioned tables.

**User response:** See the SQL Reference for further details on table constraints.

### ASN1853E
The DB2 table tableowner:tablename definitions conflict with the index indexowner:indexname and the partitioning keys of the table.

**Explanation:** The specified index definition and the partitioning keys have conflicting definitions and cannot co-exist according to the DB2 rules for the coexistence of index properties and partitioning keys for partitioned tables.

**User response:** See the SQL Reference for further details on table constraints.
ASN1854E  The definition of the table tableowner.tablename is not complete on a z/OS platform. The reason code is reason_code.

Explanation: The following value is valid for the reason code:
0  The table definition is missing the required properties such as unique indexes supporting a ROWID, a primary key, and unique constraints, or LOB column properties such as a ROWID, LOB table spaces, auxiliary tables, and auxiliary indexes. At least one of these mentioned needs to be present in the table definition to make it complete.

User response: Redefine the table definition to include the required table properties.

ASN1855E  The after-image column column_name used for the target key change was not found in the replica table tableowner.tablename.

Explanation: You selected the target key change option for the key column during subscription. The corresponding after-image column was not found in the replica source table.

User response: Make sure that the original after-image column is available for subscription in the replica source.

ASN1856E  The replication action action_name ended in error. The check for the OS/400 collection name collection_name failed.

Explanation: The specified OS/400 collection is not valid. The script will not be generated.

User response: Refer to the iSeries Console Log for more details on error information.

ASN1857E  The replication action action_name ended in error. The source table sourceowner.source_name has an internal CCD table that is defined as condensed, and the target targetowner.target_name is being requested as a non-condensed target.

Explanation: The definitions stored in the replication control tables indicate that the source member already exists in another subscription set with an internal CCD defined as condensed. The same source member is being added as a source in another subscription set, but the target member is non-condensed. The data at the source side is already condensed and cannot be copied to a non-condensed target. The script will not be generated.

ASN1858E  The table type type for table tableowner.tablename is not supported for this DB2 platform.

Explanation: The specified type of the table or view is not supported for the DB2 platform. You can include only certain types of tables as sources or targets in a subscription, depending on the DB2 platform.

User response: For more information about platform-specific support for replicated tables, see "Registering DB2 tables as sources" and "Subscribing to sources for SQL Replication" in the DB2 Information Center.

ASN1859E  The replication action action_name ended in error for Apply qualifier apply_qualifier, set name set_name, WHOIS_ON_FIRST whois_on_first, source member source_owner.source_table, source_view_qualifier source_view_qualifier, target member targetowner.target_name. The crossloader option is being used for this member, but the values for the nickname owner and the nickname table are missing.

Explanation: The value for the LOADX_TYPE column in the IBMSNAP_SUBS_MEMBR table is 3 for the specified member. This value indicates that the crossloader will be used for this member. A nickname for the source table must be created at the target server and specified in the LOAD_SRC_N_OWNER and LOAD_SRC_N_TABLE columns. One or both of these values are missing.

User response: Provide a value for either the LOAD_SRC_N_OWNER field or the LOAD_SRC_N_TABLE field, and reissue the task.

ASN1860W  The target member targetowner.target_name does not exist, and a script to drop the member will not be generated.

Explanation: The target table, view or nickname does not exist on the target database and it will not be dropped.

User response: This message is for your information only, and no action is required.

ASN1861E  The subscription set member cannot be created for target targetowner.target_name because the target is already a member of the set, and the existing member definition conflicts with the requested definition.

Explanation: The columns in the
IBMSNAP_SUBS_COLS control table already contain values for NAME, IS_KEY, EXPRESSION, and TYPE and those values differ from the ones requested for the new member. A script for creating the new member is not generated.

User response: To create the new subscription set member, use the same target properties as those that are stored in the IBMSNAP_SUBS_COLS table.

**Explanation:**

The specified source member does not have a valid nickname at the target server. The error occurred for one of the following reasons:

- You did not provide a nickname when creating the source member.
- You provided a nickname that does not exist at the target server and one cannot be created for you.
- You provided an object that is not a nickname.
- You provided a nickname that does exist at the target server but it is not associated with the specified source member.

User response: Make sure that you provide a valid nickname that already exists at the target server and is associated with the source member.

**Explanation:**

The Capture server is on a Version 8 new-function mode DB2 subsystem and the Apply control server or the Capture control server is on a workstation or an earlier version of DB2 for z/OS. The maximum length allowed for a schema name on a Version 8 new-function mode DB2 subsystem is much longer than the length allowed on the control server.

User response: Redefine your setup to use a Version 8 new-function mode DB2 subsystem as either the Apply control server or the Capture control server.

**Explanation:**

The target server is on a Version 8 new-function mode DB2 subsystem and either the Apply control server or the Capture control server is on a workstation or an earlier version of DB2 for z/OS. The maximum length allowed for a schema name on a Version 8 new-function mode DB2 subsystem is much longer than the length allowed on the control server.

User response: Redefine your setup to use a Version 8 new-function mode DB2 subsystem as either the Apply control server or the Capture control server.

**Explanation:**

The specified Capture control server is on a Version 8 new-function mode DB2 subsystem and the architecture level value obtained from the capture_schema.IBMSNAP_REGISTER table must be 0805. The architecture level obtained from the table is not 0805. You are running replication in Version 8 new-function mode; however, you did not migrate your control tables to support the new architecture level. No script is generated.

User response: Run the migration program AASNSAMP member(ASNM2V8) to alter the replication control table definitions. This migration program sets the architecture level to 0805 and alters some of the columns of the control tables to a longer length.

**Explanation:**

The specified Apply control server is on a Version 8 new-function mode DB2 subsystem and the architecture level obtained from the ASN.IBMSNAP_SUBS_SET table does not support Version 8 new-function mode DB2 subsystems. No script is generated.

User response: Migrate the Apply control tables to the latest architecture level and then retry the action.
ASN1867E The replication action ended in error for the Apply qualifier apply_qualifier, subscription-set name set_name, WHOS_ON_FIRST value whos_on_first, source member sourceowner.sourceetable, source view qualifier source_view_qual, target member target_owner.target_table. The subscription-set member cannot be added to the provided subscription set without first migrating subscription sets to the current architecture level. Reason code reason_code.

Explanation: The subscription set would not be valid if the member were added. No script is generated. The following values are valid for the reason code:

0 There are existing registrations in the schema.IBMSNAP_REGISTER table for Oracle sources that pertain to an earlier architecture level. You cannot add a new member to this set until you migrate all registrations to the new architecture level.

1 There are existing subscription-set members in the ASN.IBMSNAP_SUBS_SETS table for Oracle sources that pertain to an earlier architecture level. You cannot subscribe to a new source until you migrate all subscription-set members to the new architecture level.

User response: Migrate your existing registrations for non-DB2 relational sources to the current architecture level. For details, refer to Migrating to SQL Replication Version 8.

ASN1900E The table or view objectowner.objectname cannot be promoted to the new server. Reason code reason_code.

Explanation: The following values are valid for reason code:

0 The table or view is not a registered source.
1 The table is a replica table.
2 The registered source is on DB2 for iSeries but has a remote journal.
3 The table or view has already been promoted.
4 A view on a view is not supported by the replication promote registration function.

User response: Review the reason code in the explanation, and respond as follows:

0 The table or view name that you specified in the IBMSNAPREGISTER table contained no entries for the specified Capture schema. The table or view registration cannot be promoted for this particular Capture schema.

1 The table you specified is of type replica (with a SOURCE_STRUCTURE column value of 7) in the captureschema.IBMSNAP_REGISTER table. The table cannot be promoted as a registered source. A replica can be promoted only within the context of a subscription set to ensure that proper definitions are maintained between the source user table and the replica target.

2 The registered source is maintained on DB2 for iSeries with a remote journal, which can be promoted only with SQL script.

ASN1902W Make sure that the schemas exist on the promoted Capture server before running the script. The Replication definitions will be incomplete if the object does not exist at the promoted Capture server.

Explanation: The promote tasks allows you to provide a new Capture server and new Capture server schemas. However, the promote tasks do not connect to the new Capture server to verify the names and existence of the Capture server and schemas. You must verify this information before running the script to ensure that the script executes successfully.

User response: To generate the required objects, run the appropriate SQL prior to running the script.
The object objectowner.objectname does not exist on the promoted Apply control server, yet some promoted objects depend on its existence. Failure to create this object will result in incomplete Replication definitions at promoted Apply control server. Reason code reason_code.

**Explanation:** Since the promote tasks allow you to provide a new Apply control server name, the tasks detect whether some required objects exist to ensure proper execution of the generated script. A script is generated, but is not ready to run. The following values are valid for reason code:

<table>
<thead>
<tr>
<th>Reason Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>The Apply control server control tables do not exist.</td>
</tr>
<tr>
<td>1</td>
<td>The registration information for all source members of a promoted set.</td>
</tr>
</tbody>
</table>

**User response:** To generate the required objects, run the appropriate SQL prior to running the script.

---

The Replication subscription member is promoted successfully for the provided Apply qualifier, at the provided Apply control server. Reason code reason_code.

**Explanation:** This message is for your information only; no action is required. A script is generated that might need some updates before being executed. The following values are valid for reason code:

<table>
<thead>
<tr>
<th>Reason Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>The source member structure is incompatible with the target member structure.</td>
</tr>
<tr>
<td>1</td>
<td>The target member is a replica (replica1) that is also the source member of another replica (replica2.) The RECAPTURE value for the registration row of replica2 does not allow updates from the user table to be replicated at replica2.</td>
</tr>
<tr>
<td>2</td>
<td>The source member is a user table that is also the source member of more than one replica (replica1 and replica2). The RECAPTURE value for the registration row of the user table does not allow updates at replica1 to be replicated at replica2, and vice-versa.</td>
</tr>
</tbody>
</table>

**User response:** Review the reason code in the explanation, and respond as follows:

- **0:** Check the ASN.IBMSNAP_SUBS_MEMBR table, TARGET_STRUCTURE column. The value in the column should be compatible with the corresponding source member captureschema.IBMSNAP_REGISTER table, SOURCE_STRUCTURE column.
- **1, 2:** Update the values, if needed.

---

The Capture server alias and the Capture schema name on both the host system and new system are the same. The generated replication definitions cannot work if run on the host system.

**Explanation:** The promote task detected that the Capture server alias and the Capture schema name are the same on both the host and new system. The generated SQL script must be modified, or it will fail when executed.

**User response:** Take one of the following actions: 1) Run the same task with different Capture server alias and Capture schema name values for the host or new system. 2) Or, change the Capture server alias or Capture schema name in the generated script.

---

An unexpected token token_name was found. Valid tokens include list_of_tokens.

**Explanation:** The command was entered with incorrect syntax.

**User response:** Check the documentation to verify your command syntax.

---

The command was entered with profile profile_name that is not valid.

**Explanation:** A profile must exist before it can be used in a command.

**User response:** Issue the corresponding SET PROFILE command, and then re-enter the command that failed.

---

The program encountered an internal error.

**Explanation:** The Replication command line processor encountered an unrecoverable error condition.

**User response:** Obtain the log file with the error, and contact IBM Software Support.

---

Command completed.

**Explanation:** All commands of this ASNCLP session completed successfully. Please note that some individual commands in this session may have produced errors, warnings, or informational messages.

**User response:** Check the ASNCLP log file for any errors, warnings, or informational messages produced by the commands in this session.
Explanation: At least one command in the ASNCLP session failed, and processing stopped.
User response: Look in the ASNCLP log file to diagnosis the error. Then fix the error, and try the command again.

ASN1955I  ASNCLP : The program will use the following files: capture_script_file_name for the Capture SQL script, control_script_file_name for the control SQL script, target_script_file_name for the target SQL script, and log_file_name for the log file.
Explanation: The ASNCLP session generated information in the specified files.
User response: This message is for your information only, and no action is required.

ASN1956I  ASNCLP : The program now generates the script for action: action_name.
Explanation: All input for this command has been successfully parsed, and the command that generates the script is now invoked.
User response: This message is for your information only, and no action is required.

ASN1957E  ASNCLP : The value value for the input parameter input_parameter is incorrect. The reason code is reason_code.
Explanation: The value of the input parameter is incorrect. The following values are valid reason codes:
1
   The input parameter is a character value but should be a numeric value.
2
   The input parameter is a numeric value but should be a character value.
3
   The command line processor cannot access the specified file.
4
   The date must be in the format yyyy-mm-dd and the time must be in the format hh:mm:ss.ffffff. All components of date and time are mandatory except for the fraction part of time, denoted by fffffff. The hyphens and colons are also mandatory.
5

ASN1976E  pgmname : program_qualifier. The specified database alias db_alias_name already exists in the password file password_file_name.
Explanation: The key that you specified already exists in the password file.
User response: Enter this command again using the MODIFY parameter instead of the ADD parameter.

ASN1977E  pgmname : program_qualifier. The value of the input parameter parameter_name is missing.
Explanation: The indicated input parameter must be specified.
User response: Invoke the utility again using a valid input parameter value.

ASN1978E  pgmname : program_qualifier. The value of the input parameter parameter_name is too long.
Explanation: The asnpwd command supports a maximum of eight characters for the length of the database alias and a maximum of 128 characters for the length of both the user ID and the password. The specific lengths of the user ID and the password are dependent upon the operating system that you are using.
User response: Invoke the API using an input parameter with a valid length.

ASN1979E  pgmname : program_qualifier. The program encountered an unexpected token token_name. Expected tokens include list_of_tokens.
Explanation: The command was entered with incorrect syntax.
User response: Check the documentation to verify your command syntax.

ASN1980E  pgmname : program_qualifier. The program did not complete successfully because reason.
Explanation: The asnpwd command encountered system problems as indicated in the message.
User response: Take action based on the information
in the message. Enter the command again after fixing the error.

ASN1981I  

**ASN1981I**  

**program_qualifier**. The program completed successfully using password file password_file_name.

**Explanation:** The asnpwd command completed successfully.

**User response:** This message is for your information only, and no action is required.

ASN1982E  

**ASN1982E**  

**program_qualifier**. The specified database alias db_alias_name does not exist in the password file password_file_name.

**Explanation:** The key that you specified with the MODIFY or DELETE parameter does not exist in the password file.

**User response:** Enter the command again using the ADD parameter.

ASN1983E  

**ASN1983E**  

**program_qualifier**. The program cannot find the password file password_file_name.

**Explanation:** No password file was found.

**User response:** Verify that the password file exists in the specified path. If you are using the Password Management utility for the first time, use the INIT parameter.

ASN1984E  

**ASN1984E**  

**program_qualifier**. The program cannot be initialized because the password file password_file_name already exists.

**Explanation:** The password file already exists in the specified path.

**User response:** Verify that the password file has been deleted. Then retry the command.

ASN1985E  

**ASN1985E**  

**program_qualifier**. The program encountered an internal error when using the password file password_file_name.

**Explanation:** The operating system produced an unexpected error when trying to access the password file. No information about this error is available. However, this error might have occurred if the password file was manually edited causing the format of the file to change.

**User response:** Retry the command. If the problem persists, use the INIT parameter to create a new password file.

ASN1986E  

**ASN1986E**  

**program_qualifier**. The password file file_name contains encrypted information that cannot be listed.

**Explanation:** Password files created using Encrypt All contain only encrypted data (alias, user ID, and password). Encrypted data cannot be listed. Data can be listed only from password files created using the Encrypt Password parameter.

**User response:** If you want to use the List option you must maintain a password file in which only the password is encrypted. You must delete the old password file using the asnpwd delete command and create a new password file using the asnpwd init encrypt password command.

ASN1987E  

**ASN1987E**  

**program_name** : **program_identifier** : The option_name option that was specified for the ASNPWD command is not supported on this operating system.

**Explanation:** On 64-bit Windows operating systems, the ADD, MODIFY, DELETE, and LIST options of the ASNPWD command are not supported for password files that were created using the ASNPWD command before Version 9.5 Fix Pack 2. The ASNPWD command began using a new encryption method starting with this fix pack.

**User response:** Take one of the following actions:

- Create a new password file using the ASNPWD INIT option. If you use this method, the password file can only be decrypted and read by replication programs that are at or newer than Version 9.5 Fix Pack 2. Do not use this method if an older replication program needs to read the password file.
- Use a different operating system to change the password file by running the ASNPWD command with the ADD, MODIFY, DELETE, or LIST options.

ASN1988E  

**ASN1988E**  

**program_name** : **program_identifier** : The password file name contains encrypted information that cannot be read, listed, or updated.

**Explanation:** Replication programs can read only password files that were created using the Advanced Encryption Standard (AES) algorithm. This algorithm is used by the asnpwd command when it creates encrypted password files.

**User response:** Create a new password file by using the asnpwd command and the INIT ENCRYPT option, for example:

asnpwd INIT ENCRYPT PASSWORD USING mypwd.aut.

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ASN2000I  The action action_name started at time_stamp. The Q Capture server is capture_server, and the Q Capture schema is capture_schema.

Explanation: This message is for your information only.
User response: This message is for your information only. No action is required.

ASN2001I  The action action_name started at time_stamp. The Q Apply server is apply_server, and the Q Apply schema is apply_schema.

Explanation: See message text.
User response: This message is for your information only. No action is required.

ASN2002I  The action action_name started at time_stamp. The publication name is pub_name, the Q Capture server is capture_server, the Q Capture schema is capture_schema, and the source table, view, or nickname is table_name.

Explanation: See message text.
User response: This message is for your information only. No action is required.

ASN2003I  The action action_name started at time_stamp. Q subscription name: name. Q Capture server: capture_server. Q Capture schema: capture_schema. Q Apply server: apply_server. Q Apply schema: apply_schema. The source table is table_name. The target table or stored procedure is table_name.

Explanation: See message text.
User response: This message is for your information only. No action is required.

ASN2004I  The action action_name started at time_stamp. The publishing queue map name is queue_map_name, the Q Capture server is capture_server, and the Q Capture schema is capture_schema.

Explanation: See message text.
User response: This message is for your information only. No action is required.

ASN2005I  The action action_name started at time_stamp. The replication queue map name is queue_map_name, the Q Capture server is capture_server, the Q Capture schema is capture_schema, the Q Apply server is apply_server, and the Q Apply schema is apply_schema.

Explanation: See message text.
User response: This message is for your information only. No action is required.

ASN2006I  The action action_name ended successfully at time_stamp for the Q Capture server capture_server and Q Capture schema capture_schema.

Explanation: See message text.
User response: This message is for your information only. No action is required.

ASN2007I  The action action_name ended successfully at time_stamp for the Q Apply server apply_server and Q Apply schema apply_schema.

Explanation: See message text.
User response: This message is for your information only. No action is required.

ASN2008I  The action action_name ended successfully at time_stamp for the publication name pub_name, Q Capture server capture_server, Q Capture schema capture_schema, and source table, view, or nickname table_name.

Explanation: See message text.
User response: This message is for your information only. No action is required.

ASN2009I  The action action_name ended successfully at time_stamp for the Q subscription name name. The Q Capture server is capture_server, the Q Capture schema is capture_schema, the Q Apply server is apply_server, the Q Apply schema is apply_schema, the source table is table_name, the target table or stored procedure is table_name.

Explanation: See message text.
User response: This message is for your information only. No action is required.
User response: This message is for your information only. No action is required.

The action action_name ended successfully at time_stamp for the publishing queue map name queue_map_name, Q Capture server capture_server, and Q Capture schema capture_schema.

Explanation: See message text.

User response: This message is for your information only. No action is required.

The action action_name ended successfully at time_stamp for the replication queue map name queue_map_name, the Q Capture server is capture_server and the Q Capture schema is capture_schema. The Q Apply Server is apply_server and the Q Apply schema is apply_schema.

Explanation: See message text.

User response: This message is for your information only. No action is required.

The value is missing for the input parameter input_parameter.

Explanation: The value for the input parameter is mandatory but it is missing. A script is not generated.

User response: Provide a value for the mandatory parameter and rerun the action.

The value value for input parameter input_parameter is incorrect. Reason code: reason_code.

Explanation: The value provided for the input parameter is not a valid value. The following values are valid for the reason code:

0
   In this context, the SUBTYPE column value must be 'U' or 'B'.

1
   The SLEEP_INTERVAL column value must be greater than 0 and less than 2147483647.

2
   The ALL_CHANGED_ROWS column value must be 'Y' or 'N'.

3
   The BEFORE_VALUES column value must be 'Y' or 'N'.

4
   The CHANGED_COLS_ONLY column value must be 'Y' or 'N'.

5
   The HAS_LOADPHASE column value must be 'N' or 'E' for publications.

6
   The HAS_LOADPHASE column value must be 'N', 'I', or 'E' for Q Subscription.

7
   The SUPPRESS_DELETES column value must be 'Y' or 'N'.

8
   The MESSAGE_FORMAT column value must be 'X' for publishing queue maps.

9
   The MESSAGE_FORMAT column value must be 'C' for replication queue maps.

10
   The MSG_CONTENT_TYPE column value must be 'T' or 'R' for publishing queue maps.

11
   The MSG_CONTENT_TYPE column value must be 'T' for replication queue maps.

12
   In the IBMQREP_SENDQUEUES table, the ERROR_ACTION value must be 'I' or 'S' for publishing queue maps or replication queue maps.

13
   The ERROR_ACTION column value for Q subscriptions must be 'I', 'S', 'Q', or 'D'.

14
   The CONFLICT_ACTION column value must be 'F', 'I', 'D', 'S', or 'Q' for Q subscriptions.

15
   The LOADTYPE parameter must be '0', '1', '2', '3', '4', or '5' for Q subscriptions.

16
   The LOADTYPE parameter must be '0', '1', '2', '3', '4', or '5'.

17
   The SOURCENODE parameter must be greater than zero.

18
   The TARGETNODE parameter must be greater than zero.
The NUM_APPLY_AGENTS parameter must be greater than 0 and less than 100.

The MEMORY_LIMIT parameter must be greater than 0 and less than 100.

The MSG_FORMAT column value for Q subscriptions must be 'C'.

The valid values for the STATE parameter is 'A' only.

The TARGET_TYPE parameter must be 'I' (user table) or 'S' (stored procedure).

The SUBNAME parameter cannot contain the semicolon character (;).

The SENDQ or RECVQ column value cannot contain special characters or blanks.

The MONITOR_INTERVAL column value must be greater than 0 and less than 2147483647.

The MONITOR_LIMIT column value must be greater than 0 and less than or equal to 10080.

The TRACE_LIMIT column value must be greater than 0 and less than 2147483647.

The length of the DBSPACE name is longer than 18 characters.

The number of pages specified cannot be less than 0.

The number of header pages cannot be less than 1 or greater than 8.

The COMMIT_INTERVAL column value must be greater than 100 and less than 600000.

The SIGNAL_LIMIT column value must be greater than 0 and less than 2147483647.

The specified option for the lock size is not valid.

The specified value for percent index, percent free space for data pages, or percent free space for index pages cannot be less than 0 or greater than 99.

The value for the DBSPACE name is not valid.

The parameter loadphase must be 'N' for all target objects that are not tables.

The number of pages specified cannot be less than 0.

The number of header pages cannot be less than 1 or greater than 8.

The value for the input parameter PARALLEL_SENDQS cannot be greater than 4.

User response: Provide a valid value for the input parameter, and rerun the action. See the Q Replication documentation in the IBM Information Management Software for z/OS Solutions Information Center or DB2 Information Center for details.
ASN2020E The value of the input parameter input_parameter is too long. The length of the value value exceeds the maximum allowed limit maximum_limit.

Explanation: See message text.

User response: Specify a valid value for the input parameter. See the documentation in the IBM Information Management Software for z/OS Solutions Information Center or DB2 Information Center for more information about the valid values for each parameter.

ASN2055I The replication control table table_name was not found and was not dropped.

Explanation: The ‘Drop Q Capture control tables’ or ‘Drop Q Apply control tables’ action was issued and the control table was missing. The script will not generate the appropriate DROP statement for that control table.

User response: This message is for your information only. No action is required.
At least one row was found in the control table `table_name`. If you choose to drop this control table, any replication definitions stored in the table will also be dropped.

**Explanation:** A script was generated to drop the specified control table, but that table is not empty. If you run the script, replication control information that is in the table will be deleted and your existing publications or Q subscriptions will be affected.

**User response:** Determine what would happen to your publications or Q subscriptions if you dropped the control table. Run the generated script only if the result is acceptable to you.

The table space `tablespace_name` already exists at the given server. The control tables will be created in this table space.

**Explanation:** The control tables are created in recommended table spaces by default if you do not override the default and specify other table spaces. In this situation, the recommended table space already exists, so the control tables will be created in an existing table space.

**User response:** Modify the script to specify a different table space if you do not want to create the tables in the existing table space. No action is required if you want the control tables to be created in the existing table spaces.

The Q Capture control table `table_name` was not created in table space `tablespace_name` in database `logicaldb_name` because the locksize is `locksize`. This control table must be created in table space with locksize `expected_locksize`.

**Explanation:** On the z/OS platform, some control tables require a table space with row locksize, while others require a table space with page locksize. The table space selected for the control table does not have the appropriate locksize.

**User response:** Issue the ‘Create the Q Apply control tables’ again using table spaces with the appropriate locksize.

The object `object_name` of type `object_type` exists at the specified server and under the specified Q Capture schema.

**Explanation:** Duplicate values for the specified type are not allowed in the control tables for the same Q Capture schema. No script is generated.

**User response:** Provide a different name for the object that is unique for the Q Capture schema, and rerun the action.

The send queue object `sendqueue_name` specified for publishing queue map `queue_map_name` is already used by another publishing queue map at the Q Capture server `server_alias` and the Q Capture schema `capture_schema`.

**Explanation:** The send queue can be used only once for one publishing queue map and under a single Q Capture schema.

**User response:** Provide a different send queue name that is not being used by any other publishing queue map for the Q Capture schema, and rerun the action.

The object `object_name` of type `object_type` does not exist at the server `capture_server` for the Q Capture schema `capture_schema`.

**Explanation:** The action was invoked on a Q subscription whose catalog definitions were not found in the Q Capture control tables.

**User response:** Drop the specified object from the Q Apply server, and if needed, recreate.

The object `object_name` of type `object_type` does not exist at the server `apply_server` for the Q Apply schema `apply_schema`.

**Explanation:** The action was invoked on a Q subscription whose catalog definitions were not found in the Q Apply control tables.

**User response:** Drop the specified object from the Q Capture server, and if needed, recreate.

The table `table_name` cannot be published. Reason code: `reason_code`.

**Explanation:** The table is not supported for publication. No script is generated. The following values are valid for the reason code:
The provided source table is a DB2 catalog table. Publishing of changes from system catalog tables is allowed only if the Q Capture program runs on z/OS.

The Q Capture server is on a z/OS platform and the source table is defined with an EDITPROC option, but DB2 for z/OS is not at the correct level.

The Q Capture server is on a z/OS platform and the source table is defined with a Valid proc option.

The source table has one or more LOB columns but there is no uniqueness defined.

No columns in the source table were selected for publication.

No key columns could be derived for the published columns at the source table.

User response: Review the reason codes in the explanation, and take the appropriate action:

0  Provide a source table other than a DB2 catalog table and rerun the action.
1  DB2 for z/OS source tables that are defined with an edit routine (EDITPROC) to provide additional data security are supported. To use these tables as sources, the DB2 subsystem that contains the tables must be at Version 8 with APAR PK13542.
2  Provide a different source table that is not defined with the Valid proc option and rerun the action.
3  Create a unique database property on any one of the source columns that is subscribed other than a LOB column, and then rerun the action.
4  Select at least one column in the source table and rerun the action.
5  Specify the key columns and rerun the action.

User response: Review the reason codes in the explanation, and take the appropriate action:

0  The data type of the column is not supported by publications. The following values are valid for the reason code:
   0  The data type of the column is not supported for publication.
   1  The maximum number of published LOB columns was exceeded for this table.
   2  Columns of LOB data type cannot be part of the key definition of a table.

User response: Review the reason codes, provide a different column name in the publication, and rerun the action.

The Q subscription name cannot be created because it already exists under the specified Q Capture or Q Apply schema.

Explanation: See message text.

User response: Provide another Q subscription name that does not already exist at the server and rerun the action.

The object objectowner.objectname of type object_type exists at the specified server and under the specified Q Apply schema.

Explanation: A catalog definition already exits in the control tables for the provided object name and Q Apply instance. Duplicate values for this type are not allowed in the same Q Apply instance.

User response: Provide a different name for the object and rerun the action.

The stored procedure storedproc_owner.storedproc_name cannot be used by the associated Q subscription.

Reason code: reason_code.

Explanation: The stored procedure is not valid. No script is generated. The following values are valid for reason code:

0  The stored procedure has no parameters.
1  The first parameter in the stored procedure must be 'OPERATION'.
2  The second parameter in the stored procedure must be 'SUPPRESSION_IND'.
3  The third parameter in the stored procedure must be 'SRC_COMMIT_LSN'.
4  The fourth parameter in the stored procedure must be 'SRC_TRANS_TIME'.
5  The 'INOUT' attribute value of the OPERATION parameter is not equal to 'INOUT'.
6  The 'INOUT' attribute value of the SUPPRESSION_IND, SRC_COMMIT_LSN, or SRC_TRANS_TIME parameter is not equal to 'IN'.
7  The stored procedure must contain at least five parameters: four required parameters (OPERATION, SUPPRESSION_IND,
**ASN2087E**  The stored procedure parameter
owner.name.parameter cannot be included in the Q subscription. Reason code: reason_code.

**Explanation:** The stored procedure parameter is not supported by the Q subscription. No script is generated. The following values are valid for the reason code:

0  The parameter's 'INOUT' attribute value is not equal to 'IN'.
1  The parameter is a special prerequisite parameter required by the Q Apply program and this parameter should not take part in the Q subscription.
2  The parameter is a before-value parameter, and before-value parameters cannot be mapped to a source column in the Q subscription.
3  The parameter is part of the key but the corresponding before-value parameter does not appear in front of this parameter in the stored procedure definition.

**User response:** Review the reason codes in the explanation. Either modify the parameter definition of the stored procedure or provide a stored procedure with supported parameters and rerun the action.

**ASN2088E**  The column or stored procedure parameter targetowner.targetname.name cannot be added to the Q subscription. Reason code: reason_code.

**Explanation:** The column or the stored procedure parameter is not supported by the Q subscription. No script is generated. The following values are valid for the reason code:

0  The target is a stored procedure and the parameter should exist in the procedure definition before adding the parameter to the Q subscription.
1  The column is already participating in the Q subscription.

**User response:** Review the reason codes in the explanation, and take the appropriate action:

0  Modify the definition of the stored procedure to include this parameter in the stored procedure and rerun the action.
1  Verify the column name and provide a different column name not already participating in the Q subscription.

**ASN2100E**  The length length of the string string for parameter parameter in the database object object_name of type object_type at the server server_alias is longer than the maximum limit max_limit.

**Explanation:** This type of database object requires a shorter string than the one that was supplied for the parameter.

**User response:** Refer to the SQL reference for the appropriate database to find the valid length of the string, and provide the correct name length.

**ASN2101E**  The database object object_name of type object_type already exists at server server_alias.

**Explanation:** The database object cannot be created because there is already a database object of the same type with the same name.

**User response:** Provide a name for that object that does not already exist in the database and reissue the task.

**ASN2102E**  The database object object_name of type object_type does not exist at the server server_alias.

**Explanation:** The database object does not exist in the database catalog. There is no information to retrieve for this object, and it cannot participate in the publication or Q subscription.

**User response:** Ensure that you specify the correct name of an existing database object and run the task again.

**ASN2104E**  The row size row_size of all columns in the database object object_name of type object_type at server server_alias exceeds the allowed maximum limit max_limit.

**Explanation:** The combined row size of all the columns in the specified object cannot exceed the limit. This object cannot be created or altered.

**User response:** Either assign a table space with a larger page size for this object, or specify fewer columns or shorter columns for this object. Refer to the database specific SQL reference for details on the row size limits of database objects.

**ASN2105E**  The number of columns num_columns in the database object object_name of type object_type at server server_alias exceeds the database limit max_limit.
Explanation: The number of columns that a database object (table or index) can contain depends on the database platform, but it cannot exceed a predefined maximum number. No script is generated to create or alter the object.

User response: Redefine the database object with the appropriate number of columns. Refer to the SQL Reference for the appropriate database to find the valid number of columns for the database object.

ASN2106E  The page size page_size1 for the table space tablespace_name at server server_alias does not match the page size page_size2 of the table space bufferpool buffer_pool.

Explanation: The page size for the table space must match the page size of the bufferpool that is assigned to this table space. The following values are valid for the reason code:

0   The bufferpool specified was assigned to the table space and the page size obtained from the bufferpool is not equal to the page size specified for the table.

1   Bufferpool information is not specified for the table space and so the default bufferpool is selected for this table space. But the page size of the default bufferpool does not match the page size of the table space.

User response: Check the input and take the following actions:

• If the bufferpool information is specified in the table space, modify the page size of the table space to match the page size of the bufferpool and rerun the action.

• If the default bufferpool was used for the table space, modify the page size of the table space to match the page size of the default bufferpool and rerun the action.

ASN2118E  The database object object_name of type object_type1 cannot be deleted because dependent objects of type object_type2 still exist at server server_alias.

Explanation: The database object cannot be deleted because one or more objects exist at the specified server that are dependent on the existence of this object.

User response: Check the provided object name and issue the task again.

ASN2119E  The parameter parm_name is missing for the database object object_name of type object_type at server server_alias.

Explanation: The parameter value is required for the specified object.

User response: Check the input and provide a valid value for the required parameter.

ASN2120E  The parameter parm_name is not supported for the database object object_name of type object_type at server server_alias.

Explanation: See message text.

User response: Check the input and ensure that no value is specified for the parameter. Refer to the database specific SQL reference for further details.

ASN2121E  The parameter parm_name cannot be used in an update operation for the database object object_name of type object_type at server server_alias.

Explanation: You cannot update the value of this parameter.

User response: Check the input and ensure that no value is specified for the parameter.

ASN2122E  The value value1 for the parameter parm1 of the database object object_name of type object_type conflicts with the value value2 for parameter parm2.

Explanation: The values provided for the specified parameters cannot coexist at the server.

User response: Modify the input to reflect a valid value combination. Refer to the database specific SQL reference to find out which value combinations are valid.

ASN2123E  The value value for the parameter parm of the database object object_name of type object_type at server server_alias is higher than the maximum value allowed max_value.

Explanation: The provided value is too high. Only values lower than or equal to the specified maximum are supported.

User response: Check the input and provide a lower
The value \texttt{value} for the parameter \texttt{parm} of the database object \texttt{object_name} of type \texttt{object_type} at server \texttt{server_alias} is lower than the minimum value allowed \texttt{min_value}.

\textbf{Explanation:} The provided value is too small. Only values higher than or equal to the specified minimum value are supported.

\textbf{User response:} Check the input and provide a higher number. Refer to the database specific SQL reference for the valid range of values.

The database object \texttt{object_name1} of type \texttt{object_type1} at server \texttt{server_alias} contains duplicate objects of type \texttt{object_type2} of the name \texttt{object_name2}.

\textbf{Explanation:} The duplicate objects are not allowed.

\textbf{User response:} Check the input and make sure each object is provided only once.

The database object \texttt{object_name} of type \texttt{object_type} at server \texttt{server_alias} contains \texttt{num_objects} objects of type \texttt{object_type2} but the maximum limit allowed is \texttt{max_limit}.

\textbf{Explanation:} Too many objects were specified for the provided parameter.

\textbf{User response:} Check the input and reduce the number of these database objects to the maximum.

The column \texttt{col_name} of data type \texttt{datatype} cannot be used in the database object \texttt{object_name} of type \texttt{object_type} at the server \texttt{server_alias}. Reason code: \texttt{reason_code}.

\textbf{Explanation:} The column is not supported in the specified database object. The following values are valid for the reason code:

- 0: The data type of the column is not valid.
- 1: The column cannot be used in the database object.
- 2: The column length is too long.
- 3: The data type of the referencing column does not match the data type of the referenced column in a foreign key constraint.

\textbf{User response:} Review the reason codes listed in the explanation. Choose another column or choose another database object for this column.

A conflict exists between property \texttt{prop_name} of type \texttt{prop_type} and another property in the database object \texttt{object_name} of type \texttt{object_type} at server \texttt{server_alias}.

\textbf{Explanation:} The object was not created or updated because conflicting properties were found and they cannot coexist. The following values are valid for the reason code:

- 0: You are trying to create the object and you specified a property that conflicts with another property specified in the same session.
- 1: You are trying to update the object and you specified a property that conflicts with another property specified in the same session.
- 2: You are trying to update the object and you specified a property that conflicts with an existing property in the object.

\textbf{User response:} If both the properties are new and are specified, then specify only one of the properties and issue the task. If one of the properties already exists in the object, then do not specify the new property in the object.

The database object \texttt{object_name} of type \texttt{object_type} cannot be created or updated because column \texttt{column_name} does not exist in the table \texttt{table_name} at server \texttt{server_alias}.

\textbf{Explanation:} See message text.

\textbf{User response:} Check the input and provide another name for the column that exists in the table.

The column \texttt{column_name} in the target table \texttt{table_name} cannot be used for Q Replication because the column is read-only.

\textbf{Explanation:} See message text.

\textbf{User response:} Choose another target column. Refer to the database specific SQL reference to determine which columns cannot be updated.

The Column \texttt{column_name} in the target table \texttt{table_name} is not mapped to a source column for replication. Because this column is not nullable and it does not have a default value, the Q subscription cannot be created or updated.

\textbf{Explanation:} Any columns in a target table that do not participate in the Q subscription must be either nullable or not null with default. At least one column in the target table that you did not select for the Q subscription does not meet the criteria.
User response: Take one of the following actions:

- Map the specified column in the target table to a column in the source table so that the column participates in the Q subscription.
- Enable the nullability property for the target column.
- Specify a default value for this column.

**Explanation:** The values of the source column cannot be applied to the target column because the data types of the columns are not compatible.

User response: Take one of the following actions:

- If the target exists and is a user table, change the column mapping to a different column that has a compatible data type.
- If the target exists and is a nickname, alter the data type of the nickname column to match the source column data type. See "Nickname data types required for federated Q Replication" in the DB2 Information Center for details.
- If the target table does not exist, modify the data type of the target column so that it is compatible with the source column.

**Explanation:** A difference between the values of the source and target column for the same attribute was detected. A script for creating or updating the Q subscription is generated. The following values are valid for the reason code:

- 0: The source column can contain null values, but the target column does not allow null values. Null values in the source column cannot be applied to the target column.
- 1: The source column data type is either a CHAR or a VARCHAR, whereas the target column data type is a DATE, TIME, or a TIMESTAMP. Any string values in the source column that are not a valid representation of a time, date, or timestamp cannot be applied to the target column.
- 2: The source column contains numbers that are outside of the range of values that the target column supports.
- 3: The length of the VARCHAR data type of the source column is longer than the length of the CHAR or VARCHAR data type of the target column.

User response: Review the reason codes in the explanation, and take the appropriate action:

- If the target table exists, change the column mapping.
- If the target table does not exist, change the column properties.
- Check the source and the target column. If the source column will only contain values that are allowed for the target column, no action is required.

**Explanation:** There can be potential loss of data between the source and the target columns because the target column data type definition indicates that the precision allowed in the column is much lower than that of the source column.

User response: Take one of the following actions:

- If the target table exists, change the column mapping.
- If the target table does not exist, change the column properties.
• Check the source and the target column. If the values will never exist in the source column or if the truncation is acceptable in the target column, no action is necessary.

ASN2139E  The value value for the parameter parm
in the database object object_name of
type object_type at server server_alias is
not valid because it is not equal to one
of the following values: valid_values.

Explanation: See message text.
User response: Check the input and provide a value from the list of values specified.

ASN2140E  The value value for the parameter parm1
in the database object object_name of
type object_type at server server_alias is
not a multiple of factor.

Explanation: The values for the specified parameter in
the database object must be multiples of the provided
factor.
User response: Check the input and provide a value
that is a multiple of the specified factor.

ASN2141E  The value value for the parameter parm
of the database object object_name of
type object_type at server server_alias is
not valid.

Explanation: The value for the specified parameter is
not valid on the database platform.
User response: Check the input and provide another
value. Refer to the database specific SQL reference for
valid values for this parameter.

ASN2142E  The attribute parm is not valid for LOB
table space tablespace_name on server
server_alias.

Explanation: The following attributes are not valid for
a LOB table space: PCTFREE, TRACKMOD,
COMPRESS, SEGSIZE.
User response: Remove the attributes that are not
valid for LOB table space (PCTFREE, TRACKMOD,
COMPRESS, SEGSIZE), and rerun the action.

ASN2144E  The table table_name at the server
server_alias was not created or updated
because the definition of the foreign
key foreign_key is not valid. Reason code:
reason_code.

Explanation: No script is generated. The following
values are valid for the reason code:
0 The number of referencing columns is lower
than the referenced columns.
1 The number of referencing columns is higher
than the number of referenced columns.

User response: Check the input and ensure that the
number of referenced columns matches the number
of referencing columns.

ASN2145E  The column name column_name for the
table table_name at server server_alias was
specified more than once in the same
session.

Explanation: See message text.
User response: Check the input and remove the
duplicate name.

ASN2146E  The publication or Q subscription
cannot be created or updated because
required information is missing. Reason
code: reason_code.

Explanation: No script is generated. The following
values are valid for the reason code:
0 The source table information is missing.
1 The target table information is missing.
2 No source columns were selected.
3 No target columns were selected.

User response: Check the input and provide values
for the specified parameters.

ASN2147E  The publication or Q subscription
cannot be updated or created because
column column_name does not exist in
table targetowner-targetname at server

Explanation: No script is generated. The following
values are valid for the reason code:
0 The column does not exist in the source table.
1 An existing target table was provided but the
specified column does not exist in the target
table.

User response: Check the input and select columns
that exist in the source or target table.
The publication or Q subscription cannot be created or updated because column column_name in table table_name at server server_alias cannot be a replication key column. Reason code: reason_code.

**Explanation:** No script is generated. The following values are valid for the reason code:

- **0**
  The column that is selected for the key column is not part of the list of selected source columns.

- **1**
  The column that is selected for the key column is not part of the list of selected target columns.

**User response:** Check the input and choose key columns that are selected as the source or the target columns.

The target table_name of type target_type is read-only.

**Explanation:** The specified database object cannot be a target because it cannot be updated.

**User response:** Choose another database object as a replication target. Refer to the database specific SQL reference for information about which database objects can be updated.

The Q subscription cannot be created because the replication target key is missing. Reason code: reason_code.

**Explanation:** No script is generated. The following values are valid for the reason code:

- **0**
  User input is missing for the target key.

- **1**
  The target table does not exist and the source table does not contain any unique database properties for the selected source columns.

- **2**
  Both source and target tables exist, but they do not contain any unique database properties on the selected target and source columns.

**User response:** Check the input and make sure the appropriate columns are selected as part of the target key.

The source column source_column does not have a mapped target column.

**Explanation:** The action create or update Q Subscription cannot be completed because the specified source column does not have a target column to be mapped.

**User response:** Check the source column and verify that it is mapped to a valid target column and rerun the action.

The target column target_column does not have a mapped source column.

**Explanation:** The action create or update Q subscription cannot be completed because the specified target column does not have a source column to be mapped.

**User response:** Check the target column and verify that it is mapped to a valid source column and rerun the action.

The option option that was provided is not supported for the platform platform on server server.

**Explanation:** The ASNCLP option is not supported for the server platform.

**User response:** Check the syntax and provide the correct options.

The specified environmental value is not relevant in this particular context. The token token will be ignored.

**Explanation:** See message text.

**User response:** Check the syntax and provide the correct values.

The publication or replication queue map queue_map_name cannot be deleted because it is used by one or more publications or Q subscriptions, respectively. Reason code: reason_code.

**Explanation:** The following values are valid for the reason code:

- **0**
  You are trying to delete a publishing queue map but there exist one or more publications that depend on this queue map.

- **1**
  You are trying to delete a replication queue map but there exist one or more Q subscriptions that depend on this queue map.

**User response:** Review the reason codes in the explanation, and take the appropriate action:

- **0**
  If you want to delete the publications that use the publishing queue map, delete them first and then delete the publishing queue map.

- **1**
  If you want to delete the Q subscriptions that use the replication queue map, delete them first and then delete the replication queue map.
ASN2156W The uniqueness of the replication key values is not enforced at the source table, at the target table, or at both. Reason code: reason_code.

Explanation: The following values are valid for the reason code:

0  The uniqueness of the replication key is enforced at the target table, but not at the source table.
1  The uniqueness of the replication key is enforced at the source table, but not at the target table.
2  The uniqueness of the replication key values is not enforced at both the source and target tables.

User response: Review the reason codes in the explanation, and take the appropriate action:

0  Make sure that the application on the source table only generates unique values for the source columns that are mapped to the replication target key columns.
1  Make sure that the application on the target table only generates unique values for the target columns that were selected as replication target key columns.
2  Take the actions that are described for reason codes 0 and 1.

ASN2157I No script was generated because no action was required.

Explanation: The action is not required because the objects in the database already reflect the required state.

User response: This message is for your information only. No action is required.

ASN2158E No objects of type object_type were found for the provided query query. The command will be ignored.

Explanation: In the command line interface, you specified a query to retrieve multiple objects that all participate in an action (such as Create Publication or Create Q Subscription). The query did not return any objects. No script is generated for the create, update, or delete action.

User response: Redefine the query so that it can return at least one object of the specified type and reissue the command.

ASN2159E The value value provided for the option option cannot be used in conjunction with token.

Explanation: In the ASNCLP program, some parameters are not supported in certain scenarios. For example, if the subscription specifies to create a new target table, then the TYPE value cannot be STOREDPROC because there is no support for creating stored procedures.

No script is generated.

User response: Refer to the ASNCLP documentation for a list of valid combinations for the keywords.

ASN2160E The object object of type type cannot be created at server server because the logical database was not specified.

Explanation: The logical database must be specified in order to create the specified object type on a z/OS platform.

User response: Specify a value for the logical database and rerun the action.

ASN2161E The table table_name at server server cannot be created or updated because the column column_name is not valid.

Reason code: reason_code.

Explanation: The following values are valid for the reason code:

0  The GRAPHIC data type is not supported for ASCII or EBCDIC table spaces.
1  The column encoding scheme "FOR MIXED DATA" is not supported for ASCII or EBCDIC table spaces.
2  The GRAPHIC data type is not supported at the specified server.

User response: Specify a UNICODE table space for this table and rerun the action.

ASN2162W The uniqueness of the columns of the unique constraint or index name in the target table table_name at server server is not enforced in the source table table_name at server server.

Explanation: If uniqueness for one or more of the replicated columns is enforced at the target table but not at the source table, then the source column value combinations that violate this uniqueness cannot be replicated to the target. Data in the source table cannot be applied to the target table.

User response: If all unique database constraints or indexes at the target table cannot be violated by column value combinations from the source table, no
action is necessary. Otherwise, do not run the script that was generated. Instead, reconsider dropping the unique constraint or index at the target table and run the action again.

ASN2163E A script to create or update the Q subscription was not generated. The source table is `table_name`. The target table is `table_name`. Reason code: `reason_code`.

Explanation: The following values are valid for the reason code:

0  The target table does not exist and the source table does not have a unique key to be used for new target table.
1  The reason differs depending on the target type:

**Target tables**
The target table exists and neither the target table nor the source table has a unique index or primary key.

**Stored procedure targets**
The stored procedure does not have the correct number of parameters for the key columns. Two stored procedure parameters are required for each key column at the source: one for the before value of the key and one for the after value. The parameter for the before value must come before the parameter for the after value. The before-value parameter must begin with an X.

2  An automatic index could not be derived for the target table.

User response: Review the reason codes in the explanation. Modify the source table definition, the target table or stored procedure definition, or both. Reissue the action.

ASN2164E The column `tablename.columnname` of data type `datatype` cannot be included in the Q subscription. Reason code: `reason_code`.

Explanation: The following values are valid for the reason code:

0  The data type of the column is not supported for Q subscription.
1  The maximum number of subscribed LOB columns was exceeded for this table.
2  The target is a federated server and write access to a LOB data type for the federated data source is not permitted.

User response: Review the reason codes, provide a different column name in the Q subscription, and rerun the action.

ASN2165E The properties of the queue map `queue_map_name` cannot be updated because its associated source/target database or subsystem name was not added to the Replication Center object tree.

Explanation: Before you can change the properties of a publishing or replication queue map, you must add both the source and target servers that are specified for the queue map to the Replication Center.

User response: Use the Add Q Capture Server or Add Q Apply Server wizards to add the missing server to the Q Capture Servers or Q Apply Servers folder in the object tree.

ASN2200E The Q Apply schema `apply_schema` or the Q Capture schema `capture_schema` for server `server` could not be used for multidirectional replication.

Explanation: On each server that participates in multidirectional replication, the Q Apply and Q Capture control tables must have the same schema.

User response: Make sure that the Q Apply control tables and the Q Capture control tables have the same schema name and that they exist on the same server that you are using for multidirectional replication.

ASN2201E In the IBMQREP_SUBS table for Q Capture schema `schema_name`, the values in the SOURCE_NODE column are not equal to each other.

Explanation: There are one or more Q subscriptions in the Q Capture control tables for the given schema that contain different values for the SOURCE_NODE field. In multidirectional replication, the rows in the SOURCE_NODE column must contain the same value.

The report log generated by ASNCLP contains details about the Q subscription that failed.

User response: Verify that all the SOURCE_NODE values for the Q subscriptions are the same in the IBMQREP_SUBS table.

ASN2202E One or more Q subscriptions (SUBTYPE `subtype`) cannot be created because one or more reported errors were not corrected.

Explanation: The Q subscriptions cannot be created for multidirectional replication because they are not valid. Refer to the error message given for each Q subscription.
User response: Fix the invalid Q subscriptions and try creating them again.

**ASN2203E** The Q subscription name name is not unique for the Q Capture schema capture_schema on server server for multidirectional replication.

Explanation: The same name must not be provided for multiple Q subscriptions when setting up a multidirectional replication configuration. For each instance of the Q Capture program, all Q subscription names must be unique. Because the name of the Q subscription is stored at both the source and target server, be sure that the name is compatible with the code pages for both the source and target servers.

User response: Make sure that each Q subscription name is unique.

**ASN2204E** The table table_name is on server server, but the Q Apply and Q Capture schemas schema were not found on that server.

Explanation: The Q Capture and Q Apply control tables with the given schema were not found on the same server as the table that you are replicating. In multidirectional replication, the Q Capture and Q Apply control tables must be on the same server as the replicated table and they must use the same schema name.

User response: Ensure that the table and the Q Apply and Q Capture control tables that it uses for multidirectional replication are on the same server.

**ASN2205W** A Q subscription name for Q Apply schema apply_schema on Q Apply server server is not valid and was not created as part of the mass operation.

Explanation: When creating multiple Q subscriptions at one time for unidirectional replication, if one or more of the Q subscriptions are not valid they are not created; however, the rest of the Q subscriptions are created if they are valid.

User response: Correct the Q subscriptions that were not valid and then create them.

**ASN2206E** The connection information provided for Q Apply schema and Q Capture schema source_schema on server server to Q Apply schema and Q Capture schema target_schema on server server points to itself.

Explanation: In multidirectional replication, the Q Apply schema and the Q Capture schema at the Q Apply server (source) cannot also be used as the Q Capture server (target).

**ASN2207E** The replication queue map queue_map_name is not valid for setting up a connection from the source Q Apply and Q Capture schema source_schema on the Q Capture server server to the target Q Apply and Q Capture schema target_schema on the Q Apply server server.

Explanation: This replication queue map does not match the specified schemas that are used for multidirectional replication.

User response: Ensure that the replication queue map maps from the specified Q Capture control tables to the specified Q Apply control tables.

**ASN2208E** Connection information was not provided for the SUBGROUP subgroup.

Explanation: The Q subscription group must have all required information defined before it can proceed with any CREATE, ALTER, or DELETE operations.

User response: Ensure that all of the replication queue maps are provided between the source and target tables.

**ASN2209E** The connection information exists for SUBGROUP subgroup and it cannot be overwritten.

Explanation: Once you define connection information for a Q subscription group, you cannot change it.

User response: Do not give connection information for a Q subscription group more than once.

**ASN2210E** A Q subscription with the SUBGROUP name subgroup does not exist on the Q Capture server server using Q Apply and Q Capture schema schema.

Explanation: The Q subscription group information could not be found.

User response: Make sure that there is at least one Q subscription on the Q Capture schema for the SUBGROUP name.

**ASN2211E** No Q subscriptions exist for the reference table table_name for the SUBGROUP subgroup using Q Apply and Q Capture schema schema on server server.
Explanation: See message text.

User response: Make sure that there is a Q subscription of SUBTYPE 'P' (peer-to-peer) or 'B' (bidirectional) on the Q Capture schema that uses the given reference table as a source.

ASN2212E An internal inconsistency was detected.
Reason code: reason_code

Explanation: The Q subscription group must be synchronized with the persistent information on the database before being used. The following values are valid for the reason code:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>The Q subscription group already exists but it was not synchronized, or it is not in a synchronized state.</td>
</tr>
<tr>
<td>1</td>
<td>Connection information between the nodes was missing.</td>
</tr>
</tbody>
</table>

User response: Contact IBM Software Support. Provide an Analyzer report.

ASN2213E Replication queue map queue_map_name was specified with duplicate source and target information: Q Apply schema apply_schema on Q Apply server apply_server, and Q Capture schema capture_schema on Q Capture server capture_server.

Explanation: A replication queue map with duplicate source and target information was specified. Replication queue maps must be unique between the connections they form. For example, the first connection is arbitrary. The second connection must share one end with either end of the first connection. The third connection must share one end with one of the three points formed by the previous two connections.

User response: Make sure that the replication queue map specified is unique to the Q Apply server and the Q Capture server.

ASN2214E Replication queue map queue_map_name between Q Apply schema apply_schema on Q Apply server apply_server and Q Capture schema capture_schema on Q Capture server capture_server does not connect to any of the previously specified replication queue maps.

Explanation: The replication queue maps must be connected to each other. Each replication queue map must share a Q Capture or Q Apply schema with any of the previously specified replication queue maps.

User response: Specify the replication queue map such that it shares a Q Capture or Q Apply schema with any of the previously specified replication queue maps.

ASN2215E The maximum number of Q Apply and Q Capture schema pairs allowed for a peer-to-peer Q subscription group was exceeded. The maximum number of pairs allowed is max_limit.

Explanation: See message text.

User response: Reduce the number for Q Apply and Q Capture schema pairs used in this configuration for peer-to-peer replication.

ASN2216E Q subscriptions of SUBTYPE subtype can be assigned only to a Q subscription group with other Q subscriptions of the same SUBTYPE.

Explanation: Q subscriptions of SUBTYPE 'P' (peer-to-peer) cannot be added to a bidirectional replication configuration, and Q subscriptions of SUBTYPE 'B' (bidirectional) cannot be added to a peer-to-peer replication configuration.

User response: When adding Q subscriptions to a SUBGROUP, ensure that the Q subscriptions have the same SUBTYPE as others in the SUBGROUP.

ASN2217E The pair of Q Apply and Q Capture schemas from which each Q subscription originates was not specified. The attributes for the two Q subscriptions cannot be updated for bidirectional replication.

Explanation: When setting up bidirectional replication, you can specify different attributes for each of the two Q subscriptions. To do so, you must specify from which Q Apply and Q Capture schema each Q subscription originates.

User response: To assign attributes to a Q subscription when setting up bidirectional replication, specify the Q Apply and Q Capture schema pair from which the Q subscription originates.

ASN2218E An internal inconsistency was detected.
Reason code: reason_code.

Explanation: The Q subscriptions are not synchronized with the persistent information on the database to perform an UPDATE or DELETE operation. The following value is valid for the reason code:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>The SUBGROUP already exists but was not synchronized, or it is not in a synchronized state.</td>
</tr>
</tbody>
</table>

User response: Contact IBM Software Support. Provide an Analyzer report.
ASN2219E The number of Q Apply and Q Capture schema pairs schema has exceeded the number allowed for SUBGROUP subgroup with Q subscriptions of SUBTYPE subtype.

Explanation: The Q subscription group configuration limits the number of Q Apply and Q Capture schema pairs. Bidirectional replication allows only two Q Apply and Q Capture schema pairs per SUBGROUP.

User response: Make sure that the number of Q Apply and Q Capture schema pairs is less than or equal to the maximum allowed for that SUBTYPE.

ASN2220E There are not enough Q Apply and Q Capture schema pairs schema for SUBGROUP subgroup with Q subscriptions of SUBTYPE subtype. The minimum number of pairs required is number.

Explanation: See message text.

User response: Make sure that the number of Q Apply and Q Capture schema pairs is equal to the minimum allowed for that type of Q subscription.

ASN2221E The connection information is not valid for this SUBGROUP subgroup for SUBTYPE subtype.

Explanation: Bidirectional and peer-to-peer replication require that all servers are connected to each other.

User response: Validate the connection information provided for this SUBGROUP and SUBTYPE and fix any problems that prevent all servers from connecting to each other. Then recreate the Q subscriptions.

ASN2222E The number number of attribute type object_type on table table_name on server server does not match the number number of object type object_type on table table_name on server server.

Explanation: The number of columns, unique indexes, primary keys, foreign keys, unique keys, and check constraints must be the same for the source and the target tables that participate in multidirectional replication configurations.

User response: Either change the definition of the specified attribute in the source or the target table so that it matches the attribute on the other table, or choose a different combination of source and target tables.

ASN2223E ASNCLP: More than one SET SUBGROUP statement was found in the script for creating, updating, or deleting a SUBGROUP.

Explanation: Only one SUBGROUP can be specified per script. The ASNCLP program cannot work with more than one subgroup in a session. The SUBGROUP was not created, updated, or deleted.

User response: Ensure that you specify only one SET SUBGROUP statement per script and run the script again.

ASN2224E ASNCLP: The Q subscription SUBTYPE subtype does not match the SUBTYPE of other Q subscriptions in a Q subscription group.

Explanation: The information specified in a create subscription command was inconsistent with other create subscription commands belonging to this multidirectional replication configuration. Different types of Q subscriptions were detected for the Q subscription group. Only one SUBGROUP can be specified, and the SUBGROUP must have Q subscriptions of one SUBTYPE. No Q subscriptions were created.

User response: Ensure that you specify either SUBTYPE ‘P’ or ‘B’ under a specific SUBGROUP. Do not mix types of Q subscriptions in one Q subscription group. Rerun the create subscription command.

ASN2225E ASNCLP: More than one SET SUBGROUP statement was found in the script for creating, updating, or deleting a SUBGROUP.

Explanation: Only one SUBGROUP can be specified per script. The ASNCLP program cannot work with more than one subgroup in a session. The SUBGROUP was not created, updated, or deleted.

User response: Ensure that you specify only one SET SUBGROUP statement per script and run the script again.

ASN2226E ASNCLP: The number of set connection statements is not sufficient for the number of set schema statements.

Explanation: In a multidirectional replication configuration, for every n nodes you need n*(n-1) connections. For example, if there are 3 nodes, you need 3*(3-1)=6 connections.

User response: Ensure that the set connection statement and the set schema statement conform to the rules.

ASN2227E ASNCLP: The number of set connection statements is not sufficient for the number of set schema statements.

Explanation: In a multidirectional replication configuration, for every n nodes you need n*(n-1) connections. For example, if there are 3 nodes, you need 3*(3-1)=6 connections.

User response: Ensure that the set connection statement and the set schema statement conform to the rules.

ASN2228E ASNCLP: Q subscriptions for the SUBGROUP subgroup already exist on the specified servers.

Explanation: While trying to create more Q subscriptions, you provided SUBGROUP information
instead of providing referential information to that SUBGROUP.

User response: Provide a reference to the SUBGROUP rather than defining the SUBGROUP again.

---

**ASN2229I**  The action `action_name` started at `time_stamp`. The Q Apply server is `apply_server`, the Q Apply schema is `apply_schema`, and the remote server name is `remote_servername`.

Explanation: The action started successfully at the Q Apply server.

User response: This message is for your information. No action is required.

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Explanation: The Q subscription is starting to be created.

User response: This message is for your information. No action is required.

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**ASN2231E**  The database object `object_name` of type `object_type` does not exist at the data source `datasource` that was defined through the remote server `remote_server`.

Explanation: The database object does not exist in the database catalog at the data source that you specified. Because no information can be retrieved for this object, this object cannot participate in the Q subscription.

User response: Ensure that you specify the correct name of an existing database object and run the task again.

---

**ASN2232E**  The database object `object_name` of type `object_type` already exists at the data source `datasource`, which is defined through the remote server `remote_server`.

Explanation: The database object cannot be created because another object already exists that has the same name at the specified data source.

User response: Provide a name for that object that does not already exist in the database, and run the task again.

---

**ASN2233E**  The data source `datasource_name` that was defined by using the remote server `remote_servername` is not supported as a Q Replication target.

Explanation: Only a subset of the data source platforms are supported as targets in Q Replication.

User response: See “Supported sources and targets” in the DB2 Information Center. Provide a remote server name that is defined on a supported target and run the task again.

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**ASN2234W**  The length `length1` of the source column `source_colname` is greater than the length `length2` of the target column `target_colname`. The source data applied to the target might get truncated.

Explanation: If the actual value of the source column cannot be stored in the target column completely, the data that is applied to the target might get truncated. As long as the actual values from the source are not larger as the target column definition, no data is modified.

User response: No action is needed if truncation is acceptable or if the source column values are always small enough to be applied to the target column. If truncation is not acceptable, then do not select this column to be part of the Q subscription.

---

**ASN2235E**  The name of the target nickname `owner.name` conflicts with another database object of type `object_name`.

Explanation: For federated targets, the replication administration tools always create a new target nickname, which cannot have the same name as a table, view, or other nickname that exists on that system. The name that you provided already exists.

User response: Provide a name for the nickname that is not the same name as a table, view, or other nickname that already exists on that system.

---

**ASN2236W**  The target table `schema.tablename` of the target nickname `schema.nickname` has a foreign key defined on it. The nickname does not have the foreign key defined on it but needs to.

Explanation: Any referential constraints that are defined on the source table are not automatically carried over to the nickname. You need to issue an alter statement to carry the constraints over to the nickname so that the information is in the DB2 catalog tables.

If both the parent and the child tables are participating in the Q subscription, the Q Apply program relies on the information that is stored in the DB2 catalog tables about the referential integrity constraints in order to apply changes to the parent and the child target tables.
in the correct sequence. If the referential constraint information in not carried over to the nicknames, the Q Apply program might encounter an error while loading the nicknames if the data violates the referential integrity rules.

User response: Issue the ALTER NICKNAME statement if the parent data source tables are also participating in the Q subscriptions. See "Altering a nickname (DB2 command line)" in the DB2 Information Center for the correct syntax to alter a nickname.

ASN2237E The table object cannot be created at server server because you did not specify the table space.

Explanation: The replication administration tools require for all z/OS tables to be created using an explicit table space assignment.

User response: Assign a table space to the z/OS table.

ASN2238W Transaction mode processing is not supported when you are replicating data from a non-DB2 relational server. In this situation, NULL is the only valid value for the COMMIT_COUNT attribute of the subscription set. The COMMIT_COUNT commitcount_value that you specified will be ignored.

Explanation: When the source of a subscription set is a non-DB2 relational server, the Apply program uses table mode processing. For table mode processing, the Apply program fetches answer sets for the subscription-set members one member at a time, until all data has been processed. At the end of the data processing for the whole set, the Apply program issues a single commit. The COMMIT_COUNT of NULL is used to tell the Apply program to use table mode processing. The COMMIT_COUNT that you specified is not NULL. Therefore the COMMIT_COUNT is invalid and is ignored.

User response: This message is for your information only. No action is required.

ASN2239I The action action_name ended successfully at time_stamp for the Q Apply server apply_server, the Q Apply schema apply_schema and the remote server name remote_servername.

Explanation: The action ended successfully at the Q Apply server.

User response: This message is for your information only. No action is required.

ASN2240I The Q subscription was finished being created at time_stamp for the Q subscription name name. The Q Capture server is capture_server, the Q Capture schema is capture_schema, the Q Apply server is apply_server, the Q Apply schema is apply_schema, the remote server is remote_servername, the source table is table_name and the target table or stored procedure is table_name.

Explanation: The Q subscription was successfully created.

User response: This message is for your information. No action is required.

ASN2241I The Q subscription was finished being dropped at time_stamp for the Q subscription name name. The Q Capture server is capture_server, the Q Capture schema is capture_schema, the Q Apply server is apply_server, the Q Apply schema is apply_schema, the remote server is remote_servername, the source table is table_name and the target table or stored procedure is table_name.

Explanation: The Q subscription was successfully dropped.

User response: This message is for your information. No action is required.

ASN2240I The Q subscription was finished being created at time_stamp for the Q subscription name name. The Q Capture server is capture_server, the Q Capture schema is capture_schema, the Q Apply server is apply_server, the Q Apply schema is apply_schema, the Q Apply server is apply_server, the Q Apply schema is apply_schema, the remote server is remote_servername, the source table is table_name and the target table or stored procedure is table_name.

Explanation: The Q subscription was successfully created.

User response: This message is for your information. No action is required.

ASN2251E The template template_name cannot be dropped because it is being used by one or more monitor suspensions.

Explanation: At least one row exists in the IBM$SNAP_MONSUSPENDS table that refers to the provided template name.

User response: Drop all the suspensions that use this template and then drop the template.

ASN2252W The monitor program will be suspended for the entire period between the start date start_date and end date end_date because a template is not provided.

Explanation: Please see message text.

User response: If you intend to suspend the monitor program for the entire period then no action is necessary. However, if you intend to suspend the monitor program for a certain duration on certain days between the start date and end date then you need to provide a template that is defined using these attributes.
ASN2253E  The Replication Alert Monitor control tables on server server_name are at a Version 8 architecture level. They must be migrated to a Version 9 architecture level before the suspension function can be used.

Explanation: Monitor suspension templates and suspensions can only be created if the Monitor control tables have been migrated to a level that supports this function. No script is generated.

User response: Run the migration program to upgrade the control table's architecture level and create the set of new control tables before invoking the action.

ASN2254E  The template template_name cannot be created as another template with the same name already exists at the server server_name.

Explanation: A row already exists in the IBMSNAP_TEMPLATES table with the same value in the TEMPLATE_NAME column as the provided template name. No script is generated.

User response: Provide a valid name for the template and reissue the command.

ASN2255E  The suspension suspension_name cannot be created because another suspension with the same name already exists at the server server_name.

Explanation: At least one row exists in the IBMSNAP_SUSPENDS table that has the same value in the SUSPENSION_NAME column as the provided suspension name. No script is generated.

User response: Provide a valid value for the suspension name and reissue the command.

ASN2256E  The value value provided for the input parameter START DATE or END DATE is out of range.

Explanation: The START DATE and END DATE input parameters require a value that is within the allowed range of the DB2 TIMESTAMP data type.

User response: Make sure that the specified value is within the allowed range. Refer to the DB2 SQL Reference for acceptable values for the TIMESTAMP data type.

ASN2258E  The value value provided for the input parameter START DATE or END DATE is out of range.

Explanation: The START DATE and END DATE input parameters require a value that is within the allowed range of the DB2 TIMESTAMP data type.

User response: Make sure that the specified value is within the allowed range. Refer to the DB2 SQL Reference for acceptable values for the TIMESTAMP data type.

ASN2259E  The value value specified for the input parameter parameter is incorrect. reason_text

Explanation: A value specified as an input parameter to the CREATE TEMPLATE or ALTER TEMPLATE command is either incorrect or outside of the required value range.

User response: Please specify a correct value for the input value based on the reason_text.

ASN2261E  An operating system error occurred while executing the command command_name on the host host_name by the stored procedure schema_name in database database_name. The operating system error message is message.

Explanation: The operating system could not execute the command.

User response: Ensure that the fenced user of the DB2 instance of the specified database can execute the provided command.

ASN2262E  An operating system error occurred while executing the command command_name on the host host_name by the stored procedure schema_name in database database_name. The operating system error message is message.

Explanation: The operating system could not execute the command.

User response: Ensure that the fenced user of the DB2 instance of the specified database can execute the provided command.

ASN2262E  The requested action failed because the name name that was provided for the WebSphere MQ queue manager is not valid or known at the host system host_name. The WebSphere MQ error code is error_code.

Explanation: The replication administration tool must be able to connect to the specified queue manager to perform the requested action. The queue manager name that was specified does not match any existing queue managers on the host system.

User response: Make sure that the queue manager exists on the host system and check the queue manager name. WebSphere MQ object names are case-sensitive. Read "2058 (080A) (RC2058): MQRC_Q_MGR_NAME_ERROR" in the WebSphere MQ information center for more details.
ASN2263E  The requested action failed because the WebSphere MQ queue manager host_name-queue_manager_name is not available for connection. The WebSphere MQ error code is error_code.

Explanation: The replication administration tool must be able to connect to the specified queue manager to perform the requested action. The queue manager might not be running. Other possible causes can be found in the error code that was returned by WebSphere MQ.

User response: Start the queue manager if it is not running, for example by using the strmqm command. Otherwise, read "2059 (080B) (RC2059): MQRC_Q_MGR_NOT_AVAILABLE" in the WebSphere MQ information center for more details.

ASN2264E  The requested action failed because the command server for the WebSphere MQ queue manager host_name-queue_manager_name is not running. The WebSphere MQ error code is error_code.

Explanation: The replication administration tool must be able to connect to the specified queue manager to perform the requested action. The command server must be running to issue commands to the queue manager and transmit responses back to the sender.

User response: Start the command server, for example by using the strmqcsv command.

ASN2265E  The stored procedure schema_name in subsystem subsystem_name is not authorized to access the WebSphere MQ queue manager host_name-queue_manager_name.

Explanation: The effective user of the stored procedure does not have sufficient authority to connect to the queue manager.

User response: Ensure that the subsystem user, stored procedure definer, or the DB2 user has the authority to access WebSphere MQ. Read "2035 (07F3) (RC2035): MQRC_NOT_AUTHORIZED" in the WebSphere MQ information center for more details.

ASN2266E  An error occurred while accessing the WebSphere MQ queue manager host_name-queue_manager_name. The WebSphere MQ reason code is reason_code.

Explanation: A problem occurred while accessing the queue manager.

User response: View the explanation for this reason code in the WebSphere MQ information center and correct the problem.

ASN2267E  A WebSphere MQ queue with the specified name queue_name does not exist in the queue manager host_name-queue_manager_name. The WebSphere MQ error code is error_code.

Explanation: A queue with the specified name cannot be found at the specified queue manager. The queue name that was specified might be incorrect.

User response: Check the queue name for misspellings and ensure that the queue exists in the queue manager (for example using the DISPLAY QUEUE command). Read "2085 (0825) (RC2085): MQRC_UNKNOWN_OBJECT_NAME" in the WebSphere MQ information center more details.

ASN2268E  The action action failed on WebSphere MQ queue host_name-queue_manager_name-queue_name. The WebSphere MQ reason code is reason_code.

Explanation: A problem occurred while putting a test message on a queue or getting a message from a queue.

User response: Look up the reason code in the WebSphere MQ information center for more details.

ASN2269E  The stored procedure schema_stored_procedure_name in database database_name is not authorized to access the WebSphere MQ queue manager queue_manager_name because the operating system user ID user_ID, which is the DB2 fenced user of the instance that contains this database, is not a member of the operating system group for WebSphere MQ applications (usually mqm) at the host host_name.

Explanation: The fenced user of the database instance does not have the authority to access the WebSphere MQ environment or the specified queue manager.

User response: Ensure that the fenced user ID of the database instance is part of the operating system group assigned to WebSphere MQ (usually mqm). Read "2035 (07F3) (RC2035): MQRC_NOT_AUTHORIZED" in the WebSphere MQ information center for more details.

ASN2270E  The WebSphere MQ queue manager host_name-queue_manager_name has the version version_number that is older than the minimum supported version version_number.

Explanation: Q Replication and event publishing require a minimum version level of WebSphere MQ.

User response: Check the installation for the correct version.
version, or install an WebSphere MQ server at the minimum version level.

ASN2272W  The WebSphere MQ queue
host_name-queue_manager_name-
queue_name has an invalid definition and
cannot be opened. The WebSphere MQ
error code is error_code.

Explanation:  The specified queue is defined incorrectly.

User response:  Look up the reason code in the
WebSphere MQ information center for more details, fix
the problem, and then retry the action.

ASN2273W  The WebSphere MQ base queue
(BASE_Q) queue_name1 that is referenced
by the alias queue host_name-
queue_manager_name-queue_name2 does
not exist.

Explanation:  The WebSphere MQ alias queue
definition is inconsistent. Any alias queue used by Q
Replication or event publishing must be defined with
an existing base queue.

User response:  Check the parameter BASE_Q of the
alias queue for misspellings, and check if the specified
queue exists. If necessary, update the BASE_Q
parameter of the alias queue, or create a base queue
with the specified name. Ensure that the base queue
has the correct type and parameters as required by Q
Replication.

ASN2274W  The WebSphere MQ transmission queue
queue_name for the remote queue
host_name-queue_manager_name-
queue_name does not exist.

Explanation:  When a remote queue such as the Q
Capture send queue or Q Apply administration queue
is created, you use the XMITQ attribute to specify the
transmission queue that is used. No transmission queue
exists with the name that was specified with the
attribute XMITQ for the specified remote queue in the
same queue manager.

User response:  Check the attribute XMITQ of the
specified remote queue for misspellings, or create a
transmission queue for the specified remote queue.

ASN2275W  The maximum message size
(MAXMSGL) size1 of the WebSphere
MQ queue host_name-
queue_manager_name-queue_name is greater
than the maximum message size
(MAXMSGL) size2 of its queue manager
host_name-queue_manager_name.

Explanation:  The maximum message size
(MAXMSGL) of the specified queue must be less than
or equal to the maximum message size (MAXMSGL) of
the queue manager.

User response:  Reduce the maximum message size of
the queue or increase the maximum message size of the
queue manager.

ASN2276W  The maximum message size
(MAXMSGL) size of the WebSphere MQ
queue host_name-queue_manager_name-
queue_name that is used as the send
queue is greater than the maximum
message size (MAXMSGL) size of the
receive queue host_name-
queue_manager_name-queue_name.

Explanation:  The maximum message size
(MAXMSGL) of the send queue must be less than or
equal to the maximum message size (MAXMSGL) of
the receive queue.

User response:  Reduce the maximum message size of
the send queue or increase the maximum message size
of the receive queue.

ASN2277W  The WebSphere MQ queue
host_name-queue_manager_name-
queue_name cannot be used as a
Q_replication_queue_type because it is
neither a local queue nor an alias queue
that references a local queue.

Explanation:  The Q Capture administration queue and
restart queue must be local queues or alias queues that
reference a local queue.

User response:  Specify a local queue or an alias queue
that references a local queue.

ASN2278W  The WebSphere MQ queue
host_name-queue_manager_name-
queue_name cannot be used as a send
queue because it is not a local queue, a
remote queue, or an alias queue that
directly or indirectly references a local
or remote queue.

Explanation:  When you create or change a replication
queue map, the send queue that you specify must be a
local queue, remote queue, or an alias queue that
references a local or remote queue.

User response:  Specify a queue of a correct type.

ASN2279W  The maximum message size
(max_message_size) size of the queue
map queue_map_name is greater than the
maximum message size (MAXMSGL)
size of the WebSphere MQ queue
host_name-queue_manager_name-
queue_name that is used as the send
queue.
**Explanation:** The max_message_size attribute of the queue map, which specifies the maximum size of the buffer that is used for sending messages over a send queue, must not be larger than the WebSphere MQ maximum message length (MAXMSGL) attribute that is defined for the queue.

**User response:** Use the Replication Center or ASNCLP command-line program to decrease the max_message_size value for the queue map or increase the MAXMSGL attribute of the queue.

**Explanation:** The maximum message size of the replication queue map must be less than or equal to the maximum message size of the specified send queue.

**User response:** Reduce the max_message_size value of the replication queue map or increase the MAXMSGL value of the queue.

**Explanation:** When the Q Capture and Q Apply programs use the same queue manager, the send queue, receive queue, and administration queue that you specify for a replication queue map must be local queues or alias queues that directly or indirectly reference local queues.

**User response:** Specify a queue of a correct type.

**Explanation:** For a Q subscription that uses a load phase, a model queue needs to exist in the queue manager that the Q Apply program uses so that the Q Apply program can create a spill queue dynamically. By default, Q Apply expects the model queue to be named IBMQREP.SPILL.MODELQ.

**User response:** Check the name of the model queue for misspellings, create a new model queue, or specify no load phase for the Q subscription.

The following attributes are mandatory for the model queue:
- Message delivery sequence (MSGDLVSQ): FIFO
• Maximum queue depth (MAXDEPTH): 500000 or higher
• Maximum message size (MAXMSGL): 100000 or higher
• Definition type (DEFTYPE): PERMDYN

ASN2286W The value value1 of the parameter parameter_name of the WebSphere MQ model queue host_name-queue_manager_name-queue_name is incorrect or too low. The required value is value2.

Explanation: The model queue that is used to create spill queues for the Q Apply program needs to have the following parameter values:
• Message delivery sequence (MSGDLVSQ): FIFO
• Maximum queue depth (MAXDEPTH): 500000 or higher
• Maximum message size (MAXMSGL): 100000 or higher
• Definition type (DEFTYPE): PERMDYN

User response: Update the model queue parameter values, or specify a model queue that has the correct parameter values.

User response: Check the code pages of the source and target queue managers, and use the WebSphere MQ tools to check for configuration faults that can lead to the distortion of messages between the two queues.

ASN2288W The test message put on WebSphere MQ queue host1_queue_manager1_queue1 was received at the queue host2_queue_manager2_queue2, but the content has been distorted.

Explanation: The message flow between the first and the second queue does not work properly. Messages can be transmitted, but their contents are being distorted.

User response: Check the code pages of the source and target queue managers, and use the WebSphere MQ tools to check for configuration faults that can lead to the distortion of messages between the two queues.

ASN2289I The test message put on WebSphere MQ queue host_name1-queue_manager_name1-queue_name1 was received at the queue host_name2-queue_manager_name2-queue_name2 used as Q_replication_queue_type.

Explanation: The test message confirms that the message flow between the two queues is functioning properly.

User response: This message is for your information only. No action is required.

ASN2290I number tests failed.

Explanation: The WebSphere MQ environment for the current object was validated by several checks, and problems were found.

User response: For any tests that failed, examine the corresponding messages and correct the problem.

ASN2291E The OPERATOR CONSOLE option is not valid for the Replication Alert Monitor with monitor qualifier monitor_qualifier and monitor server server_name because the monitoring server is on Linux, UNIX, or Windows and not on z/OS.

Explanation: The OPERATOR CONSOLE option is used to send alerts to the z/OS console. This option is not valid for Linux, UNIX, or Windows operating systems.

User response: Send alerts to a contact or contact group for this monitor.
ASN2294E  The replication action action_name ended in error. The architecture level arch_level of the Q Capture server server for the Q Capture schema Q_capture_schema is not compatible with the Version 9 DB2 database for Linux, UNIX, or Windows where the Q Capture control tables are defined.

Explanation: In order to capture data and schema changes made to a Version 9 DB2 database on Linux, UNIX and Windows platforms, a Version 9 Q Capture server is required. Version 9 Q Capture server refers to both the architecture level of the control tables and the version of the Q Capture program instance running on the server. But based on the value of the architecture level obtained from the IBMQREP_CAPPARMS table, the control table structure is at a level prior to Version 9. This indicates there are inconsistencies in the data stored in the control tables or the control tables have not been migrated.

User response: Migrate your existing Q Capture control server to the current architecture level.

ASN2296E  The table schema_name cannot be used as a CCD table because it does not have the correct column structure. The column column_name is missing or has an invalid definition.

Explanation: CCD tables must have the following four columns:
- IBMSNAP_INTENTSEQ
- IBMSNAP_OPERATION
- IBMSNAP_COMMITSEQ
- IBMSNAP_LOGMARKER

User response: Choose an existing table with the correct CCD columns, or use the Replication Center or ASNCLP program to create a new CCD table.

ASN2297E  The table schema_name cannot be used as a user table because it has a CCD column structure. The column column_name indicates a CCD table structure.

Explanation: CCD tables cannot be used as user table targets for Q subscriptions.

User response: Choose a different existing table that does not contain any CCD columns, or use the Replication Center or ASNCLP program to create a new target table.

ASN2298E  The operation operation cannot be completed because the architecture level arch_level of the schema schema for the program program_name is older than the required architecture level arch_level.

Explanation: The specified operation requires a higher architecture level.

User response: Check if the provided schema is correctly specified for the requested operation. If not, choose another, appropriate schema for the provided program.

ASN2299E  The CCD table schema_name cannot be populated by Q Apply schema Q_apply_schema because the Q subscription Q_subscription_name in this schema already uses the CCD table as a target.

Explanation: CCD tables populated by Q Apply can be the target of only one Q subscription.

User response: Remove all but one Q subscription with the CCD table as a target.

ASN2300E  The CCD option option cannot be specified together with the value value for the Q subscription attribute attribute_name. Valid attribute values are value_list.

Explanation: The command attempts to create a Q subscription with a target table type of CCD and some of the specified parameter values are not compatible with this type of target.

User response: Specify a valid value for the Q subscription attribute.

ASN2301E  The Q subscription receive_queue_Q_subscription_name cannot be used to populate the SQL registration of the CCD table schema_name because the value value1 of the attribute attribute_name of the Q subscription does not match the value value2 of the SQL registration.

Explanation: The attributes for "complete" and "condensed" have to match between the Q subscription and the SQL registration.

User response: Update the attributes of the existing Q subscription or SQL registration.
The configuration of the Q Apply schema *Q_apply_schema* cannot be changed to populate registrations in the SQL Capture schema *capture_schema* because Q Apply is currently configured to populate registrations in the SQL Capture schema *capture_schema*.

**Explanation:** A Q Apply program (which is identified by a Q Apply schema) can only send changes to CCD tables that are registered in a single SQL Capture schema. The specified Q Apply schema is already being used to send changes to CCD tables in a SQL Capture schema. If you want to use the specified Q Apply schema for CCD tables in a different SQL Capture schema, change the SQL_CAP_SCHEMA value in the IBMQREP_APPLYPARMS table for the specified Q Apply program.

**User response:** Check the Q Apply schema for misspellings, check the configured SQL Capture schema in the Q Apply schema, or update the Q Apply schema. To update the schema, use the ALTER APPLY CONFIGURATION command in the ASNCNL command-line program or the Change Saved Parameters window for the Q Apply program in the Replication Center.

The configuration of the Q Apply schema *Q_apply_schema* is being changed from populating registrations in the SQL Capture schema *capture_schema* to populate registrations in the SQL Capture schema *capture_schema*. Existing, inactive Q subscriptions populating CCD target tables may become invalid.

**Explanation:** Q Apply has already been configured to use a different SQL capture schema. The update will overwrite the existing value and invalidate any existing Q Subscriptions with CCD targets.

**User response:** No action is necessary if the existing Q subscriptions can be invalidated. Otherwise, choose a different Q Apply schema.

The configuration of the Q Apply schema *Q_apply_schema* cannot be changed from populating registrations in the SQL Capture schema *capture_schema* to populate registrations in the SQL Capture schema *capture_schema*. There are active Q Subscriptions populating CCD target tables in this Q Apply schema.

**Explanation:** Q Apply has already been configured to use a different SQL capture schema. The update will overwrite the existing value and invalidate any existing Q Subscriptions with CCD targets.

**User response:** Deactivate the Q Subscriptions, or use a different Q Apply schema.

The Q Apply schema *Q_apply_schema* does not contain a Q subscription that uses the provided CCD table *schema_name* as a target table.

**Explanation:** A Q subscription must exist for this CCD table before it can be registered as a source populated by Q Replication.

**User response:** Check the table name for misspellings, and verify that the provided table is a target table for a Q Subscription in the provided Q Apply schema.

The subscription member cannot be added to the subscription set because the existing members in this set are using registrations that are not populated by a Q Apply schema, and the new member is using a registration that is populated by the Q Apply schema *Q_apply_schema*.

**Explanation:** A subscription set can only contain member with registrations that are populated by a Q Apply schema, or members with registrations that are not populated by a Q Apply schema.

**User response:** Choose another subscription set that is empty or that contains compatible members.

The subscription member cannot be added to the subscription set because the existing members in this set are using registrations that are populated by the Q Apply schema *Q_apply_schema*, and the new member is using a registration that is not populated by a Q Apply schema.

**Explanation:** A subscription set can only contain member with registrations that are populated by a Q Apply schema, or members with registrations that are not populated by a Q Apply schema.

**User response:** Choose another subscription set that is empty or that contains compatible members.

The subscription member cannot be added to the subscription set because the existing members in this set are using registrations which are populated by the Q Apply schema *schema*, and the new member is using a registration that is populated by the Q Apply schema *Q_apply_schema*.

**Explanation:** A subscription set can only contain member with registrations that are populated by a Q Apply schema if the Q Apply schema and the receive queue are the same for all registrations of the members.
**User response:** Choose another subscription set that is empty or that contains compatible members.

**Explanation:** A subscription set can only contain members with registrations that are populated by a Q Apply schema if the Q Apply schema and the receive queue are the same for all registrations of the members.

**User response:** Choose another subscription set that is empty or that contains compatible members.

**Explanation:** If the Q subscription populating a CCD table registration in a SQL Capture schema is dropped, the registration will no longer receive updates from Q Apply.

**User response:** No action is required.

**Explanation:** Replication supports tables with EDITPROC definitions, but the DB2 subsystem that contains the tables must be upgraded to the specified APAR. With the APAR, DB2 invokes the edit routine to transform the row back to its original state before giving the data to the replication log reader program.

**User response:** Upgrade the DB2 instance that contains the table to the specified APAR.

**Explanation:** Replication supports before-image columns for all data types except for large object (LOB) data types.

**User response:** Remove this column from the before-image column selection.

**Explanation:** The combined length of the column name and before-image prefix must be within the database limits for column-name length.
User response: Shorten the before-image prefix.

ASN2318E  The column column_name1 cannot be selected as a replication target column because it is used to hold the before-image values of column column_name2.

Explanation: Before-image columns cannot be target columns for replication.

User response: Either change the value of the before-image column prefix or select a different before-image column for the specified after-image column.

ASN2319W  The before-image columns in the target table table_owner.table_name do not have the same before-image prefix. You will not be able to register this table with the SQL Replication Apply program for a three-tier distribution.

Explanation: Before-image columns in a CCD table that is used as the middle tier in three-tier replication must use the same single character for the before-image prefix. The before-image columns in the specified table do not have the same prefix. The table cannot be used in a three-tier architecture.

User response: Modify the before-image prefix if you intend to use this table in three-tier replication architecture.

ASN2320E  The column column_name1 requested to be a before-image column for the column column_name2 does not exist in the target table.

Explanation: To be used as a before-image column, a column must first exist in the target table.

User response: Specify a column name that exists in the target table.

ASN2321E  The column column_name1 with data type data_type cannot be used as a before-image column for column column_name2 with data type data_type because their data types are not compatible.

Explanation: The data types for an after-image column and its corresponding before-image column must be compatible.

User response: Make sure that you specify the correct column names.

ASN2322E  The table table_owner.table_name cannot be registered as an external CCD table because the before-image columns do not have the same prefix.

Explanation: The before-image columns in a CCD table must share a common prefix in order to register the table as an external CCD. The before-image columns in the specified table do not share a common prefix.

User response: To use this CCD table as a SQL Replication source, redefine the Q subscription so that the before-image columns for the table share a common prefix, then perform the action again.

ASN2323E  Before values cannot be sent for the column column_name in the table table_owner.table_name because the column is not part of the publication.

Explanation: You have requested that the Q Capture program send before values for the specified column, but this column was not included in the publication.

User response: Either select the column to be part of the publication or do not request before values for the column.

ASN2324I  The default before-image prefix, X, resulted in conflicting column names in the target table table_owner.table_name. A different before-image prefix, prefix, will be used to generate unique before-image column names.

Explanation: The columns in the table should be unique. However, the default before-image prefix resulted in conflicting names. The specified prefix will be used instead.

User response: This message is for your information only. No action is required.

ASN2325E  The Q Apply schema schema cannot be used to populate CCD tables that are registered for SQL Replication because the SQL Capture schema has not been specified.

Explanation: You must first configure the Q Apply program to use a specific SQL Capture schema for the CCD tables that it populates before you register the tables as sources for SQL Replication.

User response: Update the Q Apply schema using the ALTER CONFIGURATION APPLY command in the ASNCLP command-line program, or by using the Change Saved Parameters window for the Q Apply program in the Replication Center.
The SQL registration for the CCD target table 

```
table_owner.table_name
```

of the Q subscription

```
receive_queue_name.q_subscription_name
```
cannot be created because this Q subscription uses the Q Capture schema 

```
schema
```
and the Q Apply schema 

```
schema
```
. These schemas are different from the Q Capture schema 

```
schema
```
and the Q Apply schema 

```
schema
```
that are used by other Q subscriptions that were selected.

**Explanation:** Only Q subscriptions that are replicated from the same Q Capture schema to the same Q Apply schema can be registered at the same time.

**User response:** Exclude the specified Q subscription from the group of Q subscriptions that you are registering.

The existing SQL registration of the CCD table 

```
table_owner.table_name
```
in the SQL Capture schema 

```
schema
```
cannot be modified to be used by the Q Apply program because the value 

```
value1
```
for the property 

```
property1
```
in this registration conflicts with the value 

```
value2
```
for the property 

```
property2
```
in the Q subscription 

```
receive_queue_name.q_subscription_name
```
.

**Explanation:** The SQL registration and Q subscription need to have the same values for the CCD table properties CONDENSED and COMPLETE. The values can be either ON or OFF. The matching properties are required in order to change an existing registration to be used by the Q Apply program.

**User response:** Change the Q subscription so that the CCD table properties CONDENSED and COMPLETE match the properties of the SQL registration.

The Capture schema 

```
schema
```
do not exist at the database 

```
database_alias
```
.

**Explanation:** The specified Capture schema could not be found at this database.

**User response:** Check the name for misspellings and correct the name of the Capture schema.

The Capture schema 

```
schema
```
does not exist at the database 

```
database_name
```
.

**Explanation:** The Capture schema was set up for federated data sources and cannot be used for DB2 sources.

**User response:** Choose another Capture schema that is not set up for federated data sources.

The Capture schema 

```
schema
```
has an architecture level of 

```
level1
```
that is older than the required architecture level 

```
level2
```
.

**Explanation:** The Capture schema is too old.

**User response:** Choose a different Capture schema, or migrate the Capture schema to the required architecture level.

The length 

```
length1
```
of the value 

```
schema
```
for the Capture schema is higher than the maximum supported length 

```
length2
```
.

**Explanation:** The specified Capture schema has an invalid length.

**User response:** Reduce the length of the Capture schema and rerun the action.

The length 

```
length1
```
of the value 

```
schema
```
for the Capture schema is defined in the federated database 

```
database_name
```
and cannot be used to register CCD tables that are targets for Q Replication.

**Explanation:** The Capture schema was set up for federated data sources and cannot be used for DB2 sources.

**User response:** Choose another Capture schema that is not set up for federated data sources.

The Capture schema 

```
schema
```
that is managed by the Q Apply schema 

```
schema
```
cannot be modified to the new schema 

```
schema2
```
because an active Q subscription, 

```
receive_queue_name.q_subscription_name
```
is managing the SQL registration for the target CCD table 

```
table_owner.table_name
```
in the existing schema.

**Explanation:** If the Capture schema were changed, it would invalidate the active Q subscription.

**User response:** Deactivate the Q subscription and retry the action.

The Capture schema 

```
schema
```
that is managed by the Q Apply schema 

```
schema
```
will be modified to the new schema 

```
schema2
```
The existing and inactive Q subscription 

```
receive_queue_name.q_subscription_name
```
may become invalid.

**Explanation:** The requested update of the Capture schema could invalidate Q subscriptions.

**User response:** No user action is necessary.

The SQL registration for the CCD table 

```
table_owner.table_name
```
will be modified so that it will no longer be populated by the Q subscription 

```
receive_queue_name.q_subscription_name
```
.

**Explanation:** A SQL registration can receive updates only from one Q subscription. If another Q subscription is selected to send updates, the previous one will no longer be able to update the target as well.

**User response:** Choose one of the following options:
If you would like the SQL registration to be populated by the specified Q subscription, then no action is necessary. You can execute the generated script.

If you would like to continue using the original Q subscription to populate the SQL registration, then do not execute the generated script and cancel the action.

**ASN2335E**
The SQL registration for the CCD table `table_owner.table_name` cannot be found in the SQL Capture schema `schema` at the database `database_alias`.

**Explanation:** The SQL Capture schema at this database does not contain the specified SQL registration.

**User response:** Check the name of the CCD table for which the registration was specified, and retry the action.

ASN2336E  
A SQL registration for the CCD table `table_owner.table_name` already exists in the SQL Capture schema `schema` at the database `database_alias`.

**Explanation:** A SQL registration was specified but another registration already exists with the same name in the SQL Capture schema on this database.

**User response:** Check the name of the CCD table for which the registration was specified, and retry the action.

ASN2337W  
The SQL registration for the CCD table `table_owner.table_name` will become unpopulated when the Q subscription is dropped.

**Explanation:** When the Q subscription that is populating this CCD table is dropped, the SQL registration of the CCD table will no longer receive data from the source.

**User response:** No user action necessary.

ASN2338W  
The SQL registration for the CCD table `table_owner.table_name` will be dropped. Ensure that the SQL subscription-set member for the target table `table_owner.table_name` at the SQL Apply control server `database Alias` in the SQL subscription set `set_name` that uses the Apply qualifier `apply_qualifier` has been deactivated.

**Explanation:** When this SQL registration is dropped, the subscription-set member that receives data from the registration should be inactive to avoid data loss.

**User response:** Check if the specified member has been deactivated.

ASN2339W  
The SQL registration for the CCD table `table_owner.table_name` will be updated to be populated by the Q subscription `receive_queue_name.q_subscription_name`. Ensure that the subscription-set member for the target table `table_owner.table_name` at the SQL Apply control server `database Alias` in the SQL subscription set `set_name` that uses the Apply qualifier `apply_qualifier` has been deactivated.

**Explanation:** When the SQL registration is updated, the subscription-set member that receives data from the registration should be inactive to avoid data loss.

**User response:** Check if the specified member has been deactivated.

ASN2340E  
The subscription-set member cannot be added to the subscription set because the existing members in this set are using source registrations that are not populated by a Q Apply program, and the new member is using a source registration that is populated by the Q Apply schema `schema`.

**Explanation:** A subscription set can only contain members with source registrations that are populated by one Q Apply program using the same receive queue, or that are not populated by Q Apply.

**User response:** Choose another subscription set that is empty or contains compatible members.

ASN2341E  
The subscription-set member cannot be added to the subscription set because the existing members in this set are using source registrations that are populated by Q Apply schema `schema` and the new member is using a source registration this is not populated by a Q Apply program.

**Explanation:** A subscription set can only contain members with source registrations that are populated by one Q Apply program using the same receive queue, or that are not populated by Q Apply.

**User response:** Choose another subscription set that is empty or contains compatible members.
ASN2342E  The subscription-set member cannot be added to the subscription set because the existing members in this set are using source registrations that are populated by Q Apply schema schema using the receive queue receive_queue, and the new member is using a source registration this is populated by Q Apply schema schema2 using the receive queue receive_queue.

Explanation:  A subscription set can only contain members with source registrations that are populated by one Q Apply program from the same receive queue.

User response:  Choose another subscription set that is empty or contains compatible members.

ASN2343E  The SQL registration for the target CCD table_owner.table_name cannot be modified to be managed by the Q Apply program because the value value of the property property is unsupported.

Explanation:  Q Apply can only manage specific SQL registrations. For details about the restrictions, see "Creating a three-tier data distribution configuration (Q Replication to SQL Replication)" in the IBM Information Management Software for z/OS Solutions Information Center or DB2 Information Center.

User response:  Update the SQL registrations, or choose a different SQL registration in a different SQL Capture schema.

ASN2344I  The target CCD table_owner.table_name for this Q subscription has an existing SQL registration in the SQL Capture schema schema, and the Q Apply program is configured to manage SQL registrations in this schema. If this Q subscription becomes active, the Q Apply program will manage the target CCD table as a source for SQL Replication.

Explanation:  The target CCD is already registered and Q Apply has been configured correctly, so the target CCD will automatically become a source for SQL Replication.

User response:  This message is for your information only. No action is required.

ASN2345E  The resulting data type data_type1 of the expression expression is not compatible with the data type data_type2 of the mapped target column column_name.

Explanation:  In order to replicate an expression to a target column, the Q Apply program requires the resulting data type of the expression to match the data type of the target column. The data types of the

expression and the target column to which it is mapped do not match.

User response:  Modify your expression so that its resulting data type matches the data type of the specified target column, or choose another column in the target that has the same data type as the expression.

ASN2346E  The column column_name that is specified in the expression expression does not exist in the source table table_owner.table_name.

Explanation:  A column must exist in the source table to be part of an expression, and the specified column could not be found.

User response:  Specify a different column that exists in the source table or remove the column from the expression.

ASN2347E  The expression expression cannot be mapped to the target column column_name because the expression can have a null value and the target column is defined with a NOT NULL attribute.

Explanation:  The null characteristics of the expression and the target column must match. None of the source columns chosen in the expression is defined with a NOT NULL attribute, so the resulting value of the expression can be null. The target column is defined as NOT NULL.

User response:  Include at least one source column that is defined as NOT NULL in the expression, or map the expression to another column in the target that can hold null values.

ASN2348E  The column column_name in the target table table_owner.table_name cannot be directly mapped to a source column because the specified target column already maps to an expression expression.

Explanation:  A target column cannot be mapped to both a source column and an expression.

User response:  Choose a different target column for the mapping.

ASN2349E  The column column_name in the target table table_owner.table_name cannot be mapped to an expression expression because the target column is already mapped directly to a source column column_name.

Explanation:  A target column cannot be mapped to both an expression and a source column.
User response: Choose a different target column for the mapping.

ASN2350E The Replication administration tool is running at a DB2 Version 8 level. The tool cannot be used to administer a DB2 Version 9 server for Q Replication.

Explanation: You cannot use a pre-Version 9 Replication administration tool to administer a DB2 Version 9 server because of the changes in the structure of the replication control tables and the replication architecture level.

User response: Migrate the DB2 client where the replication administration tool is running to Version 9.

ASN2351E The CCD table schema.name cannot be defined as condensed because the database object name of type typename enforces uniqueness of the columns column_names, which are not part of the replication key.

Explanation: The Apply program will fail when trying to apply changes to the target table if this table contains a primary key, unique constraint, or unique index that enforces the uniqueness of columns that are not part of the replication key. This is usually the case if there is a second unique constraint or index defined on this table. Note: You can have secondary unique indexes on CCD columns, for example, IBMSSNAP_INTENTSEQ and IBMSSNAP_COMMITSEQ.

User response: Remove the unique constraint or index, or consider generating a new CCD target table.

ASN2353E On z/OS, you cannot use the Replication Center to perform operational tasks on replication and event publishing programs such as starting, stopping, or reinitializing.

Explanation: The Replication Center function to run commands that operate on replication or publishing programs on z/OS has been deprecated.

User response: To start the programs, use JCL or a started task. To issue commands to running replication or publishing programs such as stop or reinitialize, use the MODIFY command.

ASN2355E The command command cannot be used with a Classic replication source.

Explanation: A Classic replication server was set as the capture server in a prior SET SERVER CAPTURE command. The specified command is not valid for Classic replication sources. The following commands are valid for a Classic source:
- CREATE REPLQMAP
- ALTER REPLQMAP
- DROP REPLQMAP
- CREATE QSUB
- ALTER QSUB
- DROP QSUB
- LOADDONE
- START QSUB
- STOP QSUB
- LIST
- ALTER CAPPARMS

User response: Take one of the following actions:
- Issue the environment command SET SERVER CAPTURE to set the Capture server to another server where the command is supported.
- Use one of the supported commands for Classic sources.

ASN2356W A default schema of ASN is assigned because the capture server is a Classic replication server. The schema that was provided is not used.

Explanation: A Classic replication server was set as the capture server in a prior SET SERVER CAPTURE command. Only one set of Classic capture control tables exists on the server. These tables have a schema of ASN and the ASNCLP program always uses a default schema of ASN.

User response: This message is for your information only. No action is necessary.

ASN2357E The option option cannot be used with a Classic replication source.

Explanation: A Classic replication server was set as the capture server in a prior SET SERVER CAPTURE command. The specified option is not valid for Classic sources. The following options are not supported:
- SUPPRESS DELETES
- SEARCH CONDITION
- TRGCOLS EXCLUDE (for new targets)
- LOAD TYPE with values 1, 2, or 3
User response: Take one of the following actions:

- Issue the environment command SET SERVER CAPTURE to set the Capture server to another server where the option is supported.
- Specify a different option for Classic sources. For LOAD TYPE, the supported options are 0 (no load) or 4 (load from Classic source).

Explanation: An error occurred during processing of the DROP QSUB command. Some of the Q subscriptions were deleted only on the Classic server and some were not deleted at either server. The Q subscriptions that were deleted only on the Classic server still exist on the Q Apply server and must be dropped manually.

User response: Use the DROP QSUB command in the ASNCLP program to delete the Q subscriptions that were only deleted on the Classic server and the Q subscriptions that were not deleted on either server.

Explanation: For Classic replication, all columns in the source table must be selected for replication.

User response: Specify all columns in the source table to take part in the Q subscription and issue the CREATE QSUB command again.

Explanation: The Q Apply control tables need to be at a Version 9 architecture level in order to use a Classic replication server as a source. The specified Q Apply schema is at pre-V9 architecture level.

User response: Take one of the following actions:

- Migrate the Q Apply control tables to Version 9.
- Create a new set of Q Apply control tables with Version 9 architecture.

Explanation: The control tables need to exist prior to performing the specified action but were not found. The control tables are created when the Classic replication product is installed.

User response: See the IBM InfoSphere Classic Information Center for details on how to configure a Classic replication server, and complete the steps before defining or using any replication objects.
ASN2364E  The action action_name ended in error because the IBMQREP_CAPPARMS table is empty.

Explanation: The ASNCLP program requires a row in the IBMQREP_CAPPARMS control table before it can define objects for replication. No row was found in the table.

User response: Please run the ASNCLP command ALTER CAPPARMS to populate the table with a row prior to performing this action.

ASN2365I  The Q Apply schema has Q subscriptions or replication queue maps for which the source is a Classic replication server. These definitions are not displayed in the list shown here.

Explanation: Q subscriptions or replication queue maps for which the source is a Classic replication server are not displayed by the Replication Center.

User response: This message is for your information only. No action is required.

ASN2366E  The SET command command_name cannot be used with an Oracle source server.

Explanation: The specified command is not supported for Oracle sources.

User response: See the ASNCLP documentation in the DB2 Information Center for supported commands for Oracle sources.

ASN2367E  The command could not be processed. Oracle servers are not supported as replication targets unless an intermediate federated server is installed and configured.

Explanation: To replicate data to an Oracle target, you must configure a Q Apply program to run within a DB2 federated instance, which requires InfoSphere Federation Server.

User response: Install and configure InfoSphere Federation Server and then use the SET SERVER command to specify a Q Apply server that is on a federated DB2 instance.

ASN2368E  The CREATE QSUB command does not support the values B or P for the SUBTYPE keyword if the source is Oracle.

Explanation: Bidirectional (type B) and peer-to-peer (type P) replication are not supported for native Oracle sources. The only allowed Q subscription type is unidirectional (type U).

User response: For the SUBTYPE keyword, specify the value U and reissue the command.

ASN2369E  The load type option option cannot be used with an Oracle source.

Explanation: An Oracle server was specified as the Q Capture server in a prior SET SERVER command. For Oracle servers, the values 1, 2, 3, and 4 are not supported for the LOAD TYPE keyword.

User response: Take one of the following actions:
  • Issue the SET SERVER command and specify another Q Capture server where this option is supported.
  • For an Oracle source, specify the values 0 (no load) or 5 (Oracle load) for the LOAD TYPE keyword.

ASN2370E  The action action ended in error because the architecture level of the Q Apply control tables is level and the source is an Oracle server.

Explanation: The Q Apply control tables need to be at a architecture level of 0905 (Version 9.5) or above to use an Oracle server as a source. The specified Q Apply schema is at a previous architecture level.

User response: Take one of the following actions:
  • Migrate the Q Apply control tables to the required architecture level.
  • Create a new set of Q Apply control tables under the required architecture level and use that schema for the specified action.

ASN2371E  The table table_name cannot be used as a Q Replication source because table-level supplemental logging is not set.

Explanation: Table-level supplemental logging should be set to ON so that Oracle maintains the required log data for replication.

User response: Issue the ALTER command to alter the source table to enable table-level supplemental logging.

ASN2372E  The database database_name cannot be used as a Q Replication source because database-wide supplemental logging is not enabled.

Explanation: The Q Capture program uses Oracle LogMiner, which requires minimal supplemental logging to be enabled. This function logs the minimal amount of information needed for Oracle LogMiner to identify, group, and merge the redo operations from DML changes. Minimal supplemental logging ensures that Oracle LogMiner and Q Capture have sufficient information to support chained rows and various storage arrangements, such as cluster tables.

User response: Issue the ALTER command to alter the
The database that was specified as a Q Capture server cannot be used as a source. Q Replication supports only Oracle version 10g and above.

**Explanation:** To replicate data from an Oracle source, you must specify a source database that is at Oracle version 10g or later as a Q Capture server.

**User response:** Specify a database that is at a supported level and retry the command.

The XML keyword was provided in the CREATE PUB command, but the publishing queue map that was specified for the publication uses a DELIMITED message format.

**Explanation:** The message format must match between the publication and the publishing queue map that it uses.

**User response:** Take one of the following actions:
- If you want a publication with XML message format, specify a publishing queue map that uses XML format.
- If you want a publication with DELIMITED message format, change the message format for the publication to DELIMITED.

The publishing queue map queue_map_name cannot be promoted because it does not exist within the specified Q Capture schema on the specified Q Capture server.

**Explanation:** Before you can promote an object, the object must exist within the schema that you specify. A replication queue map with the specified name does not exist within this schema.

**User response:** Make sure that the correct replication queue map, schema, and server are specified and issue the command again.

The replication queue map queue_map_name cannot be promoted because it does not exist within the Q Capture schema Q_Capture_schema on the specified Q Capture server or within the Q Apply schema Q_Apply_schema on the specified Q Apply server.

**Explanation:** Before you can promote a replication queue map, the queue map must exist within the Q Capture and Q Apply schemas that you specify. A replication queue map with the specified name does not exist within these schemas.

**User response:** Make sure that the correct replication queue map, schema, and server are specified and issue the command again.

The command is not supported because the target database is accessed through a federated server.

**Explanation:** The specified command is not supported for federated targets.

**User response:** Specify a server where the command is supported.

The operation operation for program program_name has started for schema or qualifier name on database or subsystem name at host host_name at timestamp.

**Explanation:** The requested operation was initiated.

**User response:** This message is for your information only. No action is required.

The operation operation ended successfully at timestamp.

**Explanation:** A replication or event publishing program successfully carried out the described operation.

**User response:** This message is for your information only. No action is required.

The program status is status. Additional information: information.

**Explanation:** This message describes the status of a replication or event publishing program.

**User response:** This message is for your information only. No action is required.

The operation operation ended in error because the program program_name is not active.

**Explanation:** The program that was prompted to carry out the described operation was not running, so the
operation could not be executed.

User response: Start the program, and then request the operation again.

ASN2385I  The detailed status of the active program is detailed_status.

Explanation: The requested status information describes the current state of the program in detail.

User response: This message is for your information only. No action is required.

ASN2386I  The program parameter parameter has a value of value and was defined by origin.

Explanation: The message reflects the parameter value that the program is currently using. This value might differ from the value that is saved in the control tables. When a program stops and restarts, it uses saved values unless you override the saved values at startup or while the program is running.

User response: This message is for your information only. No action is required.

ASN2387E  The operation operation cannot be executed because the access method method is not available on the database or subsystem name at host host. Reason: reason. Suggested action: action. Perform the suggested action to enable this access method for future use.

Explanation: The requested operation requires the stated access method to be available.

User response: Perform the suggested action and retry the operation.

ASN2388E  The operation operation was terminated at timestamp because the timeout of number seconds was exceeded.

Explanation: A replication or event publishing program could not carry out the requested operation within the specified time.

User response: Check the status of the program and retry the operation.

ASN2389E  The operation operation cannot be executed because a prerequisite setup step is missing on the database or subsystem name at host host. Reason: reason. Suggested action: action. Perform the suggested action to enable this operation for future use.

Explanation: The requested operation requires a prerequisite setup step to be completed.

User response: Perform the suggested action and retry the operation.

ASN2390E  An error occurred during communication with the active program program_name. Error message: message.

Response: response.

Explanation: An internal error occurred during communication with the replication program.

User response: Check the DB2 Information Center for details about any required changes to your replication setup, and retry the action.

ASN2391E  The operation operation for the program program_name is not supported for database_type databases.

Explanation: Some operations by replication programs are not supported on some database types.

User response: Check the replication and event publishing documentation in the DB2 Information Center to see which operations are supported.

ASN2392W  The DB2 instance could not be determined. The DB2 instance name of instance_name is used as a default to perform the requested operation on the database database_name. To support other DB2 instance names for this operation, perform the suggested action action.

Explanation: The DB2 instance name is required to perform the operation, but the instance name cannot be determined. A default instance name is used.

User response: If the name of the DB2 instance is the same as the default, no action is necessary. Otherwise perform the suggested action.

ASN2394W  The recommended access method method is not available to perform the operation operation on the database or subsystem name at host host_name. Reason: reason. Suggested action action. Perform the suggested action in order to make the recommended access method available for future use.

Explanation: A recommended method of accessing the database or subsystem was not available. An alternative method will be tried to perform the requested operation.

User response: Perform the suggested action and retry the operation.
The program `program_name` could not be started because an instance of this program with the same schema or qualifier is already running on the database or subsystem `name`.

**Explanation:** Only one program instance with a given schema or qualifier can run within a database.

**User response:** Either stop the running program that has the same schema or qualifier, or drop and recreate the schema or qualifier for the second program.

The operation `operation` ended in error because the program returned one or more error messages: `error_messages`.

**Explanation:** The program received the request to perform an operation, but returned an error.

**User response:** Check the error message, correct the problem, and retry the operation.

The replication queue map cannot be created because the `MAXAGENTS_CORRELID` value (`number_agents`) is greater than the `NUM_APPLY_AGENTS` value (`total_agents`).

**Explanation:** The total number of apply agents is specified by the `NUM_APPLY_AGENTS` value in the `IBMQREP_RECVQUEUES` table for a receive queue and replication queue map. The `MAXAGENTS_CORRELID` value specifies the number of transactions to apply in parallel from the same job name. This setting allows the Q Apply program to limit parallelism during batch workloads to prevent lock contention.

**User response:** Set the `MAXAGENTS_CORRELID` value to be lower than the `NUM_APPLY_AGENTS` value.

The replication queue map could not be updated because the `MAXAGENTS_CORRELID` value (`number_agents`) is greater than the `NUM_APPLY_AGENTS` value (`total_agents`).

**Explanation:** The total number of apply agents is specified by the `NUM_APPLY_AGENTS` value in the `IBMQREP_RECVQUEUES` table for a receive queue and replication queue map. The `MAXAGENTS_CORRELID` value specifies the number of transactions to apply in parallel from the same job name. This setting allows the Q Apply program to limit parallelism during batch workloads to prevent lock contention.

**User response:** Set the `MAXAGENTS_CORRELID` value lower than the `NUM_APPLY_AGENTS` value.

The table `capture_schema.IBMQREP_IGNTRAN` table does not have a row. Your configuration requires that a row exists and that the row contains the authorization ID for the Q Apply program.

**Explanation:** You are using the peer-to-peer configuration with value-based conflict detection. This configuration requires that the `IBMQREP_IGNTRAN` table be populated with the authorization ID of the Q Apply program so that the Q Capture program can ignore the transactions and avoid recursion.

**User response:** Specify the `ALTER SERVER ADD IGNORE TRANSACTIONS` command.

A row with the specified information already exists in the `capture_schema.IBMQREP_IGNTRAN` table. An SQL script to insert the ignore-transactions specification is not generated.

**Explanation:** The command did not generate a SQL script because a row already exists.

**User response:** This message is for your information only. No action is required.

A row with the specified information does not exist in the `capture_schema.IBMQREP_IGNTRAN` table. An SQL script to delete the ignore-transactions specification is not generated.

**Explanation:** The command did not generate a SQL script because a row does not exist in the `IBMQREP_IGNTRAN` table.

**User response:** This message is for your information only. No action is required.

The command `command` is only supported for Q Replication and event publishing.

**Explanation:** The specified command is not applicable to SQL Replication.

**User response:** Specify the environment by using the `ASNCLP SESSION SET TO Q REPLICATION` command before using this command.

The specified source table `owner.table_name` does not have any subscriptions or publications in the capture schema `capture_schema`. The `ALTER ADD COLUMN` command did not add a signal into the
**ASN2404E • ASN2410E**

**IBMREP_SIGNAL table.**

**Explanation:** The command failed because subscriptions or publications for the specified source table do not exist.

**User response:** Check the source table name and reissue the command.

**ASN2404E** The column *column_name* is already subscribed for the subscription or publication *sub_name* for the provided source table *owner.table_name*.

**Explanation:** Because the column is already subscribed for the subscription or publication, the column cannot be added.

**User response:** If the wrong table or column name was specified, correct the statement and reissue the command. Otherwise, no action is required.

**ASN2405W** The referential integrity constraints *constraint_name* do not match for the source table *owner.src_table_name* and target table *owner.tgt_table_name*.

**Explanation:** The referential integrity constraints for the source and target tables for bidirectional and peer-to-peer subscriptions must exactly match. Because the constraints do not match for the source and target tables, you might have experience problems with the Q Apply program.

**User response:** If the mismatched constraints will not cause problems while running the Q Apply program, no action is necessary. Otherwise, ensure that the unique constraints on the source and target tables match before running the replication programs.

**ASN2406W** The check constraints *constraint_name* do not match for the source table *owner.src_table_name* and target table *owner.tgt_table_name*.

**Explanation:** The check constraints for the source and target tables for bidirectional and peer-to-peer subscriptions must exactly match. Because the constraints do not match for the source and target tables, you might experience problems with the Q Apply program.

**User response:** If the mismatched constraints will not cause problems while running the Q Apply program, no action is necessary. Otherwise, ensure that the check constraints on the source and target tables match before running the replication programs. Scripts were generated because you set enforcement of constraints matching to 'no.'

**ASN2407W** The unique constraints *constraint_name* do not match for the source table *owner.src_table_name* and target table *owner.tgt_table_name*.

**Explanation:** The unique constraints for the source and target tables for bidirectional and peer-to-peer subscriptions must exactly match. Because the constraints do not match for the source and target tables, you might have experience problems with the Q Apply program.

**User response:** If the mismatched constraints will not cause problems while running the Q Apply program, no action is necessary. Otherwise, ensure that the unique constraints on the source and target tables match before running the replication programs.

**ASN2408W** The target member *target_owner-target_table* in the subscription set *subs_set_name* is an external consistent-change data (CCD) table. This table type does not require a join of the changed-data (CD) and unit-of-work (UOW) tables to populate the LOGMARKER column. You specified a non-zero commit count value for the subscription set. If you use this CCD table as a source in a three-tier distribution and the block factor is non-zero, data loss problems might result while running the Apply program.

**Explanation:** Because the CCD target type is '9,' the Apply program will not perform a join of the CD and UOW tables to get a value for the LOGMARKER column. You specified a non-zero value for the commit count when you created the subscription set. If this CCD table is used as a source in the second tier, you should specify zero for the blocking factor or MAX_SYNCH_MINUTES column in the IBMSNAP_SUBS_SET table for the subscription set.

**User response:** Specify zero for the blocking factor or the MAX_SYNCH_MINUTES column in the IBMSNAP_SUBS_SET table.

**ASN2410E** The keyword GENERATE SQL FOR EXISTING is not supported in SQL Replication.

**Explanation:** The GENERATE SQL FOR EXISTING option causes the SET RUN SCRIPT command to ignore certain errors when generating SQL script. This option is supported only in Q Replication. However, the current session is SQL Replication.

**User response:** Remove the GENERATE SQL FOR EXISTING keyword from the input file.
ASN2411W  The object object_name of type object_type already exists under the specified Q Capture schema. A script to create the object has been generated regardless, because the option to ignore errors while generating the script was chosen.

Explanation: Data already exists in the Q Capture control tables for the publication or publication queue map with this name. The SQL for creating the object has been generated regardless, because the GENERATE SQL FOR EXISTING YES option was set in the SET RUN SCRIPT LATER command. Running this generated SQL against the given control tables will cause SQL errors.

User response: No action is needed.

ASN2412W  The object object_name of type object_type already exists under the specified Q Capture schema and Q Apply schema. A script to create the object has been generated regardless, because the option to ignore errors while generating the script was chosen.

Explanation: Data already exists in the control tables for Q Capture or Q Apply for the subscription or replication queue map with this name. The SQL for creating the object has been generated regardless, because the GENERATE SQL FOR EXISTING YES option was set in the SET RUN SCRIPT LATER command. Running this generated SQL against the given control tables will cause SQL errors.

User response: No action is needed.

ASN2413W  The database object object_name of type object_type already exists at the server server_alias. A script to create the object has been generated regardless, because the option to ignore errors while generating the script was chosen.

Explanation: The table, tablespace, or index already exists in the database. The SQL for creating this object has been generated regardless, because the GENERATE SQL FOR EXISTING YES option was set in the SET RUN SCRIPT LATER command. Running this generated SQL against the given database will cause SQL errors.

User response: No action is needed.

ASN2414W  The value of the parameter_name parameter of the WebSphere MQ model queue host_name-queue_manager_name-queue_name is too low. The value is set to value1 but the required value must be at least value2.

Explanation: The model queue for the spill queue for the Q Apply program needs to have the following parameter values:
- Maximum queue depth (MAXDEPTH): 500000 or higher
- Maximum message size (MAXMSGL): 100000 or higher

User response: Update the model queue parameter values, or specify a model queue that has the correct parameter values.

ASN2415E  The load type load_type is not valid for the Q subscription name because the same target table table_owner.table_name is participating in another Q subscription name that has a conflicting load type of load_type.

Explanation: Either the wrong target table name was specified for the Q subscription, or the specified load type is incorrect. Target tables that are populated from multiple source tables (this process is often called data consolidation) require certain load types. If the target table name is correct, then at least one existing Q subscription has a load type that replaces all contents in the table (type 4 or 5). If two or more Q subscriptions were to replace data in the target table, a loss of data could occur.

User response: Take one of the following actions:
- Correct the target table name if the wrong one was specified.
- Change the selection of the load type to use select and load with insert (104) or select and import with insert (105).

ASN2416E  The load type load_type is supported only for Q subscriptions where the Q Capture server is a Classic server. The command failed.

Explanation: Load types 4 (Select and load with replace), 104 (Select and load with insert), 5 (Select and import with replace), and 105 (Select and import with insert) are only supported where the source is a Classic server.

User response: Choose a different load option and rerun the command.

ASN2417E  Use the replication administration tools to start the Q subscription name.

Explanation: The target table that was specified for the Q subscription is the same as the target table for one or more other Q subscriptions. The Q Apply program does not start these Q subscriptions automatically because one of them has a load type (4 or 5) that replaces all data in the target table. The Q subscription must be started before the other Q

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subscriptions that specify the same target table to ensure no loss of data.

The Q subscription is using one of the following load types:

104
   Select and load with insert

5
   Select and import with replace

105
   Select and import with insert

The Q subscriptions need to be started in a particular order so there is no loss of data. The option to manually start the Q subscription was specified for this Q subscription.

User response: Use the Q Replication Dashboard, ASNCLP command-line program, or Replication Center to start the Q subscription. For details see, “Starting Q subscriptions.”

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 ASN2418E  The load type load_type is not valid when HAS LOAD PHASE is set to value.

Explanation: The HAS LOAD PHASE value was specified as N, indicating that the target table is not loaded. However, a load type value greater than 0 was specified.

User response: Take one of the following actions:
   • If you want Q Apply to load the target table, pick a HAS LOAD PHASE value of 1.
   • If you do not want Q Apply to load the target table, keep the HAS LOAD PHASE value as N and remove the LOAD TYPE option from the CREATE QSUB command.

---

 ASN2419E  An unexpected value value was found in column column_name of replication control table table_name.

Explanation: The specified control table contains at least one value that prevents processing of the current action. The table might have been updated with SQL that was not generated by the Replication Center or ASNCLP.

User response: Use one of the replication administration tools to drop and recreate the object with the unexpected value. For example, if the object is a Q subscription, drop and recreate it.

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 ASN2420I  The replication key was defined to include all of the selected target columns because no primary key, unique constraint, or index was found on both the source and the target table within the range of the replicated columns.

Explanation: If no primary key, unique constraint, or index are found on the source or target, the administration tool automatically specifies all valid replicated columns as key columns for replication. Some subscribed columns, such as LOB columns, cannot be used as keys.

User response: This message is for your information only. No action is required.

---

 ASN2421W  The column column_name is automatically excluded from the Q subscription.

Explanation: Columns defined as ROWID and GENERATED ALWAYS are excluded automatically from bidirectional and peer-to-peer Q subscriptions.

User response: This message is for your information only. No action is required.

---

 ASN2422E  The source|target database or subsystem that was provided in the SET SERVER command for the Q subscription does not match the source|target database or subsystem that is associated with the replication queue map queue_map_name for the Q subscription.

Explanation: The source and target servers that are specified for a Q subscription must be the same as the source and target servers for the queue map that used to define the Q subscription.

User response: To determine the name of the server that was specified for the queue map, use the Replication Center or view the CAPTURE_SERVER column in the IBMQREP_RECVQUEUES table or the APPLY_SERVER column in the IBMQREP_SENDQUEUES table. Use this value in the SET SERVER command.

---

 ASN2423E  The CREATE QSUB command failed because the source table table_owner.table_name that was specified has a primary key but does not have a unique index on the key columns.

Explanation: DB2 for z/OS tables with a primary key must also have a unique index on the primary key columns. Otherwise, the table definition is incomplete and the ASNCLP cannot create a Q subscription for the table.

User response: Create a unique index on the
appropriate primary key columns in the source table, and retry the command.

**ASN2424E** The option to specify the release level of the replication control tables on server `server_name` is not available because the server is on z/OS or an Oracle source database. The script for creating control tables was not generated.

**Explanation:** The ability to specify the release, or architecture level, of the Q Capture or Q Apply control tables is only supported on DB2 for Linux, UNIX, and Windows.

**User response:** Redefine the control tables, making one of the following changes:

**ASNCLP command-line program**

- Omit the `RELEASE` keyword in the `CREATE CONTROL TABLES FOR` command.

**Replication Center**

- Do not change the Q Capture release in the Create Q Capture Control Tables wizard or Q Apply release in the Create Q Apply Control Tables wizard.

**ASN2425E** Generating the script for creating Q Capture or Q Apply control tables failed because the specified release level is older than the release level of the DB2 database. Release level specified: `specified-release-level`. Server name: `server-name`. DB2 database release level: `DB2-release-level`.

**Explanation:** The release, or architecture level, that is specified for creating Q Capture or Q Apply control tables must match or be newer than the release of the DB2 instance where the control tables are being created.

**User response:** Redefine the control tables, specifying a release that is the same or newer than the DB2 database.

**ASN2426f** ASNCLP : The input clause `input_parameter` is ignored on native z/OS platforms.

**Explanation:** Some input parameters are not needed when the ASNCLP program runs on z/OS platforms with JCL:

- The `SET OUTPUT MULTIDIR` command for bidirectional and peer-to-peer replication is superseded by DD statements that reference locations where the appropriate source and target SQL statements are written.
- The `LOAD MULTIDIR REPL SCRIPT` command is superseded by DD statements that reference the location of the ASNCLP input script for setting up bidirectional or peer-to-peer replication.

- The `PASSWORD` keyword is not used because user authentication is handled through the communications database (CDB).

**User response:** This message is for your information only. No action is required.

**ASN2427E** ASNCLP : The `-EXE` keyword is not supported on native z/OS platforms.

**Explanation:** When the ASNCLP program runs on z/OS platforms with JCL, the execute-immediately mode that is indicated by the `-EXE` keyword is not supported.

**User response:** Provide the commands in an input file that is executed with JCL.

**ASN2428E** The database alias `alias` that was retrieved from the `CAPTURE_ALIAS` column of the `IBMQREP_CAPPARMS` table does not match the alias `alias` that was specified to connect to the database.

**Explanation:** The `CAPTURE_ALIAS` column stores the alias information that was used to connect to the database when the Replication Center or ASNCLP command-line program was used to create Q Capture control tables. However, the alias that is stored in the column does not match the alias that was used for the current database connection. This situation can happen if the database was cataloged with one alias on the system where the tools were used, and later cataloged on a different system by using a different alias.

**User response:** Catalog the database again and use the same alias that was used when control tables were created.

**ASN2429I** ASNCLP : The DB2 subsystem `subsystem_ID` is used for the default connection.

**Explanation:** The stored procedure `SYSPROC.ADMIN_INFO_SSID` returned the name of the communications database (CDB) to which the ASNCLP first connects. Use this CDB to set up connectivity information for replication source and target servers to which the ASNCLP needs to connect.

**User response:** This message is for your information only. No action is required.

**ASN2430W** You mapped a source table column with a CHAR data type to a target table column with the Informix Boolean data type. Ensure that only the following values are inserted or updated into the source column: `t`, `f`, and `NULL`. These are the only allowed values for the
Informix Boolean type.

**Explanation:** The Informix Boolean column in the target table only accepts the values t, f, and NULL. The t and f are not case sensitive, so T and F are also allowed. Any other values that are inserted or updated into the source column that is mapped to the Boolean column will cause an error at the target.

**User response:** If you expect to insert or update any values other than t, f, or NULL into the source column, map the column to a target column that does not use the Informix Boolean data type.

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**ASN2431E** The Q subscription **Q_subscription_name** cannot be created because the Q Capture program’s compatibility level **compatibility_level** is higher than the Q Apply program’s architecture level **arch_level**.

**Explanation:** An older version of the Q Apply program can only work with a newer version of the Q Capture program if the value of the COMPATIBILITY column in the IBMQREP_CAPPARMS table matches the Q Apply version, which is saved in the ARCH_LEVEL column in the IBMQREP_APPLYPARMS table.

**User response:** Change the Q Capture COMPATIBILITY value to match the version of the Q Apply program, or upgrade the Q Apply program to the same version as the Q Capture program.

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**ASN2432E** The Q Capture program’s architecture level **arch_level at server capture_server and schema capture_schema** does not match the Q Apply architecture level **arch_level at server apply_server and schema apply_schema**. The Q subscription cannot be created or started.

**Explanation:** Either the Q Capture program or Q Apply program is at Version 9.7, and the other program is at an older version. In a multidirectional replication configuration, all of the programs must be at the same version. The ARCH_LEVEL and COMPATIBILITY columns in the IBMQREP_CAPPARMS table must match the value of the ARCH_LEVEL column in the IBMQREP_APPLYPARMS table.

**User response:** Upgrade the down-level Q Capture or Q Apply program to Version 9.7 or to the equivalent PTF on z/OS, and then create or start the Q subscription.

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**ASN2435E** ASNCLP : The input clause **input_parameter** is not allowed on native z/OS platforms.

**Explanation:** On native z/OS platforms, the ASNCLP uses the SET BIDI NODE SERVER or SET PEER NODE SERVER commands to specify the paired Q Capture and Q Apply programs at each server for bidirectional or peer-to-peer replication. The SET SERVER MULTIDIR command is not used on native z/OS.

**User response:** Use the SET BIDI NODE SERVER or SET PEER NODE SERVER command.

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**ASN2436E** The database alias **alias** that was retrieved from the APPLY_ALIAS column of the IBMQREP_APPLYPARMS table does not match the alias **alias** that was specified to connect to the database.

**Explanation:** The APPLY_ALIAS column stores the alias information that was used to connect to the
database when the Replication Center or ASNCLP command-line program was used to create Q Apply control tables. However, the alias that is stored in the column does not match the alias that was used for the current database connection. This situation can happen if the database was cataloged with one alias on the system where the tools were used, and later cataloged on a different system by using a different alias.

User response: Catalog the database again and use the same alias that was used when control tables were created.

ASN2437E  A Q subscription cannot be created because the Q Capture control tables are at architecture level arch_level, which is not supported by the Q Apply architecture level arch_level on Linux, UNIX, and Windows, or by Q Apply on z/OS at any architecture level.

Explanation: When the Q Capture program is at Version 9.8 (a value of 0908 in the ARCH_LEVEL column of the IBMQREP_CAPPARMS table), replication is only supported when the Q Apply control tables are in a DB2 for Linux, UNIX, or Windows database that is at Version 9.7 Fix Pack 2 or higher.

User response: Take one of the following actions depending on the location of the Q Apply control tables:

DB2 for Linux, UNIX, and Windows
   Upgrade DB2 to V9.7 Fix Pack 2 or later.

DB2 for z/OS
   Use a pre-V9.8 Q Capture program in the configuration.

ASN2438E  The subscription cannot be created because the Q Capture program is at Version version and the value of the COMPATIBILITY column in the IBMQREP_CAPPARMS table is current_value. The expected value for COMPATIBILITY is expected_value.

Explanation: When the Q Capture program is at the specified architecture level (as recorded in the ARCH_LEVEL column of the IBMQREP_CAPPARMS table), the value of the COMPATIBILITY column must be the expected value that is shown in the message text.

User response: Use the Q Replication Dashboard, Replication Center, or SQL to update the value of the COMPATIBILITY column.

ASN2439E  The same queue manager name name was provided for queue managers that are on two different systems. Queue manager names must be unique across the network. The command failed.

Explanation: WebSphere MQ requires that queue managers that are connected within a network have unique names even when they are on different systems.

User response: Provide a unique queue manager name or let the CREATE MQ SCRIPT command pick a unique queue manager name by not specifying the queue manager name in the QMANAGER keyword.

ASN2440E  The Replication Center cannot obtain the DB2 for z/OS subsystem ID because the SYSPROC.ADMIN_INFO_SSID stored procedure is not installed.

Explanation: The Replication Center uses the subsystem ID to connect to DB2 for z/OS to create control tables or perform other tasks. The stored procedure for providing the subsystem ID is SYSPROC.ADMIN_INFO_SSID. On DB2 for z/OS Version 10, SYSPROC.ADMIN_INFO_SSID is installed by default. On DB2 for z/OS version 8 and Version 9, the job to install the SYSPROC.ADMIN_INFO_SSID stored procedure is DSNTIJSG.

User response: Install the SYSPROC.ADMIN_INFO_SSID stored procedure at the source or target subsystem, and then retry the action.

ASN2441E  The CREATE QSUB command does not support the option REPLICATE ADD COLUMN if the source or target DB2 subsystem is earlier than Version 10.

Explanation: The REPLICATE ADD COLUMN function is valid only if both the source and target are at DB2 for z/OS Version 10 or later.

User response: Either specify both a source and target subsystem that are at Version 10 or later, or do not specify the REPLICATE ADD COLUMN keywords.

ASN2442E  The action action_name cannot be completed because the required information for the bidirectional or peer-to-peer node node_number was not provided in an earlier command.

Explanation: The CREATE CONTROL TABLES or CREATE REPLQMAP commands contain a reference to a node number. The node number is used to identify the servers that are involved in bidirectional or peer-to-peer replication. However, the node information was not set in a prior SET BIDI NODE or SET PEER NODE command.

User response: Issue the SET BIDI NODE or SET PEER NODE command to identify the server with a

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node number before specifying the node number in the CREATE CONTROL TABLES and CREATE REPLQMAP commands.

**ASN2443W** The target table `table_owner.table_name` contains a BUSINESS_TIME WITHOUT OVERLAPS (BTWO) clause in its primary key or unique constraint specification, but the source table `table_owner.table_name` does not have the same option. The Q Apply program might encounter errors.

**Explanation:** The target is defined with a BUSINESS_TIME period clause that uses the WITHOUT OVERLAPS option. With this option, the BUSINESS_TIME period value for a matching key cannot be overlapped. If the source table contains overlapped BUSINESS_TIME values, the Q Apply program will receive SQL errors when it applies these changes to the target table.

**User response:** Drop the primary key or unique constraint on the target table and redefine it without the WITHOUT OVERLAPS option.

**ASN2444E** The source table `table_owner.table_name` is not a system period temporal table or bitemporal table, nor is versioning enabled for the table. A Q subscription or subscription-set member will not be created for the history table.

**Explanation:** The attempt to create a Q subscription or subscription-set member for the history table failed because the source table is not a system period temporal table, bitemporal table, or a table with versioning enabled. Therefore, the source table does not have a history table.

**User response:** Take one of the following actions:
- Alter the source table by specifying the ADD PERIOD SYSTEM_TIME and ADD VERSIONING USE HISTORY TABLE clauses, and then reissue the CREATE QSUB or CREATE MEMBER command.
- Do not specify INCLUDE HISTORY TABLE when creating the Q subscription or subscription-set member.

**ASN2445E** The attempt to create a Q subscription or subscription-set member for the source table `table_owner.table_name` failed. The source table has a SYSTEM_TIME or BUSINESS_TIME period defined, but the target table `table_owner.table_name` does not have a SYSTEM_TIME or BUSINESS_TIME period defined.

**Explanation:** A Q subscription or subscription-set member cannot be created unless both the source and target table are correctly defined. In order to define a temporal table on the target, either a SYSTEM_TIME or BUSINESS_TIME period must be defined.

**User response:** Define a SYSTEM_TIME or BUSINESS_TIME period on the target table by using the ALTER TABLE statement, and then reissue the CREATE QSUB or CREATE MEMBER command.

**ASN2446W** No period `period_name` exists on the source table `table_owner.table_name`. The PERIOD keyword that was used in the CREATE QSUB or CREATE MEMBER command is ignored.

**Explanation:** You can only use the PERIOD keyword when you are subscribing a table that has a SYSTEM_TIME or BUSINESS_TIME period defined.

**User response:** Do not specify the PERIOD clause when creating a subscription, or define a period on the source table and then reissue the command.

**ASN2447W** The target temporal table `table_owner.table_name` has versioning enabled even though the source history table `table_owner.table_name` is part of a Q subscription or subscription-set member. SQL conflicts might occur when rows are applied to the target table.

**Explanation:** The versioning attribute on the temporal table at the target causes DB2 to update the table in addition to updates that are made by the Q Apply or Apply program. This can cause SQL conflicts at the table.

**User response:** Either remove the subscription on the history table or perform an ALTER TABLE to remove versioning on the target temporal table.

**ASN2448E** The ASNCLP program could not create a history table for the target table `table_owner.table_name` because no name was specified for the history table in the CREATE QSUB or CREATE MEMBER command.

**Explanation:** To create a Q subscription or subscription-set member for a temporal table, the target table must either already have a history table, or you must provide a name for the history table so the ASNCLP program can create the history table.

**User response:** Specify a name that can be used to create the target history table or create a history table for the target table. Then reissue the command.
ASN2449E An error occurred while trying to generate the DataStage definition (.dsx) files that create jobs to read from a consistent-change data (CCD) table. The files were not created. Reason code: reason_code.

Explanation: One of the following problems, identified by a reason code, caused the generation of the .dsx files to fail:

1

The IBM SNAP_FEEDETL control table does not exist at the Apply control server. This table is required to identify SQL Replication subscription sets with at least one CCD table member that is read by IBM InfoSphere DataStage.

2

The subscription set does not include any member CCD tables that are noncondensed and noncomplete.

User response: Review the reason codes in the explanation, and take the appropriate action:

1

Create the IBM SNAP_FEEDETL control table manually by using the sample in the SQLLIB/samples/repl/sql directory and regenerate the .dsx file.

2

Ensure that the subscription set has at least one member CCD table that is noncondensed and noncomplete.

ASN2458E The value B for the ERROR ACTION keyword in the CREATE QSUB command is not supported when the source or target table has referential integrity constraints.

Explanation: You can specify B for ERROR ACTION to prompt the Q Apply program to put change messages for the Q subscription in a temporary spill queue when an SQL error occurs and until the error is resolved. However, the B value is not supported when the source or target table for the Q subscription is involved in a referential integrity relationship with other tables.

User response: Specify a different value for ERROR ACTION and resubmit the CREATE QSUB command.

ASN2459E The target nickname nickname_owner.nickname_name references a table on the remote server remote_server but the Q Apply control table nicknames reference control tables on a different remote server remote_server. The target nickname and Q Apply control table nicknames must point to the same remote server.

Explanation: The target nickname and the Q Apply control table nicknames must reference tables on the same remote server because the Q Apply program updates the nickname target and some control tables in the same commit scope and the federated wrapper does not support two-phase commit.

User response: Take one of the following actions and then retry the CREATE QSUB command:

• Create a target nickname that points to the same remote server as the Q Apply control tables.
• Let the ASNCLP program create the nickname by not specifying the EXIST clause.

ASN2450E Stored procedure target are not supported when either the Q Capture control tables or Q Apply control tables are at arch_level architecture level.

Explanation: When the version of the control tables at the source or target is 0908 (Version 9.8), replication to stored procedure targets is not supported.

User response: Select a different target type.

ASN2460E A Q subscription could not be created for source table table_owner.table_name because the LOAD from CURSOR option was specified but no nickname was provided. The LOAD from CURSOR option that uses a cataloged DB2 alias instead of a nickname is not available because the Q subscription includes one or more XML columns.

Explanation: The Q subscription specifies that the Q Apply program should load the target table (automatic load) by using the LOAD from CURSOR utility. However, this utility cannot be used.

This message is returned when the target database is at Version 9.7 Fix Pack 4 or later and no nickname is provided.

In DB2 pureScale environments only:
Because the DB2 pureScale Feature is not supported in a federated environment, the LOAD from CURSOR utility can use an alias instead of a nickname in a DB2 pureScale environment. However, the LOAD from CURSOR utility cannot use an alias if the Q subscription includes one or more XML columns. This message is returned in a DB2 pureScale environment when no nickname is provided and there are one or more XML columns in the Q subscription.

User response: Recreate the Q subscription, specifying a nickname for the LOAD FROM CURSOR option, or select a different load option such as "Best available: Let the Q Apply program choose a load option" in the Replication Center (LOAD TYPE 0 in the ASNCLP command-line program) or the EXPORT and IMPORT combination of utilities.

In DB2 pureScale environments only:

Recreate the Q subscription, specifying a different load option such as "Best available: Let the Q Apply program choose a load option" in the Replication Center (LOAD TYPE 0 in the ASNCLP command-line program) or the EXPORT and IMPORT combination of utilities.

ASN2461E  LOAD from CURSOR was chosen for the Q subscription (LOAD TYPE 1) but the keywords to specify a nickname for the source table were not provided in the CREATE QSUB command. The source server server_name is at version version and this version requires a source nickname for LOAD from CURSOR.

Explanation: At the specified server level, the LOAD from CURSOR option requires a nickname for the source table. Nicknames are not required for Version 9.7 Fix Pack 4 and later.

User response: Use the NICKNAME or NEW NICKNAME RMT SERVERNAME keywords to specify an existing or new nickname and reissue the CREATE QSUB command.

ASN2462E  The CREATE QSUB command specifies to create multiple Q subscriptions that use the LOAD from CURSOR option with a nickname for the source table. However, only a single nickname nickname_owner.nickname_name was specified for the source table.

Explanation: When you create multiple Q subscriptions, it is recommended that you use the NAMING PREFIX option with the NEW NICKNAME RMT SERVERNAME keywords so that the ASNCLP program can generate a unique nickname for each source table.

User response: Provide a different expression that does not overlap with existing schema-level Q subscriptions or drop the existing schema-level Q subscription and reuse this expression.

ASN2465E  A schema-level Q subscription of configuration type configuration_type cannot be created for schema schema_name because a schema-level Q subscription already exists for another schema existing_schema that uses the same queue map queue_map_name, and these two schemas overlap.

Explanation: The expression that was used to select schemas for the schema-level Q subscription overlaps or conflicts with the schema of an existing schema-level Q subscription. Overlapping schemas are not supported. For example, if a schema-level Q subscription is created for schema pattern "ANU%"."T%", you cannot create another schema-level Q subscription for pattern "ANU1"."T%" that uses the same replication queue map.

User response: Drop the existing Q subscription before creating the schema-level Q subscription.
A schema-level Q subscription of configuration type configuration_type cannot be created for schema schema because table-level Q subscriptions for some tables that belong to this schema have the same configuration type and use the same replication queue map queue_map_name, but have different values for properties such as conflict action and conflict rule.

Explanation: Table-level Q subscriptions that belong to the same schema-level Q subscription, have the same configuration type (unidirectional, bidirectional, or peer-to-peer), and use the same replication queue map must have the same conflict action and conflict rule.

User response: Drop the existing Q subscriptions before creating the schema-level Q subscription.

The name name that was provided to identify the list of Q subscription options for Q subscription type type cannot be used because another list of Q subscription options with the same name already exists for Q subscription type type at server server_name under Q Capture schema schema.

Explanation: The CREATE SUBSCRIPTION OPTIONS command sets options for all Q subscriptions of a given configuration type (unidirectional, bidirectional, or peer-to-peer) within a given schema. The name for the list of options must be unique for a Q Capture schema.

User response: Provide a different name for the list of options and reissue the command.

The table table_owner.table_name matches the provided schema pattern schema_pattern and source table pattern table_pattern but is already part of a Q subscription. The SCHEMA_SUBNAME column for this Q subscription will be updated to schema_subname.

Explanation: A table-level Q subscription cannot be created for the provided table because one already exists. But the SCHEMA_SUBNAME column in the IBMQREP_SUBS and IBMQREP_TARGETS tables will be updated to the provided value to make this Q subscription part of the schema-level Q subscription.

User response: This message is for your information only. No action is required.

The option TARGET EXISTS VALIDATION NO was chosen and so the ASNCLP program will assume that the source and target tables are identical and will not perform any checks on source and target tables.

Explanation: When the option TARGET EXISTS VALIDATION NO is chosen, the ASNCLP program does not perform any checks such as whether the target table exists, whether the column mappings are compatible between the source and target tables, and whether constraints match between source and target tables. The ASNCLP program will only generate the insert statements into the control tables to create the Q subscription.

User response: To avoid problems with the Q Capture and Q Apply programs, make sure that the target table exists and that the source and target tables are identical before using this option.

The options name options_name that was specified in the OPTIONS clause in the CREATE SCHEMASUB or CREATE QSUB command does not exist.

Explanation: The options name identifies a set of options for all table-level Q subscriptions within a schema-level Q subscription. A row that is identified by the options name should exist in the IBMQREP_SUBS_PROF table before table-level Q subscriptions can be created using the specified attributes.

User response: Issue a CREATE SUBSCRIPTION OPTIONS command to first create the options before using the options name in the CREATE SCHEMASUB or CREATE QSUB command. If the CREATE SUBSCRIPTION OPTIONS command is already specified in the input file, make sure that the SET RUN SCRIPT NOW command is used to run the generated script immediately.

The type type of the Q subscription that was specified in the CREATE SUBSCRIPTION OPTIONS command with the options name options_name does not match the Q subscription type type that was specified in the CREATE SCHEMASUB or CREATE QSUB command.

Explanation: The Q subscription types (unidirectional, bidirectional, or peer-to-peer) should match between the CREATE SUBSCRIPTION OPTIONS command and the CREATE SCHEMASUB or CREATE QSUB commands that use the options. Otherwise, the Q subscription properties might be incompatible.

User response: Provide another options name that has the same Q subscription type that was specified in the CREATE SCHEMASUB or CREATE QSUB command. You can also omit the OPTIONS clause and the ASNCLP program will pick the product defaults for that Q subscription type.
The START SCHEMASUB command was processed for schema-level Q subscription *name*. A CAPSTART signal will be inserted into the *schema*.IBMQREP_SIGNAL table for *number* Q subscriptions that are part of the schema-level Q subscription.

**Explanation:** The START SCHEMASUB command was issued with the ALL option. All Q subscriptions that belong to the schema-level Q subscription in new and inactive state are activated.

**User response:** This message is for your information only. No action is required.

The START SCHEMASUB command was processed for schema-level Q subscription *name*. A CAPSTART signal was inserted into the *schema*.IBMQREP_SIGNAL table for the schema-level Q subscription.

**Explanation:** A CAPSTART signal was inserted to activate the specified schema-level Q subscription. The Q Capture program will start capturing changes for source tables that are part of the schema-level Q subscription.

**User response:** This message is for your information only. No action is required.

The START SCHEMASUB command was processed for schema-level Q subscription *name*. A CAPSTART signal was not inserted into the *schema*.IBMQREP_SIGNAL table for the schema-level Q subscription because the schema-level Q subscription is already in inactive state.

**Explanation:** Because the schema-level Q subscription is already inactive, the ASNCLP program did not generate a script to stop the schema-level Q subscription.

**User response:** This message is for your information only. No action is required.

The STOP SCHEMASUB command was processed for schema-level Q subscription *name*. A CAPSTOP signal was inserted into the *schema*.IBMQREP_SIGNAL table for the schema-level Q subscription.

**Explanation:** In response to the STOP SCHEMASUB command, the ASNCLP program generated a SQL script to insert a CAPSTOP signal. The signal prompts the Q Capture program to stop capturing changes for all source tables within the schema.

**User response:** This message is for your information only. No action is required.

The STOP SCHEMASUB command was processed for schema-level Q subscription *name*. However, a CAPSTOP signal was not inserted into the *schema*.IBMQREP_SIGNAL table because the schema-level Q subscription is already in inactive state.

**Explanation:** Because the schema-level Q subscription is already inactive, the ASNCLP program did not generate a script to stop the schema-level Q subscription.

**User response:** This message is for your information only. No action is required.

A schema-level Q subscription with name *name* does not exist at the server *server* under schema *schema*. No script is generated.

**Explanation:** The schema-level Q subscription that was specified in the DROP SCHEMASUB command does not exist in the IBMQREP_SCHEMASUBS table and cannot be deleted.

**User response:** Provide an existing schema-level Q subscription name and reissue the command.

Number table-level Q subscriptions that belong to the schema-level Q subscription *name* will be deleted.

**Explanation:** The DROP SCHEMASUB command was issued with the ALL option. All table-level Q subscriptions that belong to the schema-level Q subscription will be deleted.

**User response:** This message is for your information only. No action is required.
The provided list of Q subscription options does not exist at server server_name under Q Capture schema schema and cannot be deleted.

Explanation: The IBMQREP_SUBS_PROF table stores the user-defined options for all Q subscriptions of a given type within a schema-level Q subscription. A row with the provided options name cannot be found in the IBMQREP_SUBS_PROF table. No SQL script is generated to delete the options list.

User response: Provide a different name for the options list and rerun the DROP SUBSCRIPTION OPTIONS command.

The set of Q subscription options options_name cannot be deleted because one or more schema-level Q subscriptions are using the options.

Explanation: The Q Capture and Q Apply programs refer to the saved list of Q subscription options to create new Q subscriptions for schema-level Q subscriptions that use this options name. If the options list is deleted, errors will occur for the running replication programs.

User response: Provide the name of a different set of Q subscription options to delete, or delete any schema-level Q subscriptions that are using the options and then delete the options.

The MQDEFAULTS option to pick default values for WebSphere MQ objects was chosen in the CREATE CONTROL TABLES command. The ASNCLP program will assign the following defaults: queue manager: queue_manager; administration queue: admin_queue; restart queue: restart_queue.

Explanation: When the MQDEFAULTS option is specified, the ASNCLP program creates control tables with the same defaults for WebSphere MQ objects that are generated by the CREATE MQ SCRIPT command.

User response: This message is for your information only. No action is required.

The MQDEFAULTS option to pick default values for WebSphere MQ objects was used in the CREATE REPLQMAP command. The ASNCLP program creates a replication queue map with the same defaults for WebSphere MQ objects as the defaults that are generated by the CREATE MQ SCRIPT command.

User response: This message is for your information only. No action is required.

The option to drop control tables on the server that is specified by node number number was chosen, but the control table table_name does not exist at server server_name under the specified schema schema.

Explanation: The command specifies that the ASNCLP program should drop both Q Capture and Q Apply control tables at the server that is identified by the node number. However, the action cannot be carried out because both Q Capture and Q Apply control tables do not exist.

User response: Provide a different schema that has both Q Capture and Q Apply control tables or use the regular DROP CONTROL TABLES command to individually drop either the Q Capture or Q Apply control tables at the server.

The keyword keyword is not supported if either the source server or target server is not on DB2 for Linux, UNIX, and Windows Version 10 or higher.

Explanation: The option is only supported on DB2 for Linux, UNIX, and Windows V10 or higher.

User response: Remove the option and reissue the command.

The action action_name cannot be completed because the required information for node node_number was not provided.

Explanation: Node numbers are used to identify the servers in bidirectional replication. A reference to a node number was made in the CREATE CONTROL TABLES FOR or CREATE REPLQMAP command but the node information was not set in a prior SET BIDI NODE command.

User response: Issue the SET BIDI NODE command before you use the node number in a CREATE CONTROL TABLES FOR or CREATE REPLQMAP command.

The queue manager for MQSERVER server_number at host hostname and port port_number is local to the system where the ASNCLP program runs. The ASNCLP program will run the WebSphere MQ setup script for this server.

Explanation: If you use the RUN NOW option with
the CREATE MQ SCRIPT command and the ASNCLP program is running on the same system as the queue manager, the ASNCLP generates the script and then runs the script. If the queue manager is on a different system, the ASNCLP does not run the script even if RUN NOW is specified.

User response: This message is for your information only. No action is required.

ASN2488W The queue manager for MQSERVER server_number at host hostname and port port_number is remote from the system where the ASNCLP program runs. The ASNCLP program will not run the WebSphere MQ setup script for this server even though the RUN NOW option is specified.

Explanation: If you use the RUN NOW option with the CREATE MQ SCRIPT command and the ASNCLP program is running on a different system than the queue manager, the ASNCLP generates the script but does not run the script. If the queue manager is on the same system, the ASNCLP runs the script when RUN NOW is specified.

User response: Run the generated WebSphere MQ script by using the following command:
runmqsc <queue_manager_name> <filepath>/<script_file_name>

ASN2489E The option WITH LOGMARKER is specified in the CREATE QSUB command and the target table or nickname owner.name exists but does not have the IBMSNAP_LOGMARKER column.

Explanation: The target table or nickname must have the IBMSNAP_LOGMARKER column to use the WITH LOGMARKER option for the Q subscription.

User response: Perform one of the following actions and rerun the command:
• Alter the target table to add the IBMSNAP_LOGMARKER column with a data type of TIMESTAMP and NOT NULL WITH DEFAULT.
• Use another target table that has the IBMSNAP_LOGMARKER column.

ASN2490E The target table or nickname owner.name contains the column IBMSNAP_LOGMARKER but the data type of the column data_type does not match the required data type data_type.

Explanation: The data type of the column IBMSNAP_LOGMARKER must match the Q Replication requirements or the Q Apply program does not activate the Q subscription.

User response: Follow the steps in the Version 10 migration information to upgrade target CCD tables to 16-byte LSN columns and and restart the Q Apply program.

ASN2491E The option WITH LOGMARKER is not supported because either the Q Apply server is on DB2 for z/OS and the control tables are not at Version 10 or higher (ARCH_LEVEL of 100Z) or on DB2 for Linux, UNIX, and Windows and not at Version 9.7 Fix Pack 4 or higher.

Explanation: The WITH LOGMARKER option of the CREATE QSUB command adds the timestamp of when the source row was changed to the target table or nickname. This option is only supported in the following cases:
• The Q Apply server on Linux, UNIX, and Windows at Version 9.7 FP4 or higher.
• The Q Apply server is on z/OS and the architecture level is 100Z or higher, which corresponds to Version 10, and the PTF that corresponds to Version 9.7 Fix Pack 4 is installed.

User response: Upgrade the Q Apply server to the version and PTF or fix pack that supports this option, and resubmit the CREATE QSUB command.

ASN2494E A schema-level Q subscription with name name already exists at the server server_name under schema schema.

Explanation: The name that was provided with the CREATE SCHEMASUB command already exists in the IBMQREP_SCHEMASUBS table. A duplicate schema-level Q subscription cannot be created.

User response: Provide a different name and reissue the CREATE SCHEMASUB command.

ASN2496E Target consistent-change data (CCD) tables have not been upgraded to 16-byte log sequence number (LSN) columns that are required when the target server is at DB2 version version.

Explanation: When the source server is at DB2 Version 10, target CCD tables require 16-byte LSN columns (IBMSNAP_COMMITSEQ, IBMSNAP_INTENTSEQ) to hold log sequence numbers.

User response: Follow the steps in the Version 10 migration information to upgrade target CCD tables to 16-byte LSN columns and and restart the Q Apply program.
The WITH LOGMARKER option cannot be used because the source table
*table.owner_table.name* has an IBMSNAP_LOGMARKER column.

**Explanation:** You can populate an IBMSNAP_LOGMARKER column in a target table in two different but mutually exclusive ways:

- By specifying the WITH LOGMARKER keywords in the CREATE QSUB command. With this method, the IBMSNAP_LOGMARKER column is added to the target table and is populated with timestamp values taken directly from the source recovery log.

- By including an IBMSNAP_LOGMARKER column in the source table and mapping the column to a matching IBMSNAP_LOGMARKER column in the target table. With this method, the target column is populated with values from the source column. This method can be used in a three-tier configuration where the IBMSNAP_LOGMARKER column at Tier 2 is populated from the recovery log at Tier 1, and in turn its values are replicated to populate the column at Tier 3.

If you have a source column named IBMSNAP_LOGMARKER, you cannot use the WITH LOGMARKER keywords.

**User response:** Reissue the CREATE QSUB command, omitting the WITH LOGMARKER option. Map the IBMSNAP_LOGMARKER column in the source table to the matching target column. This method ensures that values in the IBMSNAP_LOGMARKER column are from the source table and not from the log.

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The action *action* failed. The architecture level *arch_level* of the Apply control tables is not compatible with the Capture compatibility value *compatibility*.

**Explanation:** The source server is at DB2 Version 10, which uses 16-byte log sequence numbers (LSN). To replicate data from Version 10, the Apply program must work with control tables that are migrated to Version 10 and 16-byte LSN values.

**User response:** Migrate the Apply control server to Version 10.

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The action *action* failed. The source and target consistent-change data (CCD) tables are incompatible.

**Explanation:** Both source and target CCD tables must have either 10-byte or 16-byte columns to hold log sequence numbers (LSN).

**User response:** Upgrade the target CCD table to 16-byte LSN columns if the source CCD table uses 16-byte LSN columns, or upgrade the source CCD table to 16-byte LSN columns. The source CCD table can be either an external CCD table that you create or a CCD table that is maintained by an Apply program or Q Apply program, in which case migration of these servers is also required.
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ASN2500E The TYPE CCD option cannot be used because the source table table.owner_table.name has the following IBMSNAP_% columns: columns.

Explanation: You can populate the IBMSNAP_% columns in a target table in two different but mutually exclusive ways:

- By specifying the TYPE CCD keyword in the CREATE QSUB command. With this method, the target type is set to 2 and the IBMSNAP_% columns in the target table are populated with values taken directly from the source recovery log.
- By including the IBMSNAP_% columns in the source table and mapping the column to a matching IBMSNAP_% column in the target table. With this method, the target column is populated with values from the source column. This method can be used in a three-tier configuration where the IBMSNAP_% column at Tier 2 is populated from the recovery log at Tier 1, and in turn its values are replicated to populate the column at Tier 3.

If you have a source column named one of the IBMSNAP_% columns, you cannot use the TYPE CCD keyword.

User response: Reissue the CREATE QSUB command, omitting the TYPE CCD option to indicate that the target is a regular user table. Map the IBMSNAP_% columns in the source table to the matching target column. This method ensures that the IBMSNAP_% column is from the source table and not from the log.

ASN2503E The TARGET keyword is not supported in the ALTER ADD COLUMN command because of the DB2 version, architecture level, or compatibility settings of the source or target server. Reason code reason_code.

Explanation: The option to specify target column names with the ALTER ADD COLUMN command is allowed only in the following cases:

Linux, UNIX, Windows

Source or target servers are on DB2 Version 9.7 Fix Pack 5 or higher and the value of the COMPATIBILITY column in the IBMQREP_CAPPARMS table is 0907 or higher.

z/OS

The architecture level of the Q Capture or Q Apply control tables (ARCH_LEVEL column in the IBMQREP_CAPPARMS or IBMQREP_APPLYPARMS table) is 0907 or higher and the value of the COMPATIBILITY column in the IBMQREP_CAPPARMS table is 0907 or higher.

The following values are valid for the reason code:

0  The Q Capture server is on DB2 for Linux, UNIX, and Windows V9.7 FP5 or higher but COMPATIBILITY is lower than 0907.
1  The Q Capture server is on DB2 for Linux, UNIX, and Windows V9.7 FP4 or lower.
2  The Q Capture server is on DB2 for z/OS and ARCH_LEVEL is lower than 0907.
3  The Q Capture server is on DB2 for z/OS but COMPATIBILITY is lower than 0907.
4  The Q Apply server is on DB2 for Linux, UNIX, and Windows V9.7 FP4 or lower.
5  The Q Apply server is on DB2 for z/OS and ARCH_LEVEL is lower than 0907.

User response: Follow these steps:

1. Upgrade the Q Capture server, Q Apply server or both to either DB2 for Linux, UNIX, and Windows V9.7 FP5 or higher with the required compatibility setting or DB2 for z/OS with the required compatibility setting and architecture level.
2. Rerun the command.

ASN2506E A schema-level Q subscription subscription_name that uses replication queue_map queue_map_name cannot be created because the expression expression that was provided for the schemas or tables to include or exclude from the Q subscription is invalid.

Explanation: You can use the percentage sign (%) as a wild card to specify schema-level Q subscriptions and the Q Capture program automatically creates a Q subscription for all tables within the schemas with names that match the wild-card expression. However the wild card can only be specified as a suffix when you use the following keywords:
Wild cards that are used as a prefix (for example "%AN" or "%AN%") are not supported, and no wild cards are allowed with the EXCLUDE OWNER keywords.

**User response:** Change to an allowed wild-card expression and reissue the CREATE SCHEMASUB command.

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**ASN2509I** The REINIT SCHEMASUB command was processed for the schema-level Q subscription name.

**Explanation:** The REINIT SCHEMASUB command prompts the ASNCLP program to generate a SQL script to insert a REINIT_SCHEMASUB signal into the IBMQREP_SIGNAL table. The signal causes the Q Capture program to reread the saved options for the schema-level Q subscription.

**User response:** This message is for your information only. No action is required.

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**ASN2510E** A schema-level Q subscription with name name does not exist at the server server under schema schema and so could not be deleted.

**Explanation:** The attempt to delete a schema-level Q subscription failed because the specified Q subscription name does not exist in the IBMQREP_SCHEMA table.

**User response:** Provide an existing schema-level Q subscription name and rerun the action.

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**ASN2511E** The column column_name of data type data_type in target table table_owner.table_name cannot be populated with the timestamp of when the source row was changed because the column data type does not match the required data type required_data_type.

**Explanation:** The target table must have a timestamp column in order for the table to serve as a point-in-time table. This type of table stores the time that each row change was committed at the source database.

**User response:** Redo the action to create the Q subscription after making one of these changes:

- Use a different column in the target table that is defined with the TIMESTAMP data type.
- Use a different target table that includes a timestamp column.

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**ASN2512E** The column column_name in target table table_owner.table_name cannot be populated with the timestamp of when the source row was changed because the target column is already mapped to a source column column_name in table table_owner.table_name.

**Explanation:** The specified column in the target table is already mapped to a source column, so you cannot specify this column to be populated with the timestamp of when the source row was changed. The timestamp is taken from the recovery log at the source database.

**User response:** Redo the action to create the Q subscription after making one of these changes:

- Use a different eligible column in the target table to map to the source recovery log.
- Remove the source column mapping:
  - Use the TRGCOLS EXCLUDE option to exclude the target column from any direct mapping to a source column.
  - If you are already using the TRGCOLS INCLUDE option with the column, then remove the column from the list of target columns to include.

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**ASN2513E** The target table or nickname owner.name cannot be used as a point-in-time table or nickname because it does not contain any timestamp columns.

**Explanation:** A point-in-time table or nickname includes an additional column that is populated with the timestamp of when the source row was changed. To use this option, the target table or nickname must have at least one column that is defined with the TIMESTAMP data type.

**User response:** Perform one of the following actions:
In the Replication Center, deselect the **Point-in-time** option on the Source and Target page of the Q Subscription Properties notebook for this table or nickname.

- Alter the target table to include a timestamp column and then redo the action.
- Do not create a Q subscription that includes this target table or nickname.

**ASN2514E** The target table or nickname `owner.name` does not have any eligible column to store the timestamp of when the source row changed. All of the timestamp columns in the table or nickname are already mapped to source table columns.

**Explanation:** A point-in-time table or nickname includes an additional column that is populated with the timestamp of when the source row was changed. To use this option, the target table or nickname must have at least one timestamp column that is not mapped to a source column.

**User response:** Redo the action to create the Q subscription after making one of these changes:

- In the Replication Center, clear the **Point-in-time** check box on the Source and Target tab of the Q Subscription Properties notebook.
- Make one of the timestamp columns in the target table columns eligible for the point-in-time mapping by following these steps:
  1. On the Column Mapping page, remove the source-target mapping for a timestamp column in the target table.
  2. Select the target column and click **Map to LOGMARKER** to map the column to the value from the source recovery log.

**ASN2515W** An existing nickname could not be found on the federated database `database_name` for the remote table `table_owner.table_name`. A new nickname `owner.name` will be created.

**Explanation:** When you create multiple Q subscriptions for federated targets, the Replication Center uses the target object profile that you created to determine whether to use an existing nickname or create a new nickname. The option to use an existing nickname was selected in the profile and a nickname exists on the federated database that matches the profile. However, this nickname does not point to the remote target table.

**User response:** Take one of the following actions:

- On the Target Tables page of the Create Q Subscriptions wizard, click **Change**, and then on the Target Object Profiles notebook, clear the **Use existing nicknames** checkbox. The Replication Center then creates a nickname that points to the remote target table.
- Create a nickname that points to the remote target table, and use this existing nickname for the Q subscription.

**ASN2516E** The nickname `owner.name` exists on the federated database `database_name`, but the nickname does not point to the remote table `table_owner.table_name` that was specified as the target table for the Q subscription.

**Explanation:** When you create multiple Q subscriptions for federated targets, the Replication Center uses the target object profile that you created to determine whether to use an existing nickname or create a new nickname. The option to use an existing nickname was selected in the profile and a nickname exists on the federated database that matches the profile. However, this nickname does not point to the remote target table.

**User response:** Take one of the following actions:

- On the Target Tables page of the Create Q Subscriptions wizard, click **Change**, and then on the Target Object Profiles notebook, clear the **Use existing nicknames** checkbox. The Replication Center then creates a nickname that points to the remote target table.
- Create a nickname that points to the remote target table, and use this existing nickname for the Q subscription.

**ASN2517E** More than one nickname points to the remote table `table_owner.table_name` and so the Replication Center cannot determine which nickname to use.

**Explanation:** When you create multiple Q subscriptions for federated targets, the Replication Center uses the target object profile that you created to determine whether to use an existing nickname or create a new nickname. The option to use an existing nickname was chosen in the profile, but you must use the Q Subscription Properties notebook to specify which nickname to use.

**User response:** Follow these steps:

1. On the Review Q Subscriptions page of the wizard, select the Q subscription that specifies this remote table and click **Properties**.
2. On the Source and Target tab of the Q Subscription Properties notebook, select a nickname from the **Existing nicknames** list.

**ASN2521E** The compatibility value `value` is not supported because the Q Capture control tables are at Version 10.1.

**Explanation:** The Q Capture compatibility parameter specifies the level of messages that are sent to the Q Apply program. When the Q Capture program is at Version 10.1 on Linux, UNIX, and Windows, the supported values for the compatibility parameter are 1001 and 0907.
User response: Use the Q Replication Dashboard or SQL to set the value in the COMPATABILITY column of the IBMQREP_CAPPARMS table to 1001 if the Q Apply program is at Version 10.1 on Linux, UNIX, or Windows, or 0907 if the Q Apply program is at Version 9.7. Then reissue the ASNCLP command.

ASN2523E You cannot use the Replication Center on Oracle source databases to perform operational tasks such as starting or stopping replication and event publishing programs or managing send or receive queues.

Explanation: The Replication Center function to run commands that operate on replication or publishing programs is not supported on Oracle source databases.

User response: To start the Q Capture program, open a console on the Oracle server and use the asnoqcap command. To issue commands to a running Q Capture program, use the asnoqccmd command.

ASN2524E One or more values are missing for the required parameter or parameters parameter_names. You must specify values for both MQLOG and MQDATA when you specify the MULTIINST option with the CREATE MQ SCRIPT command. No script is generated.

Explanation: In a multi-instance queue manager configuration, you must specify the MQLOG and MQDATA keywords with CREATE MQ SCRIPT. MQLOG specifies the directory where the queue manager writes its log, and MQDATA specifies the directory that is used to hold the queue manager data files. All instances of the multi-instance queue manager use the specified directories.

User response: Reissue the CREATE MQ SCRIPT command, specifying values for MQLOG and MQDATA.

ASN2525E The PARALLEL SENDQS option is not supported because one or more of the databases in your configuration is DB2 for Linux, UNIX, and Windows. No script is generated.

Explanation: The PARALLEL SENDQS option is only supported if all of the databases that are involved in the configuration are on DB2 for z/OS.

User response: Specify DB2 for z/OS subsystems for the Q Capture and Q Apply servers and rerun the command.

ASN2526E The PARALLEL SENDQS option is not supported because the Q Capture control tables, Q Apply control tables, or both are at an architecture level that is lower than 1001. No script is generated.

Explanation: The PARALLEL SENDQS option is supported only if both Q Capture and Q Apply control tables are at architecture level of 1001 or higher.

User response: Migrate the control tables to the 1001 architecture level and rerun the command.

ASN2527I A value value was specified for the PARALLEL SENDQS option, which indicates that the send queue queue_name will run in multiplexing mode. All of the underlying parallel send queues for this send queue must exist before you start replication. A SQL script to create or alter the replication queue map was generated.

Explanation: Because the send queue will run in multiplexing mode, the Q Capture program expects all underlying parallel send queues to exist before replication is started. The number of send queues and channels that you create should match the value that was specified for PARALLEL SENDQS.

User response: Make sure that the appropriate number of queues are created before you start replication.

ASN2528I The number of parallel send queues for replication queue map queue_map_name was changed from old_value to new_value while the queue map is active. A script to alter the queue map was generated. After the script is run, make sure to reinitialize or stop and start the Q Capture program so that it begins to use the new value.

Explanation: The new value is not used until the Q Capture program rereads the properties of queue map, which requires that you reinitialize or stop and start Q Capture.

User response: Reinitialize or stop and start the Q Capture program.

ASN2529E Using a multiplexed send queue in two different queue maps is not supported. The send queue queue_name that was specified for replication queue map queue_map_name is also being used by replication queue map queue_map_name. The second queue map is defined to use send queue multiplexing. It uses num_parallel_sendqs send queues and also
specifies the send queue queue_name.

Explanation: The send queue that was specified for the queue map is being used by another queue map that is defined with multiplexing. Although there is no entry in the IBMQREP_SENDQUEUES table with this send queue name, it can be inferred that the send queue is already being used because of the base send queue name.

User response: Provide a different send queue name for the queue map that you are creating or altering and rerun the command.

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ASN2530I The replication queue map queue_map_name is defined with number parallel send queues. The validation checks are performed on all of the send queues.

Explanation: The ASNCLP program will perform validation checks on all of the parallel send queues that are specified for the queue map, and will also check all of the WebSphere MQ channels that are associated with the send queues.

User response: This message is for your information only. No action is required.

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ASN2531E The PARALLEL SENDQS option was specified with the CREATE MQ SCRIPT command, but the required keywords PLATFORM ZOS were not specified. No script is generated.

Explanation: Because send queue multiplexing is supported only on z/OS, if you specify the keywords PARALLEL SENDQS you must also specify PLATFORM ZOS.

User response: Specify the PLATFORM ZOS keywords and rerun the command.

---

ASN2539E The EXIST option was specified under the INCLUDE HISTORY clause to indicate that a history table exists on the target. However, no history table was found for the target table table_owner.table_name. No script was generated.

Explanation: The EXIST option specifies that a history table is already created for the target temporal table. In this situation the ASNCLP program creates a Q subscription for both the temporal table and the history table. The ASNCLP program was unable to find a history table, so no Q subscription was created.

User response: Take one of the following actions and rerun the CREATE QSUB command:

- Remove the EXIST clause and use the HIST_TARGET NAME keywords to specify a name for the history table so that the ASNCLP program can create the history table.
- Create the history table, alter the target table to enable versioning, and use the EXIST option.

---

ASN2540E The target table table_owner.table_name has the SYSTEM_TIME period column defined but the ASNCLP program did not find a history table. No script was generated.

Explanation: To create a Q subscription for a target temporal table, the table must have an associated history table. Versioning also must be enabled on the table to make it a complete system temporal table.

User response: Create the history table, alter the target table to add versioning, and rerun the CREATE QSUB command.

---

ASN2541E A primary key or unique index was detected on the IBMQREPVERTIME column or IBMQREPVERNODE column in the source table table_name on server server_name. Q subscriptions for peer-to-peer replication do not allow primary keys or unique indexes on these columns.

Explanation: The IBMQREPVERTIME and IBMQREPVERNODE columns are used to track different versions of row changes in peer-to-peer replication. These columns are reserved for use by Q Replication and cannot have primary keys or unique indexes.

User response: Remove the primary key or unique index that is defined on the IBMQREPVERTIME column, IBMQREPVERNODE column, or both, and then reissue the action to create a Q subscription.
Chapter 41. ASN3500 - ASN3999

ASN3750I The exception-reporting tool successfully started.

Explanation: In response to an asnqexrp command, the replication exception-reporting tool successfully started.

User response: This message is for your information only. No action is required.

ASN3751I The exception-reporting tool will use the most recent start time of the Q Capture program as the start time for generating an exceptions report.

Explanation: By default, the exception-reporting tool uses the most recent Q Capture start time as the start time for the exceptions report. The tool uses the timestamp when all stranded changes have been delivered and processed at the failover site as the end time of the report. You can change the start and end times by using the exception_report_start and exception_report_end parameters of the asnqexrp command.

User response: This message is for your information only. No action is required.

ASN3752I The exception-reporting tool will use the timestamp when all stranded changes have been delivered and processed at the failover site as the end time of the exceptions report.

Explanation: By default, the exception-reporting tool uses the most recent Q Capture start time as the start time for the exceptions report, and the timestamp when all stranded changes have been delivered and processed at the fail-over site as the end time of the report. You can change the start and end times by using the exception_report_start and exception_report_end parameters of the asnqexrp command.

User response: This message is for your information only. No action is required.

ASN3753I exception_number exceptions were detected during the duration time between the start of the reporting period exception_report_start (Q_Apply_time_zone) and the end of the reporting period exception_report_end (Q_Apply_time_zone).

Explanation: The exception reporting tool ran to completion and generated a report in the directory from which the asnqexrp command was invoked or in a directory that was specified by the file parameter.

User response: This message is for your information only. Review the generated exception report.

ASN3754I No exceptions were found during the duration time between the start of the report period from exception_report_start (Q_Apply_time_zone) to the end of the report period exception_report_end (Q_Apply_time_zone).

Explanation: The exception reporting tool ran to completion and generated a report in the directory from which the asnqexrp command was invoked or in a directory that was specified by the file parameter. No exceptions were found during the reporting period.

User response: This message is for your information only. No action is required.

ASN3755E An invalid timestamp timestamp was used with the exception_report_start parameter when the exception-reporting tool started. The tool will stop.

Explanation: The exception_report_start parameter requires a timestamp that uses any of the following formats: YYYY-MM-DD-HH.MM.SS.ssssss, YYYY-MM-DD-HH.LMM.MS, YYYY-MM-DD-HH.MM, YYYY-MM-DD-HH, and YYYY-MM-DD.

User response: Restart the tool and specify a timestamp in a valid format.

ASN3756E An invalid timestamp timestamp was used with the exception_report_end parameter when the exception-reporting tool was started. The tool will stop.

Explanation: The exception_report_end parameter requires a timestamp that uses any of the following formats: YYYY-MM-DD-HH.MM.SS.ssssss, YYYY-MM-DD-HH.LMM.MS, YYYY-MM-DD-HH.MM, YYYY-MM-DD-HH, and YYYY-MM-DD.

User response: Restart the tool and specify a timestamp in a valid format.

ASN3757E An invalid timestamp timestamp was used with the exception_report_end parameter when the exception-reporting tool was started. The end time should be larger than the sum of the start time timestamp plus the monitor interval interval_value. The tool will stop.
Explanation: When you specify an end point for the exceptions report, the timestamp that you provide for the exception_report_end parameter must be at least as long as one Q Apply monitor interval (specified by the monitor_interval parameter). The default Q Apply monitor interval is 60000 milliseconds or 1 minute on z/OS and 30000 milliseconds or 30 seconds on Linux, UNIX, and Windows. Typically the exception-reporting period would be significantly longer than one monitor interval.

User response: Restart the tool and specify a timestamp with an appropriate value.

---

**ASN3760W** The exception report that was generated by the asnqexrp command might not be accurate and complete because the Q Apply program was stopped during the exception-reporting window from timestamp to timestamp. This stoppage might have occurred before Q Apply finished writing all monitor statistics to the IBMQREP_APPLYMON table.

Explanation: The exceptions reporting tool detected transactions that might have been applied but were not reported in the IBMQREP_APPLYMON table. Two things could have occurred:

- Q Apply was stopped before transactions or stranded transactions were applied.
- All transactions or stranded transactions were applied but the statistics in the IBMQREP_APPLYMON table do not reflect all of the transactions.

User response: If you believe that Q Apply was stopped before all transactions or stranded transactions were applied, restart Q Apply and let it run until the value in the ROWS_PUBLISHED column of the IBMQREP_APPLYMON table is 0 for three consecutive monitor intervals. To avoid this problem in the future, take one of the following actions:

- Shorten the value of the Q Apply monitor_interval parameter so that it is less than 60000 milliseconds.
If Q Apply must be stopped, let it run until the value in the ROWS_PUBLISHED column of the IBMQREP_APPLYMON table is 0 for three consecutive monitor intervals.

The exception-reporting tool detected that the Q Apply program is still processing data. The exception report might not be accurate and complete.

**Explanation:** The exception-reporting tool determined that Q Apply is still applying changes. Some of these changes might be stranded transactions that might cause exceptions. Thus the tool cannot provide a full report.

**User response:** Take one of the following actions:

- Reissue the asnqexrp command with a timestamp for the exception_report_end parameter.
- Reissue the asnqexrp command until this warning message is not returned. By doing this, you can verify that Q Apply has finished processing all transactions that were stranded by the outage.

The exception-reporting tool could not determine when the Q Apply program finished processing stranded transactions. The value of the exception-reporting window end time will appear as "N/A" in the report.

**Explanation:** To generate a report of all exceptions that occurred during the processing of stranded transactions, the tool needs information from the Q Apply program. The following problems might have occurred:

- There is no row in the IBMQREP_APPLYMON table at the failover site where the value of ROWS_NOT_APPLIED or ROWS_APPLIED is greater than zero and MONITOR_TIME is later than the start time of the exception-reporting window.
- The Q Apply program is still running.

**User response:** Take one of the following actions, depending on the reason for the problem:

- Reissue the asnqexrp command and specify an approximate timestamp for the exception_report_start parameter.
- Wait for three Q Apply monitor intervals and then reissue the asnqexrp command.
- Reissue the asnqexrp command with the exception_report_start and exception_report_end parameters to specify both the start time and end time of the exception-reporting window.
Chapter 42. ASN4000 - ASN4499

ASN4003E  program_name : program_identifier : The data type or the length of the source column source_col and of the target column target_col are not compatible.
Explanation:  See message text.
User response:  Rerun the command ensuring that you compare columns of equal type, precision, and length.

ASN4004E  program_name : program_identifier : The program encountered an SQL error at line line_number. The function name is function_name. The SQLCODE is sqlcode. The SQLSTATE is sqlstate.
Explanation:  A negative SQLCODE was returned when the program executed an EXEC SQL statement or CLI call. This message sometimes is followed by a second message that provides more information about the action being executed by the program when the SQLCODE was encountered.
User response:  See the messages and codes documentation of the DB2 database manager on your operating system for an explanation of this SQLCODE and for information about corrective actions that might need to be taken. If the program issued another message following this one, see the explanation and user response for that message. The line and function information are for IBM Software Support only.

ASN4005E  program_name : program_identifier : The program encountered an SQL warning at line line_number. The function name is function_name. The SQLCODE is sqlcode. The SQLSTATE is sqlstate.
Explanation:  A warning SQLCODE was returned when the program executed an EXEC SQL statement or CLI call. This message sometimes is followed by a second message that provides more information about the action being executed by the program when the SQLCODE was encountered.
User response:  See the messages and codes documentation of the DB2 database manager on your operating system for an explanation of this SQLCODE and for information about corrective actions that might need to be taken. If the program issued another message following this one, see the explanation and user response for that message. The line and function information are for IBM Software Support only.

ASN4006E  program_name : program_identifier : The rows that were fetched from the source table were not in the order of the dynamic collation. The program stopped.
Explanation:  The cursor that was used to fetch rows

ASN4007E  program_name : program_identifier : The program found an incorrect subscription definition. Reason code: reason_code.
Explanation:  Possible reason codes are:
1. The target table did not have key columns specified in the IS_KEY column of the IBMSNAP_SUBS_COLS table or the IBMQREP_TRG_COLS table.
2. No columns for the table were found for the target table in the IBMSNAP_SUBS_COLS table or the IBMQREP_TRG_COLS table.
User response:  Run the Analyzer for details to help you fix the subscription definition. Use the replication administration tools to fix the subscription definition. Rerun the asntdiff or asntrep command.

ASN4008E  program_name : program_identifier : The program stopped because the WHERE parameter where_clause caused a DB2 PREPARE statement to fail.
Explanation:  The program stopped because the specified WHERE parameter caused an SQL PREPARE statement to fail. This statement is necessary to obtain the name of the target table by selecting rows from the IBMSNAP_SUBS_MEMBR table for SQL Replication or from the IBMQREP_TARGETS table for Q Replication.
User response:  Use an interactive command line processor to debug the WHERE clause for the appropriate control table: IBMSNAP_SUBS_MEMBR or IBMQREP_TARGETS. Rerun the command using the valid WHERE clause in the WHERE parameter.

ASN4009E  program_name : program_identifier : The rows that were fetched from the source table were not in the order of the dynamic collation. The program stopped.
Explanation:  The cursor that was used to fetch rows
from the source table fetched the rows out of order. This problem occurs because the actual collation of the key columns in the source table did not match the estimated collating sequence that was determined by using the difference table. The difference table may have been created in a table space that has different attributes than the table space that contains the source table. Alternatively, the date or timestamp format may be different between the source and target.

**User response:** For information about creating the difference table in the correct table space, see the Technote, "Code page and table space considerations for running asntdiff."

If your table contains date or timestamp formats, see the Technote, "Why I am getting asn4009e or value of 'U 2' in DIFF column for every row from asntdiff when source and target tables are identical."

**ASN4010I**

Program Name: program_identifier

Number of differences found between the source and target table: number. The details can be found in database source_DB, difference table difference_table.

**Explanation:** See message text.

**User response:** Review the difference table and, if necessary, run the asntrep command to fix the differences.

**ASN4011I**

Program Name: program_identifier

No differences were found between the source and target tables.

**Explanation:** See message text.

**User response:** This message is for your information only. No action is required.

**ASN4012I**

Program Name: program_identifier

The program is comparing tables using the list of parameters following this message.

**Explanation:** See message text.

**User response:** This message is for your information only. No action is required.

**ASN4013E**

Program Name: program_identifier

The program stopped because the WHERE clause was not valid. It returned number_of_rows subscription members or Q subscriptions.

**Explanation:** The clause provided in the WHERE parameter returned no row or more than one row from either the IBMSNAP_SUBS_MEMBR or IBMQREP_TARGETS table.

**User response:** Delete the difference table or invoke the asntdiff program with parameter DIFF_DROP=Y.

**ASN4014E**

Program Name: program_identifier

The source table structure source_structure is not supported.

**Explanation:** The following source table structures are supported for SQL Replication: user, replica, user copy, and point-in-time. Only user tables are supported for Q Replication.

**User response:** Modify the WHERE clause to select a supported source structure and rerun the asntdiff or asntrep command.

**ASN4015E**

Program Name: program_identifier

The target table structure target_structure is not supported.

**Explanation:** The following target table structures are supported for SQL Replication:

- User tables
- Replica tables
- User copy tables
- Point-in-time tables
- Consistent-change-data (CCD) tables that are condensed and complete

The following target table structures are supported for Q Replication:

- User tables
- Consistent-change-data (CCD) tables that are condensed and complete

**User response:** Modify the WHERE clause to select a supported target structure and rerun the asntdiff or asntrep command.

**ASN4018E**

Program Name: program_identifier

The difference table table_owner_table_name already exists in database database_name and its columns are not compatible with the key columns for the source table.

**Explanation:** The difference table already existed and the asntdiff program is trying to reuse the table to write the differences. The key column information in the table does not match the key columns of the current source table for which the asntdiff program is run.

**User response:** Delete the difference table or invoke the asntdiff program with parameter DIFF_DROP=Y.
assign the rows from the difference table to the target table as follows: number rows were inserted, number rows were updated, and number rows were deleted.

**Explanation:** The message summarizes the differences that were applied to the target table to synchronize it with the source table.

**User response:** This message is for your information. No action is required.

---

program_name : program_identifier : The value in the SUPPRESS DELETES column is set to Y for this subscription, so number deletes were ignored.

**Explanation:** When the SUPPRESS DELETES value for a subscription is Y, the asntdiff program ignores the rows that are unique to the target and reports no differences. SUPPRESS DELETES=Y prompts Q Capture and SQL Capture to not process deletes for a subscription. This may result in rows that exist in the target table but not in the source table.

**User response:** This message is for your information. No action is required.

---

program_name : program_identifier : The difference table table_owner.table_name does not exist at the Classic replication server server_name. The program stopped.

**Explanation:** The difference table that is required to run the asntdiff utility does not exist at the Classic replication server. The utility does not automatically create the difference table. The table must be created manually.

**User response:** Create the difference table at the Classic replication server and issue the asntdiff command.

---

program_name : program_identifier : The file system that contains spill key file spill_filename ran out of space after number keys were spilled to the file. The program stopped.

**Explanation:** The asntdiff utility temporarily spills keys that it reads from the source table to disk when a memory limit is reached. The file system that contains this spill file ran out of space while the utility was writing keys to it. Unless all keys can be written to the spill file, the asntdiff utility cannot continue. By default, the utility will create the spill file in the temporary directory.

**User response:** Either free space on the file system temporary directory that is being used to spill keys, or invoke the asntdiff utility with the diff_path parameter to specify a directory with more space. To view the path of the temporary file, run the asntdiff command with the DEBUG=Y option.

---

program_name : program_identifier : The program encountered an SQL error at line line_number. The function name is function_name. The SQLCODE is sqlcode. The SQLSTATE is sqlstate.

**Explanation:** An SQLCODE was returned when the program executed an ODBC/CLI statement against a Classic server. This message sometimes is followed by a second message that provides more information about the action that the program was executing when the error occurred.

**User response:** See the Classic system messages in the IBM WebSphere Classic information center for an explanation of this SQLCODE and for information about corrective actions. If the program issued another message after this one, see the explanation and user response for that message. The line number and function name are for IBM Software Support only.

---

program_name : program_identifier : The repair table table_owner.table_name already exists in database database_name and its columns are not compatible with the columns of the difference table table_owner.table_name in database database_name.

**Explanation:** A repair table at the target database is a copy of the difference table at the source database that contains only the keys to be deleted. In this instance, the repair table already exists from a previous asntrep command invocation, but the table contains incompatible columns.

**User response:** Delete the repair table and then reissue the asntrep command, or issue the command with the parameter DIFF DROP=Y.

---

program_name : program_identifier : An error occurred while parsing the RANGECOL option. The asntdiff program stopped.

**Explanation:** The RANGECOL option was specified but the syntax was incorrect.

**User response:** Specify the correct RANGECOL syntax.

---

program_name : program_identifier : The SQL data type of the source column that was specified for the RANGECOL option is invalid. Valid data types are DATE, TIME, or TIMESTAMP.
Explanation: Either the wrong column was specified for the RANGECOL option, or the specified column has an incorrect data type.

User response: Specify a source column of DATE, TIME, or TIMESTAMP data type and rerun the program.

ASN4028E  program_name : program_identifier : An error was detected while accessing the IBMTDIFF_REFRESH table. The sqlcode is sql_code

Explanation: DB2 returned an error while the ASNTDIFF program was trying to access the IBMTDIFF_REFRESH table to process the RANGECOL option.

User response: Take the data truncation into account when you interpret the results of the asntdiff command. You can use the asntdiff -f option to explicitly cast a TIMESTAMP column to a given precision for the comparison.

ASN4035W  program_name : program_identifier : Database database_name has VARCHAR2 support enabled. The asntdiff program cannot differentiate between NULL values and empty strings at this database.

Explanation: With VARCHAR2 support enabled, a database treats NULL values and empty character strings as equivalent. When comparing character data with another database that does not have VARCHAR2 support enabled, the asntdiff program treats NULL values and empty strings as different values and flags a difference. For example, empty strings at two databases would be treated as different values because the database with VARCHAR2 support enabled converts the empty string to a NULL value.

User response: When you interpret the results of the asntdiff command, take these differences into account.
User response: Do not use the asntrep utility to repair
the table if you suspect that a large number of the
operations that it would make are due to the effect of
the change condition that is being used by Q Capture.
Repairing the target table in this manner would undo
the effect of filtering at the source.

**ASN4039W**

The asntdiff utility was unable to verify the
existence of the difference table table_name. A select query against the
catalog table table_name at the source
server server was rejected. A select query
against the difference table also was not
allowed. The SQLCODE is sqlcode. The
SQLSTATE is sqlstate. The SQLERRMC is sqlerrmc.

Explanation: The difference table is created in the
source database or subsystem to store differences that
the asntdiff utility finds. If you specify DIFF_DROP=N,
you can create the difference table yourself; otherwise
the utility creates the table. The utility was unable to
verify the existence of a difference table at the specified
server. The SQLCODE and SQLSTATE explain the
reasons that the queries that were used for verification
were rejected.

User response: Check the SQLCODE and SQLSTATE
information. Look for additional error messages such as
ASN4040W or ASN4041E that contain information
about how to fix the problem.

**ASN4040E**

The asntdiff command creates a
difference table in the source database or subsystem to
store differences that it finds. The utility was unable to
create a difference table at the specified server. The
SQLCODE and SQLSTATE explain the
reason.

User response: Check the SQLCODE and SQLSTATE
and fix any problems that are preventing asntdiff from
creating a difference table. Then reissue the asntdiff
command.

**ASN4041E**

The difference table table_name was not
created even though the value of N for
the DIFF_DROP parameter specifies that
the table will be created manually rather
than automatically by asntdiff. The
program will stop.

Explanation: With DIFF_DROP=N, the asntdiff utility
expects to find a user-created difference table at the
source database or subsystem. The utility looks for a
table with the default schema and name of
ASN.ASN4TDIFF unless you use the DIFF and
DIFF_SCHEMA parameters to specify a different
schema and name. The utility was unable to find the
specified table.

User response: Set the DIFF_DROP parameter to Y if
you want the asntdiff utility to create the difference
table automatically. Otherwise, create the difference
table manually before you run asntdiff again.

**ASN4043W**

The asntdiff utility tried to change the SQL
authorization ID to id, but the attempt
to issue a SET CURRENT SQLID query
against the server server failed. The
SQLCODE is sqlcode. The SQLSTATE is sqlstate. The SQLERRMC is sqlerrmc. The
utility will continue the work using the
current SQL authorization ID.

Explanation: You can specify the SOURCE_SQLID or
TARGET_SQLID parameters to change the SQL
authorization ID that is used by the asntdiff utility to
perform database operations. The utility uses SET
CURRENT SQLID to perform this change, but the
operation failed. The SQLCODE and SQLSTATE
explain the reason.

User response: Check the SQLCODE and SQLSTATE
for explanations of why the SET CURRENT SQLID
operation failed. Fix any problems and then reissue the
asntdiff command.

**ASN4045E**

The asntdiff utility was unable to create a
global temporary table at the specified server. The
SQLCODE and SQLSTATE explain the
reason.

User response: Check the SQLCODE and SQLSTATE
for explanations of why asntdiff could not create a
global temporary table at the server. Fix any problems
and then reissue the asntdiff command.

**ASN4046E**

The asntdiff utility was unable to insert data
into the table table_name at the server
server. The SQLCODE is sqlcode. The
SQLSTATE is sqlstate. The SQLERRMC is sqlerrmc. The program will stop.

Explanation: As part of its processing, the asntdiff
utility creates a global temporary table at the specified
server and performs inserts. The utility was unable to
insert the records into the specified table. The
SQLCODE and SQLSTATE explain the reason.

User response: Check the SQLCODE and SQLSTATE for explanations of why asntdiff could not insert records into the global temporary table. Fix any problems and then reissue the asntdiff command.

---

ASN4047E  program_name : program_identifier : The asntdiff utility was unable to select data from the table table_name at the server server. The SQLCODE is sqlcode. The SQLSTATE is sqlstate. The SQLERRMC is sqlerrmc. The program will stop.

Explanation: The asntdiff utility was unable to issue a SELECT statement against the specified table. The SQLCODE and SQLSTATE explain the reason.

User response: Check the SQLCODE and SQLSTATE for explanations of why asntdiff could not issue a SELECT statement against the table. Fix any problems and then reissue the asntdiff command.

---

ASN4050W  program_name : program_identifier : The asntdiff utility was unable to determine if the SELECT statement uses expression_or_alias for key columns.

Explanation: To automatically determine the value of the NUMBLOCKS parameter, the asntdiff utility must determine if the statements that were specified for the SOURCE_SELECT and TARGET_SELECT parameters use expressions or aliases for key columns. The utility could not determine whether expressions or aliases are used.

User response: If the expressions or alias are not used for the key columns, this warning message can be ignored. Otherwise, to achieve a better performance, remove the key columns from the SELECT statements or change the ORDER BY clauses in SOURCE_SELECT or TARGET_SELECT parameters. If neither of these changes is possible, set the value of the NUMBLOCKS parameter to 1 before the next run.

---

ASN4052E  program_name : program_identifier : The asntdiff utility was unable to create more parallel threads because of a system resource limit. The program will stop.

Explanation: An operating system thread limit was reached for the user ID that runs the asntdiff utility. The asntdiff utility creates at least six threads for parallel table comparison when the PARALLEL parameter is specified. The number of threads can be higher when you use the NUMTHREADS parameter.

User response: Take one of these actions:

- Increase the resource limit for the BPXPRMxx member of the PARMLIB: MAXTHREADS and MAXTHREADTASKS. For running the asntdiff utility in the parallel option, the minimum number of threads is six. To achieve the best performance, you should set the system thread limit to 21 or larger.
- Lower the value of the NUMTHREADS parameter.

---

ASN4053E  program_name : program_identifier : The asntdiff utility ran out of memory space. The program will stop.

Explanation: The asntdiff utility is unable to compare the tables because of insufficient memory allocation.

User response: Take one of these actions:

- On z/OS, increase the region size.
- When using the parallel option, reduce the value of the NUMTHREADS parameter.

---

ASN4055E  program_name : program_identifier : An error occurred while the asntdiff utility was terminating an existing thread. The program will stop.

Explanation: Some threads of the asntdiff utility are waiting for returns from the stored procedure calls from DB2.

User response: Kill the threads manually and set the value of parameter NUMBLOCKS to zero before the next run. You can use the -DISPLAY THREAD command to get status information about the threads.

---

ASN4056I  program_name : program_identifier : The asntdiff utility received a user signal to stop the compare operation. The program will stop.
**Explanation:** The utility received an operating system signal to cease operations that was initiated by user input.

**User response:** This message is for your information only. No action is required.

**ASN4058E**  
_program_name_: _program_identifier_: The asntdiff utility, running in parallel mode, is unable to compare the two specified tables because their code pages (CCSID) are different. The program will stop.

**Explanation:** The result sets of the queries that were used for the SOURCE_SELECT and TARGET_SELECT parameters have different CCSID values. This situation can occur when the DB2 subsystems that contain the two tables that are being compared use different code pages. The parallel option requires that both result sets have the same CCSID value.

**User response:** Change the value of the PARALLEL parameter from Y to N and rerun the utility.

**ASN4059E**  
_program_name_: _program_identifier_: The asntdiff utility in parallel mode cannot be run in this environment. The program will stop.

**Explanation:** With this release, the asntdiff utility in parallel mode cannot be run in this environment.

**User response:** Change the value of the PARALLEL parameter from Y to N and rerun the utility.

**ASN4060I**  
_program_name_: _program_identifier_: The asntdiff utility changed the value of the NUMBLOCKS parameter to _value_. The reason code is _reason_code_.

**Explanation:** The value for NUMBLOCKS was reduced. The following values are valid for the reason code:

1. Each block contains too few rows.
2. The source table contains too few rows.
3. An alias was used for key columns.
4. An expression was used as a key column for the SQL statement that was used with the SOURCE_SELECT or TARGET_SELECT parameter.
5. An eligible index cannot be found based on the provided ORDER BY clauses.
6. At least one instance of the unsupported keyword DESC is used with the SOURCE_SELECT or TARGET_SELECT parameters.

**User response:** To improve performance, review the reason codes in the explanation and take the appropriate action:

1. Reduce the value of the NUMBLOCKS parameter.
2. Change the value of the PARALLEL parameter from Y to N.
3. Remove the alias from the SELECT statements in the SOURCE_SELECT or TARGET_SELECT parameters.
4. Remove the expression from the SELECT statements or change the ORDER BY clauses in the SOURCE_SELECT or TARGET_SELECT parameters.
5. Respond to reason code code 5 in one of the following ways:
   - Create an eligible index for the key columns.
   - Change the ORDER BY clauses in the SOURCE_SELECT or TARGET_SELECT parameters.
6. Remove the DESC keyword from any SQL query that is used for the SOURCE_SELECT parameter or the TARGET_SELECT parameter.

**ASN4061E**  
_program_name_: _program_identifier_: The number of columns (_number_) in the SQL statement that was used with the SOURCE_SELECT parameter does not equal the number of columns (_number_) that were used with TARGET_SELECT. The two statements must have the same number of columns for the tables to be compared. The program will stop.

**Explanation:** The number of columns that are used with SOURCE_SELECT must match the number of columns that are used with TARGET_SELECT.

**User response:** Change the SQL statements that are
used with SOURCE_SELECT and TARGET_SELECT and rerun the asntdiff utility.

ASN4062E  program_name : program_identifier :
Column column_name with data type data_type is not supported as a non-key column for the asntdiff utility when it runs in parallel mode. The program will stop.

Explanation: When you specify the PARALLEL parameter to run the asntdiff utility in parallel mode, comparison of columns with the specified data types is not supported.

User response: Remove references to columns with unsupported data types from the queries that are used with the SOURCE_SELECT and TARGET_SELECT parameters, then rerun the asntdiff utility. If the column references cannot be removed, rerun the utility with PARALLEL=N.

ASN4063E  program_name : program_identifier : The asntdiff utility, running in parallel mode, is unable to process the SQL statement statement that was used with the SOURCE_SELECT or TARGET_SELECT parameter. The program will stop.

Explanation: The query statement that was used with the SOURCE_SELECT or TARGET_SELECT parameter does not use the expected format.

User response: Rewrite the statement using the following format:

SELECT xxx FROM yyy (WHERE zzz) ORDER BY aaa
Then rerun the asntdiff utility. If the statement cannot be rewritten in this format, rerun the asntdiff utility with PARALLEL=N.

ASN4064E  program_name : program_identifier : The provided value value for the NUMTHREADS parameter is too small. The value should be between 6 and 21. The program will stop.

Explanation: The asntdiff utility, running in parallel mode, must create at least six threads. For optimal performance NUMTHREADS should be set to 21.

User response: Increase the system resource limit for application threads if necessary and set the value of NUMTHREADS to 21. Then rerun the asntdiff utility. If the NUMTHREADS value cannot be increased because of a system resource limit, rerun the utility with PARALLEL=N.

ASN4065W  program_name : program_identifier : The parameter parameter is only used for environment. The value will be ignored in this run.

Explanation: The specified parameter can only be used in some environments. The parameter is ignored in this run.

User response: Remove the parameter in future runs.

ASN4066I  program_name : program_identifier : Table partitioning was unsuccessful. The comparison will be performed in one pass against the entire results set.

Explanation: The asntdiff utility was unable to partition the table due to an unsuccessful statement rewrite or a failure in data fetching from the source table.

User response: Check the SQLCODE and SQLSTATE in ASN0552E, if issued.

ASN4067E  program_name : program_identifier : Table partitioning was unsuccessful. The program will stop.

Explanation: The asntdiff utility was unable to partition the table because of an unsuccessful statement rewrite or a failure in fetching data from the source table.

User response: Set the value of parameter NUMBLOCKS to one before the next run.

ASN4069E  program_name : program_identifier : The stored procedure procedure_name that is used by the asntdiff utility in parallel mode was unable to return the expected results. Reason: reason. The program will stop.

Explanation: The specified stored procedure failed. The reason message from the stored procedure explains the problem.

User response: Check the reason message. At the server, verify that the stored procedure is correctly defined and that the configuration of the Workload Manager environment is valid. Then rerun the utility.

ASN4070E  program_name : program_identifier : The stored procedure procedure_name was not bound at the server server. SQLERRMC sqlerrmc. The program will stop.

Explanation: The asntdiff utility was able to run the specified stored procedure that is required for parallel mode. But the embedded SQL statements in the stored procedure cannot be executed. The associated DBRM was not found by DB2. See the text for the SQLCODE -805.
Bind the DBRM of the stored procedure before the next run. For information on binding asntdiff, see the ASNQBNDT sample data set.

**ASN4072E**

Program name: program_identifier

The asntdiff utility was unable to issue the DB2 stored procedure procedure_name at the server server. The SQLCODE is sqlcode. The SQLSTATE is sqlstate. The SQLERRMC is sqlerrmc. The program will stop.

**Explanation:** The asntdiff utility was unable to run the specified stored procedure. The SQLCODE and SQLSTATE explain the reason.

**User response:** Check the SQLCODE and SQLSTATE. At the server, verify that the definition of the stored procedure is correctly specified and the configuration of the Workload Manager environment is valid.

**ASN4073E**

Program name: program_identifier

The ORDER BY clauses that were used with the asntdiff input parameters SOURCE_SELECT and TARGET_SELECT are different. The command failed.

**Explanation:** When you use the asntdiff -f (file) option, you specify the SOURCE_SELECT and TARGET_SELECT parameters to provide SQL SELECT statements that specify the rows that you want to compare in the source and target tables. An ORDER BY clause is required in each of these SQL statements, and the ORDER BY clauses must be the same for both parameters.

**User response:** Change the SQL statements in the input file so that both ORDER BY clauses match, and reissue the asntdiff command.

**ASN4074E**

Program name: program_identifier

The column or columns that are specified in the ORDER BY clauses for the SOURCE_SELECT and TARGET_SELECT parameters of the asntdiff command do not reference a unique key or unique composite key. The command failed.

**Explanation:** When you use the asntdiff -f (file) option, you specify the SOURCE_SELECT and TARGET_SELECT parameters to provide SQL SELECT statements that specify the rows that you want to compare in the source and target tables. The SQL statements must have an ORDER BY clause, and the clauses must reference a unique key or unique composite key.

**User response:** Rewrite the ORDER BY clauses in the input file and reissue the asntdiff command.

**ASN4075W**

Program name: program_identifier

The asntdiff utility was unable to drop the table table_name at the server server. The SQLCODE is sqlcode. The SQLSTATE is sqlstate. The SQLERRMC is sqlerrmc.

**Explanation:** The asntdiff utility was unable to issue a drop statement against the specified difference table or the global temporary table that it created. The SQLCODE and SQLSTATE explain the reason.

**User response:** Check the SQLCODE and SQLSTATE. Manually drop the specified table and rerun the utility.

**ASN4076E**

Program name: program_identifier

The asntdiff utility stopped because the file system that contains spill key file spill_filename is unable to store all of the key values of the source result set. In each comparison, the total size of key columns multiplied by the number of rows in the source table should be less than 2 GB.

**Explanation:** When the asntdiff utility reaches a memory limit, it temporarily spills key column values that it reads from the source table to disk. The maximum allowable size of the spill file is 2 GB. Unless it can write all key values to the spill file, the asntdiff utility stops.

**User response:** Split the compare operation into smaller tasks:

- For the -f (input file) command option, partition the original comparison by specifying ranges of rows to compare. You can use any combination of columns and choose the appropriate partition column values as the boundary values in the search conditions. Columns that you choose for range values should be indexed for better performance. The corresponding search conditions should be added into the WHERE clauses of both the SOURCE_SELECT and TARGET_SELECT parameters.

- If you are not using the -f option, partition the comparison by specifying the RANGECOL parameter to indicate ranges of rows to compare. The selected columns must be DATE, TIME, or TIMESTAMP. If columns with these data types are not available, try to run the asntdiff utility with the -f command option.
Chapter 43. ASN5000 - ASN5499

ASN5101I MONITOR monitor_qualifier. The Replication Alert Monitor program started successfully.

Explanation: This message appears after a successful start of the Replication Alert Monitor program.

User response: This message is for your information only, and no action is required.

ASN5102I MONITOR monitor_qualifier : The Replication Alert Monitor version version_number program initialized successfully and is monitoring number alert conditions.

Explanation: The Replication Alert Monitor program successfully started.

User response: This message is for your information only, and no action is required.

ASN5103I MONITOR monitor_qualifier. The Replication Alert Monitor program re-initialized successfully and is monitoring number-of-alert-conditions alert conditions.

Explanation: The Replication Alert Monitor program successfully re-initialized.

User response: This message is for your information only, and no action is required.

ASN5104W MONITOR monitor_qualifier. number-of-alert-conditions alert conditions were ignored.

Explanation: The Replication Alert Monitor program initialized or re-initialized. Some alert conditions that are not valid might be excluded as noted in previously issued messages.

User response: Check the IBMSNAP_CAPTRACE table for messages about excluded alert conditions.

ASN5107I MONITOR monitor_qualifier. The Replication Alert Monitor program stopped.

Explanation: The Replication Alert Monitor program terminated.

User response: This message is for your information only, and no action is required.

ASN5108W MONITOR monitor_qualifier. The EMAIL_SERVER parameter was not set so e-mail notification cannot be sent.

Explanation: You started the Replication Alert Monitor without specifying a value for the EMAIL_SERVER parameter, and the EMAIL_SERVER column in the IBMSNAP_MONPARMS table is empty. The Replication Alert Monitor will store any alerts in the IBMSNAP_ALERTS table.

User response: If you want to receive e-mail notification for alerts, restart the Replication Alert Monitor with the EMAIL_SERVER value set.

ASN5109W MONITOR monitor_qualifier. The MONITOR_ERRORS parameter was ignored because the EMAIL_SERVER parameter was not set.

Explanation: The Replication Alert Monitor started but the MONITOR_ERRORS parameter was ignored because there was no value specified for the EMAIL_SERVER parameter. The MONITOR_ERRORS parameter requires the EMAIL_SERVER parameter. The Replication Alert Monitor will store any alerts in the IBMSNAP_ALERTS table.

User response: If you want to be notified by e-mail when an alert occurs, restart the Replication Alert Monitor with the MONITOR_ERRORS parameter and the EMAIL_SERVER parameter set.

ASN5111I MONITOR monitor_qualifier. number-of-rows rows were pruned from the table schema.table-name at timestamp timestamp.

Explanation: The Replication Alert Monitor program pruned rows from the IBMSNAP_ALERTS or the IBMSNAP_MONTRACE table.

User response: This message is for your information only, and no action is required.

ASN5117E MONITOR monitor_qualifier. There are no valid Alert Conditions for this monitor qualifier on Monitor Server monitor_server.

Explanation: The Replication Alert Monitor program cannot find any alert conditions for this monitor qualifier.

User response: Verify that the monitor qualifier name used with the monitor_qual parameter is correct, and check that the alert conditions are enabled. Also, check
any previously issued messages.

**ASN5118E** MONITOR monitor_qualifier. The program cannot connect to the monitor control server server_name. The SQLCODE is sqlcode, and the SQLSTATE is sqlstate.

Explanation: The Monitor program tried to connect to the monitor control server and failed with the corresponding SQLCODE.

User response: Read the corresponding action for this SQLCODE, and correct the error.

**ASN5119E** MONITOR monitor_qualifier. The program cannot connect to the server server_name. The SQLCODE is sqlcode, and the SQLSTATE is sqlstate.

Explanation: An SQL CONNECT statement failed when the Monitor program tried to connect to the monitored Capture or Apply control server.

User response: Read the corresponding action regarding this SQLCODE, and correct the error.

**ASN5121E** MONITOR monitor_qualifier. A contact does not exist for the alert condition with a component of component, a server of server, a schema or qualifier of schema_or_qualifier, and a condition name of condition.

Explanation: The specified contact does not exist in the IBMSNAP_CONTACTS table for this alert condition.

User response: Verify the contact information, and correct the alert condition.

**ASN5122E** MONITOR monitor_qualifier. The contact group group-name does not exist or is empty. The component is component, the server is server, the schema or qualifier is schema_or_qualifier, and the condition name is condition.

Explanation: The contact group specified in an alert condition does not have corresponding contacts in the IBMSNAP_CONTACTGRP table or does not exist in the IBMSNAP_CONTACTGRP table. A contact group cannot be empty.

User response: Verify the contacts for this group, and correct the alert condition.

**ASN5123E** MONITOR monitor_qualifier. The table table_name was not found for program program_name. The server is server_name. The schema is schema. The condition name is condition_name.

Explanation: The Monitor program could not find a table while attempting to monitor a condition on the server used by the program.

User response: Verify that the table exists on the server, or correct the alert condition.

**ASN5124E** MONITOR monitor_qualifier. The table table-name is not found. The Apply control server is apply-control-server, The Apply qualifier is apply-qualifier, The subscription-set name is set-name. The condition name is condition-name.

Explanation: The Replication Alert Monitor program cannot find a table when attempting to monitor a condition on the Apply control server.

User response: Verify that the table exists on the Apply control server, or correct the alert condition.

**ASN5125E** MONITOR monitor_qualifier. The Apply qualifier apply-qualifier or the subscription set set-name is not found.

Explanation: The Replication Alert Monitor program cannot find the Apply qualifier or the subscription set when attempting to monitor a condition on the Apply control server.

User response: Verify that the Apply qualifier and the subscription set exist on the Apply control server, or correct the alert condition.

**ASN5126E** MONITOR monitor_qualifier. There is an error sending a notification. The return code is rc.

Explanation: When an alert notification was attempted, the ASNMAIL exit returned an error. The reasons for the error may include:

1. SMPT protocol failed. Verify the address of your e-mail server with your administrator.
2. SMPT socket failed. Verify the configuration of your e-mail server or client.
3. The e-mail address is not valid. Verify the e-mail address.
4. Software error.
99. ASNMAIL exit not found.

User response: For return codes 1 and 2, verify the configuration of your e-mail server and client. For
return code 3, check whether the e-mail address is correct. For return code 99, verify that the ASNMAIL exit is properly installed.

**ASN5127E**  MONITOR monitor_qualifier. An invalid value value exists in the column column-name of the table table-name.

**Explanation:** This message indicates that the Replication Alert Monitor program found a column with a value that is not valid during program initialization.

**User response:** Verify the values of the column definitions in the specified table.

**ASN5128W**  MONITOR monitor_qualifier. An alert condition was not processed because a row is missing from the table table-name. The condition name is condition_name, The server is server_name. The schema or qualifier is schema_or_qualifier.

**Explanation:** While processing an alert condition, the Monitor program did not find a row that was required in the specified table. These are the row requirements for the alert conditions:

- **CAPTURE_LASTCOMMIT** alert condition needs at least one row in the IBMSNAP_RESTART table.
- **CAPTURE_LATENCY** alert condition needs to read the global row (GLOBAL_RECORD = Y) in the IBMSNAP_REGISTER table.
- **APPLY_SUBSDELAY and APPLY_SUBSINACT** alert conditions need at least one row for the Apply qualifier specified in the IBMSNAP_SUBS_SET table.
- **QCAPTURE_SUBSINACT** alert condition needs a row for the subscription name in the IBMQREP_SUBS table.
- **QPAPPLY_QDEPTH and QPAPPLY_SPILLQDEPTH** alert conditions need a row in the IBMQREP_APPLYPARMS table.

**User response:** Verify that the replication program (Capture, Apply, Q Capture, or Q Apply) is running with the appropriate settings. Also, verify that the alert conditions are specified correctly. Perhaps the schema or server name is wrong.

**ASN5129I**  MONITOR monitor_qualifier. The Replication Alert Monitor on server server-name reports an e-mail alert.

**Explanation:** The Replication Alert Monitor program sent an e-mail alert.

**User response:** This message is for your information only, and no action is required.

**ASN5130I**  MONITOR monitor_qualifier, capture_message. The Capture control server is capture-server. The schema is schema. The monitor control server is monitor-server.

**Explanation:** The Replication Alert Monitor program retrieved a Capture program message from the IBMSNAP_CAPTRACE table when processing CAPTURE_ERRORS or CAPTURE_WARNINGS conditions.

**User response:** Read the Capture program message, and take appropriate action. Also, check any errors or warnings from the Capture control server.

**ASN5131I**  MONITOR monitor_qualifier, apply_message. The Apply control server is apply-server. The Apply qualifier is apply-qualifier. The monitor control server is monitor-server.

**Explanation:** The Replication Alert Monitor program retrieved an Apply program message from the IBMSNAP_APPLYTTL or the IBMSNAP_APPLYTRACE table when processing APPLY_SUBFAILING, APPLY_ERRORS, or APPLY_WARNINGS alert conditions.

**User response:** Read the Apply program message, and take appropriate action. Also, check any errors or warnings from the Apply control server.

**ASN5133I**  MONITOR monitor_qualifier. The following alert message_number has occurred number_of_times times in the last number_of_minutes minutes. The notification for this alert will be suspended.

**Explanation:** This message is issued after an alert has been detected the number of times specified in the MAX_NOTIFICATIONS_PER_ALERT parameter (the default is 3) for the number of minutes specified in the MAX_NOTIFICATIONS_MINUTES parameter (the default is 60 minutes).

**User response:** This message is for your information only, and no action is required.

**ASN5134I**  MONITOR monitor_qualifier. Alerts issued.

**Explanation:** The text of this message appears in the subject line of the e-mail alerts sent by the Replication Alert Monitor program.

**User response:** This message is for your information only, and no action is required.
ASN5135W  MONITOR monitor_qualifier. Too many alerts number_of_alerts for server server_name between lower_bound_time and upper_bound_time, schema or qualifier schema_qual_name, condition name condition_name.

Explanation: The Alert Monitor reached the maximum of alerts allowed for a monitor cycle (1024), or memory can not be allocated for them. The Alert Monitor will send the notifications and will update the Monitor control server and will reconnect to the server starting in the next condition. Some alerts for the specified alert condition might not be sent and inserted in the Monitor control server.

User response: You should verify the specified alert condition directly in the server to check if alerts were lost.

ASN5136W  MONITOR monitor_qualifier. There has been an error calling DAS component. The return code is rc for server server_name for schema or qualifier schema_qual_name and condition name condition_name.

Explanation: While processing the condition name for the given server, the DAS component returned an error.

User response: Verify that DAS is running properly in both the client and the remote server.

ASN5137E  MONITOR monitor_qualifier. An error occurred while calling the WebSphere MQ API. The condition name is condition_name. The server is server_name. The schema is schema. The queue manager is queue_manager. The queue name is queue_name. The MQI API is mqi_api_name. Reason code: reason_code.

Explanation: An unsuccessful reason code was generated by the WebSphere MQ API. Possible reasons are:

- WebSphere MQ is down at the specified server.
- The queue manager is not started.
- The queue name does not exist.

The Monitor program could not complete the action.

User response: Make sure that WebSphere MQ is running at the specified server and that the necessary objects exist, such as the queue manager and queue names.

ASN5150W  MONITOR monitor_qualifier. The program program_name is not running. The server is server_name, and the schema is schema.

Explanation: The alert condition STATUS indicates that the program specified in this message is not running.

User response: Verify the status of the program on the specified server.

ASN5151W  MONITOR monitor_qualifier. The elapsed time since the last commit of the Capture program exceeds the threshold value. The Capture control server is capture_server. The schema is schema. The last commit time is time. The threshold is seconds seconds.

Explanation: The CAPTURE_LASTCOMMIT alert condition detects that the difference between the current timestamp value and the value of the MAX_COMMIT_TIME column in the IBMSNAP_RESTART table is greater than the threshold value of this alert condition as specified by the PARM_INT column value in the IBMSNAP_CONDITIONS table.

User response: Check the Capture control server, and determine the reason for the commit delay.

ASN5152W  MONITOR monitor_qualifier. The current Capture latency exceeds the threshold value. The Capture control server is capture_server. The schema is schema. The Capture latency is latency seconds. The threshold is threshold seconds.

Explanation: The CAPTURE_CLATENCY alert condition detects that the difference between the CURR_COMMIT_TIME and the MAX_COMMIT_TIME column values in the IBMSNAP_RESTART table is greater than the threshold value of this alert condition as specified by the PARM_INT column value in the IBMSNAP_CONDITIONS table.

User response: Check the Capture control server, and determine the reason for the Capture latency.

ASN5153W  MONITOR monitor_qualifier. The latency exceeds the threshold value for program program_name. The server is server_name. The schema is schema. The latency is latency seconds. The threshold is threshold seconds.

Explanation: One of the following has occurred:

- While processing the CAPTURE_HLATENCY alert condition, the Monitor program detected that the difference between the MONITOR_TIME and the SYNCTIME column values in the IBMSNAP_CAPMON table is greater than the threshold value. The threshold value of the alert condition is specified in the PARM_INT column value in the IBMSNAP_CONDITIONS table.
- While processing the QCAPTURE_LATENCY alert condition, the Monitor program detected that the
difference between the MONITOR_TIME and the CURRENT_LOG_TIME column values in the IBMQREP_CAPMON table is greater than the threshold value. The threshold value of the alert condition is specified in the PARM_INT column value in the IBMSNAP_CONDITIONS table.

**User response:** Check the server to determine why the latency threshold is being exceeded.

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**ASN5154W** MONITOR monitor_qualifier. The memory used by the program program_name exceeds the threshold value. The server is server_name. The schema is schema. The amount of memory used is memory bytes. The threshold is threshold megabytes.

**Explanation:** While processing the CAPTURE_MEMORY or the QCAPTURE_MEMORY alert condition, the Monitor program detected that the value of the CURRENT_MEMORY column in the IBMSNAP_CAPMON table or in the IBMQREP_CAPMON table is greater than the threshold. The threshold value of the alert condition is specified in the PARM_INT column in the IBMSNAP_CONDITIONS table.

**User response:** Check the server to determine the reason for the excessive memory usage. Increase the memory_limit parameter of the program, if necessary.

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**ASN5155W** MONITOR monitor_qualifier. The memory used by the Q Apply program exceeds the threshold value. The QApply server is apply_server. The Q Apply schema is schema. The receive queue is queue_name. The amount of memory used is memory bytes. The threshold is threshold megabytes.

**Explanation:** While processing the QAPPLY_MEMORY alert condition, the Monitor program detected that the value of the CURRENT_MEMORY column in the IBMQREP_APPLYMON table is greater than the threshold value. The threshold value of the alert condition is specified in the PARM_INT column in the IBMSNAP_CONDITIONS table.

**User response:** Check the server to determine the reason for the excessive memory usage. If necessary, increase the value of the memory_limit parameter for the replication queue map that uses the specified receive queue.

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**ASN5156W** MONITOR monitor_qualifier. The size of a transaction exceeded the threshold for the program program_name. The server is server_name. The schema is schema. The transaction size is transaction_size bytes. The threshold is threshold megabytes.

**Explanation:** While processing the CAPTURE_TRANSIZE or the QCAPTURE_TRANSIZE alert condition, the Monitor program detected that the value of the column in the IBMSNAP_CAPMON or IBMQREP_CAPMON table is greater than the threshold value. The threshold value for the alert condition is specified in the PARM_INT column in the IBMSNAP_CONDITIONS table.

**User response:** Check the server to determine the reason for the excessive transaction size.
User response: If the full refresh was in error, verify the cause of the full refresh for this specified target table.

Explanation: The APPLY_SUBSDELAYED alert condition detected a subscription set that complies with the following conditions: CURRENT_TIMESTAMP minus LASTRUN is greater than the threshold.

User response: Check any previous messages to see if this subscription set has an error and to verify that the Apply program is running.

Explanation: The APPLY_REWORKED alert condition detects a subscription set with a value in the SET_REWORKED column of the IBMSNAP_APPLYTRAIL table that exceeds the specified threshold.

User response: Look for other messages to determine the reason that this many rows were reworked.

Explanation: The Replication Alert Monitor detected a failed subscription set that has the following information in the IBMSNAP_APPLYTRAIL table:

• STATUS column is not 0 or 2
• APPERRM column is NULL

User response: Examine the data in the IBMSNAP_APPLYTRAIL table at the Apply control server. If the row for the specified Apply qualifier does not contain information that indicates the source of the problem, contact IBM Software Support.

Explanation: The APPLY_TRANSREJECT alert condition detects rejected transactions for this subscription set.

User response: Verify the reason why these transactions were rejected.

Explanation: A full refresh is needed for the specified subscription set.

User response: Verify the reason why a full refresh is required.

Explanation: The APPLY_LATENCY alert condition detects that the end-to-end latency of this subscription set is greater than the threshold value of this alert condition as specified by the PARM_INT column value in the IBMSNAP_CONDITIONS table.

User response: Check the Apply control server to determine the reason for this excessive end-to-end latency value.
Explanation: While processing the QAPPLY_LATENCY alert condition, the Monitor program detected that the value of the APPLY_LATENCY column in the IBMQREP_APPLYMON table is greater than the threshold value. The threshold value of the alert condition is specified in the PARM_INT column in the IBMSNAP_CONDITIONS table.

User response: Check the Q Apply server to determine why the latency threshold is being exceeded.

Explanation: While processing the QAPPLY_EELATENCY alert condition, the Monitor program detected that the value of the END2END_LATENCY column in the IBMQREP_APPLYMON table is greater than the threshold value of this alert condition. The threshold value is specified in the PARM_INT column value in the IBMSNAP_CONDITIONS table.

User response: Check the Q Apply server to determine why the end-to-end latency is exceeding the threshold.

Explanation: While processing the QAPPLY_EXCEPTIONS alert condition, the Monitor program detected a row in the IBMQREP_EXCEPTIONS table. The SQLCODE or SQLSTATE explains the reason for the exception.

User response: Check the QAPPLY_EXCEPTIONS table on the server to determine the reason for the exception.

Explanation: While processing the QAPPLY_SPILLQDEPTH alert condition, the Monitor program detected that the depth of the spill queue for the associated receive queue exceeds the threshold value. The threshold value of the alert condition is in the PARM_INT column in the IBMSNAP_CONDITIONS table.

User response: Check the IBMQREP_APPLYTRACE table for additional information. Also, check the data in the IBMQREP_SPILLQS table, if available.

Explanation: While processing the QAPPLY_QDEPTH alert condition, the Monitor program detected that the depth of the queue exceeded the threshold value. The threshold value, specified as a percent, is in the PARM_INT column in the IBMSNAP_CONDITIONS table. The value is obtained by dividing the current depth by the maximum depth attribute of the queue, and then multiplying it by 100.

User response: Verify that the program is processing the transactions for the queue as expected. Also, verify that the queue is large enough for the volume of transactions being processed.

Explanation: While processing the QAPPLY_QDEPTH alert condition, the Monitor program detected that the depth of the queue exceeded the threshold value. The threshold value, specified as a percent, is in the PARM_INT column in the IBMSNAP_CONDITIONS table. The value is obtained by dividing the current depth by the maximum depth attribute of the queue, and then multiplying it by 100.

User response: Verify that the program is processing the transactions for the queue as expected. Also, verify that the queue is large enough for the volume of transactions being processed.

Explanation: All monitoring activities for the specified server are suspended because the monitor cycle is within the time, day, and duration for the specified suspension and template.

User response: This message is for your information. No action is required.

Explanation: All previously suspended monitoring activities for the specified server are resumed because the monitor cycle is later than the time, day or duration for any suspensions defined for the specified server.

User response: This message is for your information. No action is required.
Monitor monitor_qualifier : The send queue send_queue_name is inactive. The server is server_name. The Q Capture schema is schema_name. State information: information.

**Explanations:**
- **While processing the QCAPTURE_SENDQSINACT alert condition,** the monitor program detected an inactive send queue in the STATE column of the IBMQREP_SENDQUEUES table.
- **User response:** Use the replication administration tools or the state information that is provided in the message text to determine why the send queue was put in the INACTIVE state by Q Capture.

Monitor monitor_qualifier : The receive queue receive_queue_name is inactive. The server is server_name. The Q Apply schema is schema_name. State information: information. State Time: timestamp.

**Explanations:**
- **While processing the QAPPLY_RECVQSINACT alert condition,** the monitor program detected an inactive receive queue in the STATE column of the IBMQREP_RECVQUEUES table.
- **User response:** Use the replication administration tools or the state information that is provided in the message text to determine why the receive queue was put in the INACTIVE state by Q Apply.

Monitor monitor_qualifier : The number of deadlock retries for transactions on Q Apply receive queue receive_queue_name exceeded the threshold value. The server is server_name. The Q Apply schema is schema_name. The current number of deadlock retries is number. The alert threshold for deadlock retries is threshold.

**Explanations:**
- **While processing the QAPPLY_DEADLOCKRETRIES alert condition,** the Monitor program detected that the number of deadlock retries for transactions on the receive queue exceeded the alert threshold. For details on how the threshold value is determined, see "Alert conditions for the Replication Alert Monitor" in the IBM Information Management Software for z/OS Solutions Information Center or DB2 Information Center.
- **User response:** Check the environment. If a z/OS batch job is running, update the MAXAGENT_CORRELID value for the replication queue map that contains the receive queue to half the value of NUM APPLY AGENTS for the queue map. Both of these values are specified in the IBMQREP_RECVQUEUES table. For other OLTP transactions, check the environment to reduce the number of deadlocks.

Monitor monitor_qualifier : The Q Capture program did not send data for large object (LOB) columns because the transaction size exceeds the maximum message size for the send queue that was specified in the replication queue map or publishing queue map. The server is server_name. The schema is schema_name. The send queue is queue_name. The number of rejected LOB columns that could not be applied because they were too big to fit in the maximum message size is number.

**Explanations:**
- **The Q Capture program processed the row that contains LOB values but rejected the LOB data because it exceeded the value that was specified for max_message_size for the replication queue map or publishing queue map that contains the send queue. The data was too large for the transaction message.**
- **User response:** Use the replication administration tools to increase the max_message_size value for the replication queue map or publishing queue map. You might also need to increase the size of the MAXMSGL parameter for the WebSphere MQ send queue. Ensure that the value for the max_message_size parameter is at least 4KB smaller than value for the MAXMSGL parameter. If you cannot increase the max_message_size parameter, you can set the LOB_SEND_OPTION value in the IBMQREP_CAPPARMS table to S to send the LOB values in a LOB message after the transaction message. You need to issue the reinit command in either case. To synchronize the source and target tables, run the asntdiff and asntrep utilities.

Monitor monitor_qualifier : The Q Capture program did not send data for XML columns because the transaction size exceeds the maximum message size of the send queue that was specified in the replication queue map or publishing queue map. The server is server_name. The schema is schema_name. The send queue is queue_name. The number of rejected XML columns that could not be applied because they were too big to fit in the maximum message size is number.

**Explanations:**
- **The Q Capture program processed the row that contained XML values but rejected the XML data because it exceeded the value that was specified for max_message_size for the replication queue map or publishing queue map that contains the send queue.**
The data was too large for the transaction message. The QCAPTURE_XMLDOCSTOOBIG alert condition detects the number of XML columns that were not sent because they did not fit within the max_message_size value.

User response: Use the replication administration tools to increase the max_message_size value for the replication queue map or publishing queue map. You might also need to increase the size of the MAXMSGL parameter for the WebSphere MQ send queue. Ensure that the value for the max_message_size parameter is at least 4KB smaller than value for the MAXMSGL parameter. Run the reinitq command to prompt the Q Capture program to read the changes to the queue map. To synchronize the source and target tables, run the asntdiff and asntrep utilities.

ASN5183W  MONITOR monitor_qualifier: The Q Capture program exceeded the threshold for the number of retries to put messages on the send queue. The Q Capture server is server_name. The schema is schema_name. The WebSphere MQ send queue is queue_name. The number of retries is full_queue_retries and the monitor alert threshold for retries is threshold.

Explanation: The Q Capture program could not put a message on the send queue using the MQPUT command. This condition can occur for several reasons:

- The Q Apply program is not processing messages on the receive queue.
- The Q Apply program is stopped.
- The Q Capture program is putting messages on the queue faster than WebSphere MQ can process them.
- Many changes accumulated at the source table while the Q Capture program was stopped.

This error is more likely to happen in a queue-sharing environment.

The QCAPTURE_QFULLNUMRETRIES alert condition detects a send queue with a QFULL_NUM_RETRIES column value in the IBMSNAP_SENDQUEUES table that exceeds the specified threshold.

User response: Check for the possible causes listed in the "Explanation" section of this message. Also, check the WebSphere MQ reason code that the Q Capture program issued in its diagnostic log and take the appropriate action.

ASN5183W  MONITOR monitor_qualifier: message

Explanation: This message appears when a user-defined alert condition issues a warning message.

User response: Read the issued message, and take appropriate action.
ASN5192E  MONITOR  monitor_qualifier. message
Explanation: This message appears when a user-defined alert condition issues an error message.
User response: Read the issued message, and take appropriate action.

ASN5193E  MONITOR  monitor_qualifier. The stored procedure stored_proc_name was not found at server server_name. The condition name is condition_name. The schema is schema.
Explanation: The stored procedure that is required by the Monitor program was not found at the server while processing the alert condition.
User response: Verify that the CREATE PROCEDURE statement was issued at the correct server for the stored procedure name specified in the message.

ASN5194I  MONITOR  monitor_qualifier : The monitor program will monitor alert conditions within the following time range time_range for monitored server server_name.
Explanation: The monitor program looks for alert conditions that fall within the specified time range.
User response: This message is for your information only. No action is required.

ASN5200E  ASNSCRT: The replication process type is a required parameter and must be specified when invoking the asnsqrt command.
Explanation: The asnsqrt command was invoked without a specified replication process type.
User response: Enter the command again with a replication process type of -C, -A, or -M.

ASN5201E  ASNSCRT: The database instance is a required parameter and must be specified when invoking the asnsqrt command.
Explanation: The asnsqrt command was invoked without a specified database instance.
User response: Enter the command again with a database instance name.

ASN5202E  ASNSCRT: A replication process path is a required parameter and must be specified when invoking the asnsqrt command.
Explanation: The asnsqrt command was invoked without a specified replication process path.
User response: Enter the command again with a path to the asncap, asnpay, or a mon command.

ASN5203E  ASNSCRT: The Capture server is a required parameter and must be specified when invoking this asnsqrt command.
Explanation: The asnsqrt command was invoked without a specified Capture control server.
User response: Enter the command again with a Capture control server name.

ASN5204E  ASNSCRT: The Apply control server is a required parameter and must be specified when invoking this asnsqrt command.
Explanation: The asnsqrt command was invoked without a specified Apply control server.
User response: Enter the command again with an Apply control server name.

ASN5205E  ASNSCRT: The Apply qualifier is a required parameter and must be specified when invoking this asnsqrt command.
Explanation: The asnsqrt command was invoked without a specified Apply qualifier.
User response: Enter the command again with an Apply qualifier.

ASN5206E  ASNSCRT: The monitor control server is a required parameter and must be specified when invoking this asnsqrt command.
Explanation: The asnsqrt command was invoked without a specified monitor control server.
User response: Enter the command again with a monitor control server name.

ASN5207E  ASNSCRT: The monitor qualifier is a required parameter and must be specified when invoking this asnsqrt command.
Explanation: The asnsqrt command was invoked without a specified monitor qualifier.
User response: Enter the command again with a monitor qualifier.
ASN5208I  ASNSCRT: The replication service
service_name was created successfully.

Explanation: The asnsct command successfully
created the specified service.

User response: This message is for your information
only, and no action is required.

ASN5209I  ASNSCRT: The replication service
service_name started successfully.

Explanation: The asnsct command successfully
started the specified service.

User response: This message is for your information
only, and no action is required.

ASN5210E  ASNSCRT: The replication service
service_name was not created, because the
display name already exists (either as a
service name or as another display
name) in the service control manager
database.

Explanation: The asnsct command cannot create the
specified service, because the display name already
exists as another service name or display name in the
service control manager database.

User response: Go to service control manager
database, and remove the service with the duplicate
service or display name. Then re-enter the command.

ASN5211E  ASNSCRT: The replication service
service_name was not created, because the
specified service name is not valid.

Explanation: The asnsct command cannot create the
specified service, because the system API returned an
error code indicating that the service name is incorrect.
The specified service might contain special characters in
the instance name, database name, or schema name.
Special characters are not allowed in the service name.

User response: Change the instance name, database
name, or schema name if possible. Then re-enter the command.

ASN5212E  ASNSCRT: The replication service
service_name was not created, because the
specified service name already exists.

Explanation: The asnsct command cannot create the
specified service, because another service with the same
service name already exists in the service control
manager.

User response: Remove the existing service with the
same service name. Then re-enter the command.

ASN5213E  ASNSCRT: The replication service
service_name was not started, because the
service binary file could not be found.

Explanation: The asnsct command cannot start the
specified service, because the corresponding asncap,
asnapply, or asmon command cannot be invoked
using the system path specified by the PATH
environment variable. If the fully qualified path is
provided, the asnsct command cannot find the asncap,
asnapply or asmon command in that path.

User response: Make sure the specified path is correct.
Then re-enter the command.

ASN5214E  ASNSCRT: The replication service
service_name did not start, because an
instance of the service is already
running.

Explanation: The asnsct command cannot start the
specified service, because the service is already
running.

User response: This message is for your information
only, and no action is required.

ASN5215E  ASNSCRT: The replication service
service_name did not start, because the
service depends on a DB2 instance
service that does not exist or has been
marked for deletion.

Explanation: The ASNSCRT command cannot start the
specified service, because the corresponding DB2
instance service does not exist or has been deleted.

User response: Verify that the corresponding DB2
instance service exists in the service control manager.
Then reissue the command.

ASN5216E  ASNSCRT: The replication service
service_name did not start, because this
service depends on another service that
failed to start.

Explanation: The ASNSCRT command cannot start the
specified service, because the corresponding DB2
instance service failed to start.

User response: Verify that the corresponding DB2
instance service started in the service control manager.
Then reissue the command.

ASN5217E  ASNSCRT: The replication service
service_name did not start, because the
service is disabled.

Explanation: The asnsct command cannot start the
specified service, because the service has been disabled
in the service control manager.

User response: Verify that the service startup type is
set to either automatic or manual in the service control manager. Then re-enter the command.

ASN5218E  ASNSCRT: The replication service service_name did not start, because the service cannot log on. This error occurs if the service starts from an account that does not have the proper "Log on as a service" access right.

Explanation: The ASNSCRT command cannot start the specified service, because the corresponding DB2 instance service cannot log on.

User response: Go to service control manager, and locate the specified service. Verify that the provided account name and passwords are correct. Then reissue the command.

ASN5219E  ASNSCRT: The replication service service_name was not created, because the service is marked for deletion.

Explanation: The asnsct command cannot create the specified service, because the service was deleted.

User response: Close the service control manager window. Then re-enter the command.

ASN5220E  ASNSDROP: The service name is a required parameter and must be specified when invoking the asnsdrop command.

Explanation: The asnsdrop command was invoked without a specified service name.

User response: Re-enter the command with a service name.

ASN5221I  ASNSDROP: The service service_name has been successfully removed.

Explanation: The asnsdrop command was invoked with a specified service name.

User response: This message is for your information only, and no action is required.

ASN5222E  ASNSDROP: The replication service service_name cannot be removed, because the requested access is denied.

Explanation: The ASNSDROP command cannot remove the specified service name, because the user does not have the appropriate permission to remove it.

User response: Verify that the current user has permission to log on to the corresponding DB2 instance. Then reissue the command.

ASN5223E  ASNSDROP: The replication service service_name cannot be removed, because the specified service name is not valid.

Explanation: The asnsdrop command cannot remove the specified service name, because the service name contains illegal special characters.

User response: Go to service control manager, and locate the specified service. Verify that the service name is valid, and re-enter the command.

ASN5224E  ASNSDROP: The replication service service_name cannot be removed, because the specified service does not exist.

Explanation: The asnsdrop command cannot remove the specified service name, because the service name does not exist in the service control manager.

User response: Go to service control manager, and locate the specified service. Verify that the service name is correct, and re-enter the command.

ASN5225E  ASNSDROP: The replication service service_name cannot be stopped, because other running services are dependent on it. The service_name is not removed.

Explanation: The asnsdrop command cannot remove the specified service, because other services that are dependent on this specified service are currently running.

User response: Go to service control manager, and stop all services that are dependent on this specified service. Then re-enter the command.

ASN5226E  ASNSDROP: The replication service service_name cannot be removed, because the system is shutting down.

Explanation: The asnsdrop command cannot remove the specified service, because the operating system is shutting down.

User response: Enter the command again after system restarts.

ASN5227I  ASNSDROP: The replication service service_name cannot be removed, because it has already been marked for deletion.

Explanation: The asnsdrop command cannot remove the specified service, because the specified service has already been deleted.

User response: This message is for your information only, and no action is required.
ASN5228E  The command cannot
command_action the replication service
service_name, because the system call
API_func_name returned an unexpected
error code error_code.

Explanation: The asncrt and asndrop commands make system calls in order to work with the services. The specified system call returned an unexpected error code that prevents the given command from completing the requested action.

User response: Enter the command again. This error code might indicate only a temporary system condition. For further information about the error code, check your operating system documentation.

ASN5229E  ASNSCRT: The account is a required
parameter and must be specified when
invoking the asncrt command.

Explanation: The ASNSCRT command was invoked without a specified account name for the corresponding DB2 instance.

User response: Reissue the command with an account name for the corresponding DB2 instance.

ASN5230E  ASNSCRT: The password is a required
parameter and must be specified when
invoking the asncrt command.

Explanation: The ASNSCRT command was invoked without a specified password for the corresponding DB2 instance.

User response: Reissue the command with the password for the corresponding DB2 instance.

ASN5231E  ASNSCRT: The replication service
service_name was not created, because the
account name specified on the account
parameter does not exist.

Explanation: The ASNSCRT command was invoked with an unknown account name for the corresponding DB2 instance.

User response: Verify that the provided account name and passwords are correct. Then reissue the command.

ASN5232E  ASNSCRT: The required parameter path
was not specified.

Explanation: When started as a service, a replication command must contain a path specified by the path keyword that is specific to the command (capture_path for asncap, apply_path for asnapply, and monitor_path for asnmon). If the path keyword is specified, the service is registered if no errors occur.

If the path keyword is not specified, the asncrt command retrieves the DB2 global registry profile variable DB2PATH. If this variable contains a non-null value, the asncrt command adds the appropriate path keyword to the command using the value of DB2PATH. If this variable is not set, the asncrt command cannot register the service.

User response: Enter the command again after you specify the appropriate path keyword or after you define the DB2 global registry profile variable DB2PATH.

ASN5233E  ASNSCRT: The replication service
service_name was not created, because the
specified database instance
database_instance does not exist.

Explanation: The asncrt command cannot create the specified service because the specified database instance does not exist in the system.

User response: Verify that the specified database instance exists in the system. Then reissue the command.

ASN5234E  ASNSCRT: The capture_server
parameter is not specified.

Explanation: The asncrt command was entered without a Q Capture server name. The capture_server parameter is required.

User response: Enter the asncrt command again, with the capture_server parameter set to the Q Capture server name.

ASN5235E  ASNSCRT: The apply_server parameter
is not specified.

Explanation: The asncrt command was entered without a Q Apply server name. The apply_server parameter is required.

User response: Enter the asncrt command again, with the apply_server parameter set to the Q Apply server name.
Chapter 44. ASN6000 - ASN6499

ASN6000W  QCAPLATENCY max-latency EXCEEDS threshold FOR schema

Explanation: The average Q Capture latency during the last monitor interval exceeded the alert threshold. Q Capture latency measures the average time between transactions being committed at the source database and the Q Capture program sending the transaction to be replicated. The threshold was set for the QCAPTURE_LATENCY alert condition in the Replication Alert Monitor program.

User response: To reduce Q Capture latency, use the Performance Advisor in the Q Replication Dashboard or follow the instructions in "Actions to take when Q Replication latency is too high.”

ASN6001W  TRANSIZE max-transize EXCEEDS threshold FOR schema.

Explanation: One or more replicated transactions exceeded the threshold for memory usage during the last monitor interval. The threshold was set for the QCAPTURE_TRANSIZE alert condition in the Replication Alert Monitor program.

User response: If the amount of memory use is not acceptable, you can increase the value of the Q Capture memory_limit parameter.

ASN6002W  QSUBINACT subname FOR schema

Explanation: The Q Capture program deactivated the Q subscription, which resulted in the QCAPTURE_SUBSINACT alert condition in the Replication Alert Monitor.

User response: Look for messages from the Q Capture program in the Q Replication Dashboard, Q Capture log, or IBMQREP_CAPTRACE table that state why the Q subscription was deactivated.

ASN6003W  QCAPMEM max-memsize EXCEEDS threshold FOR schema

Explanation: Total memory usage by the Q Capture program during the last monitor interval exceeded the threshold that was set for the QCAPTURE_MEMORY alert condition in the Replication Alert Monitor.

User response: [Optional] If the amount of memory use that is reported in the max-memsize runtime token in this message is acceptable, increase the value of the Q Capture memory_limit parameter to a value that is larger than the amount that is reported in the max-memsize runtime token.

ASN6004W  QAPPLATENCY max-latency EXCEEDS threshold FOR schema recvq

Explanation: The average Q Apply latency during the last monitor interval exceeded the alert threshold. Q Apply latency measures the time it takes for a transaction to be applied to a target table after the Q Apply program gets the transaction from a receive queue. The threshold was set for the QAPPLY_LATENCY alert condition in the Replication Alert Monitor program.

User response: To reduce Q Apply latency, use the Performance Advisor in the Q Replication Dashboard or follow the instructions in "Actions to take when Q Replication latency is too high.”

ASN6005W  AVGE2ELATENCY max-latency EXCEEDS threshold FOR schema recvq

Explanation: The average end-to-end latency during the last monitor interval exceeded the alert threshold. End-to-end latency measures the total time that replication requires to capture changes and apply those changes to a target database. The threshold was set for the QAPPLY_EELATENCY alert condition in the Replication Alert Monitor program.

User response: To reduce Q Apply latency, use the Performance Advisor in the Q Replication Dashboard or follow the instructions in "Actions to take when Q Replication latency is too high.”

ASN6006W  QAPPMEM max-mem EXCEEDS threshold FOR schema recvq

Explanation: The peak memory usage by the Q Apply program for processing transactions from this receive queue during the last monitor interval exceeded an alert threshold. The threshold was set for the QAPPLY_MEMORY alert condition in the Replication Alert Monitor program.

User response: To allocate more memory for processing transactions from this receive queue, increase the value of the memory_limit parameter for the replication queue map that includes the receive queue.

ASN6007W  QAPPEXCPT SQLCODE sqlcode SQLSTATE sqlstate FOR schema recvq

Explanation: The Q Apply program inserted a row in the IBMQREP_EXCEPTIONS table because of a conflict or SQL error at a target. The Replication Alert Monitor reported the insertion because the QAPPLY_EXCEPTIONS alert condition is enabled.
User response: Use the SQLCODE and SQLSTATE values to determine the cause of the exception. You can use the Q Replication Dashboard to get more detail about the exception, or look at the IBMQREP_EXCEPTIONS table.

ASN6008W  RECVQINACT FOR schema recvq
Explanation: The Q Apply program stopped processing messages on the specified receive queue. This action is also known as deactivating or stopping the receive queue. The Replication Alert Monitor reported the action because the QAPPLY_RECVQINACT alert condition is enabled.
User response: Look for messages from the Q Apply program that explain why it stopped processing messages on the receive queue.

ASN6009W  QDEPTH max-qdepth EXCEEDS threshold FOR schema qname
Explanation: The fullness of the specified receive queue or spill queue exceeded an alert threshold. The Replication Alert Monitor reported the action because one or both of the alert conditions QAPPLY_QDEPTH or QAPPLY_SPILLQDEPTH are enabled.
User response: Take one of the following actions to reduce the fullness of the receive queue or spill queue:

Receive queue
Follow the instructions in "Checking for and preventing a full receive queue."

Spill queue
If possible, stop the Q Capture program. If necessary, increase the value for the MAXDEPTH attribute of the spill queue.

ASN6010W  PGMDOWN pgmtype FOR schema
Explanation: The program stopped. The Replication Alert Monitor reported the action because one or both of the alert conditions QCAPTURE_STATUS or QAPPLY_STATUS are enabled.
User response: If the stoppage was unexpected, look for messages from the program to indicate why it stopped.

ASN6011W  AVG END-TO-END LATENCY LATENCY_VALUE IS ABOVE THRESHOLD FOR schema NAME RECVQ_NAME IN WORKLOAD_NAME.
Explanation: An average end-to-end latency event was defined in the IBMQREP_APPEVTDEFS table. The average latency had exceeded the maximum threshold but now is back within the required specification.
User response: Check the Q Apply server to determine why the maximum threshold was exceeded. Further actions might be needed to reduce latency.

ASN6012I  AVG END-TO-END LATENCY LATENCY_VALUE IS BELOW THRESHOLD FOR schema NAME RECVQ_NAME IN WORKLOAD_NAME.
Explanation: An average end-to-end latency event was defined in the IBMQREP_APPEVTDEFS table. The average latency had exceeded the maximum threshold but now is back within the required specification.
User response: This message is for your information only. No action is required.

ASN6013W  PIT CONSISTENCY LATENCY LATENCY_VALUE IS ABOVE THRESHOLD FOR schema NAME RECVQ_NAME IN WORKLOAD_NAME.
Explanation: A latency event for point-in-time (PIT) consistency was defined in the IBMQREP_APPEVTDEFS table. The value of PIT-consistency latency exceeds the maximum threshold.
User response: Check the Q Apply server to determine why the maximum threshold was exceeded. Further actions might be needed to reduce the latency.

ASN6014W  PIT CONSISTENCY LATENCY LATENCY_VALUE IS BELOW THRESHOLD FOR schema NAME RECVQ_NAME IN WORKLOAD_NAME.
Explanation: A latency event for point-in-time (PIT) consistency was defined in the IBMQREP_APPEVTDEFS table. The value of PIT-consistency had exceeded the maximum threshold and is now is back within the required specification.
User response: This message is for your information only. No action is required.
Chapter 45. ASN7000 - ASN7499

ASN7000I  program_name : program_identifier : number subscriptions are active. number subscriptions are inactive. number subscriptions that were new and were successfully activated. number subscriptions that were new could not be activated and are now inactive.

Explanation: This message describes the number of publications or Q subscriptions that are in various states.
User response: This message is for your information only. No action is required.

ASN7001I  program_name : program_identifier : The command_name command was received.

Explanation: The command that was received might be processed asynchronously. The program will issue a message when the command is processed and store that message in the trace table (IBMQREP_CAPTRACE).
User response: This message is for your information only. No action is required.

ASN7002E  program_name : program_identifier : The send queue queue_name is full. This error occurred while processing publication or Q subscription name (publishing or replication queue map queue_map_name).

Explanation: The number of messages reached the number that is set for the MAXDEPTH attribute on the send queue. The ERROR_ACTION value determines how the program behaves due to this error. The value for the Q Capture program is stored in the IBMQREP_SENDQUEUES table.
User response: Do not clear the queue or all of the messages containing your changes will be removed.
Make sure that Q Apply or a subscribing application is running.
If necessary, increase the value for the MAXDEPTH attribute of the send queue. After you increase the value, take all of the appropriate actions that are necessary:
• If the Q Capture program terminated because of this error, warm start the Q Capture program.
• If the publications or Q subscriptions were deactivated, activate them.

ASN7004E  program_name : program_identifier : The source column source_column subscribed in publication or Q subscription name does not exist in the source table table_name.

Explanation: The column shown in the IBMQREP_SRC_COLS table does not exist in the source table. This error occurred due to one of the following problems:
• The column name was specified incorrectly in the publication or Q subscription.
• The source table changed since the publication or Q subscription was created.
• Extra columns were specified in the publication or Q subscription.

Therefore, the publication or Q subscription cannot be activated.
User response: Ensure that the column name is specified correctly in the publication or Q subscription.
If the publication or Q subscription is not correct (for example, because it contains more columns than are available at the source table), use the replication administration tools to perform the following steps:
1. Delete and recreate the publication or Q subscription.
2. Activate the publication or Q subscription.

ASN7006E  program_name : program_identifier : The publication or Q subscription name was deactivated due to an error.

Explanation: The specified publication or Q subscription was deactivated due to an error that was specified in a previous message.
User response: Look in the Q Capture diagnostic log or in the IBMQREP_CAPTRACE table to find the error message that precedes this one. Take the appropriate action to correct the problem (follow the instructions in the user response of the previous message). Activate the publication or Q subscription.

ASN7007E  program_name : program_identifier : The Q Capture program cannot warm start because it detected database partitions for which it does not have restart information. Those database partitions are node_id,...,node_id.

Explanation: This error message occurred due to one of the following reasons:
• One or more new database partitions were added to the database. The Q Capture program could not process the log records for the new partitions because it tried to warm start with the add_partition parameter set to 'N'. This parameter determines whether the Q Capture program starts reading the log file for the partitions that were added since the last time the Q Capture program was started. By default, this parameter is set to 'N'. The add_partition parameter must be set to 'Y' before the Q Capture program can read the log files.

User response: If new database partitions were added, warm start the Q Capture program using the add_partition='Y' option.

If the restart message in the restart queue was corrupted, cold start the Q Capture program.

ASN7008I  program_name : program_identifier : The program was successfully reinitialized. number subscriptions are active. number subscriptions are inactive. number subscriptions that were new were successfully activated. number subscriptions that were new could not be activated and are now inactive.

Explanation: The REINIT command was processed successfully. As a result, the Q Capture program recognizes any changed attributes for publications, Q subscriptions, and queue maps. Any new publications or Q subscriptions were automatically activated. Refer to the message text for the number of publications or Q subscriptions that are in various states.

User response: This message is for your information only. No action is required.

ASN7010I  program_name : program_identifier : The program successfully activated publication or Q subscription name (send queue queue_name, publishing or replication queue map queue_map_name) for source table table_name.

Explanation: The Q Capture program is replicating changes for the active publication or Q subscription.

When the Q Capture program starts, it activates any new publications or Q subscriptions. While the Q Capture program runs, it performs the following actions:
• Activates any new publications or Q subscriptions when it reinitializes.
• Activates any new or inactive publications or Q subscriptions when it receives a capstart signal.

User response: This message is for your information only. No action is required.

ASN7011E  program_name : program_identifier : Source table table_name of publication or Q subscription name (send queue queue_name, publishing or replication queue map queue_map_name) was not found.

Explanation: The source table specified in the publication or Q subscription does not exist. Most likely the wrong table name was specified when attempting to activate the publication or Q subscription. Otherwise, the source table might have been dropped intentionally since the publication or Q subscription was created.

User response: Take one of the following actions:
• Ensure that the source table is specified correctly in the control tables and that it exists in the database. Activate the publication or Q subscription again.
• If you dropped the source table intentionally, delete the publication or the Q subscription.

ASN7012I  program_name : program_identifier : The publication or Q subscription name was successfully reinitialized.

Explanation: The Q Capture program successfully reinitialized the publication and it will process transactions according to the new attributes.

User response: This message is for your information only. No action is required.

ASN7013I  program_name : program_identifier : The publication or Q subscription name was deactivated.

Explanation: The publication or Q subscription was deactivated because the CAPSTOP signal was received.

User response: This message is for your information only. No action is required.

ASN7015E  program_name : program_identifier : This is additional information for message ASN0575E. The program detected an unrecoverable WebSphere MQ error for send queue send_queue_name of publishing or replication queue map queue_map_name. The error action specified for the queue map is error_action.

Explanation: An unrecoverable WebSphere MQ error occurred on this send queue. The Q Capture program stops. The error action I to deactivate the publications or Q subscriptions on the send queue has been deprecated.

User response: Look in the Q Capture diagnostic log file or the IBMQREP_CAPTRACE table to find the error message that precedes this one, typically ASN0575E.
Take the appropriate action to correct the WebSphere MQ problem (follow the instructions in the user response of the previous message). After you fix the error, start the Q Capture program in warm mode.

**ASN7016E**  
_program_name_ : _program_identifier_ : The LOADDONE signal failed because the publication or Q subscription _name_ has no load phase.

**Explanation:** The publication or Q subscription does not have a load phase (HAS_LOADPHASE=N). This error could be caused by an incorrect publication or Q subscription name specified in the LOADDONE signal or in the load done received message.

**User response:**
- If the publication or Q subscription has a load phase and you inserted the LOADDONE signal  
  Make sure that the publication name or Q subscription name in the signal is correct and re-insert the LOADDONE signal.
- If the publication or Q subscription has a load phase and you sent the load done received message  
  Make sure that the publication name or Q subscription name in the message is correct and resend the load done received message.

**ASN7017I**  
_program_name_ : _program_identifier_ : The target table _table_name_ is ready to be loaded from source table _table_name_ for publication or Q subscription _name_.

**Explanation:** See message text.

**User response:** This message is for your information only. No action is required.

**ASN7018E**  
_program_name_ : _program_identifier_ : The source table _table_name_ for publication or Q subscription _name_ does not have the DATA CAPTURE CHANGES attribute set.

**Explanation:** The source table is incorrectly defined. No data will be captured for this publication or Q subscription.

**User response:** Alter the source table so that the DATA CAPTURE CHANGES attribute is set and restart the publication or Q subscription. For example:

```
alter table src_owner.src_table  
data capture changes
```

**ASN7019I**  
_program_name_ : _program_identifier_ : signal _signal_ signal was received and will be processed.

**Explanation:** See message text.

**User response:** This message is for your information only. No action is required.

**ASN7020I**  
_program_name_ : _program_identifier_ : The program reached the end of the active log and terminated because the AUTOSTOP option is specified.

**Explanation:** See message text.

**User response:** This message is for your information only. No action is required.

**ASN7021E**  
_program_name_ : _program_identifier_ : The publication _name_ did not start because an internal load phase is specified.

**Explanation:** For publications, only two load options are supported. The HAS_LOADPHASE value in the IBMQREP_SUBS table must be set to one of the following values:

- N  The target will not be loaded.
- E  An application other than the Q Apply program loads the target table.

An internal load option (HAS_LOADPHASE=I) is not supported for publications.

**User response:** Specify a supported load option for the publication (ensure that the correct HAS_LOADPHASE value is in the IBMQREP_SUBS table) and start the publication.

**ASN7022W**  
_program_name_ : _program_identifier_ : The publication or Q subscription _name_ does not exist in the IBMQREP_SUBS control table. The signal _signal_ signal was ignored.

**Explanation:** The program cannot find this publication or Q subscription in the IBMQREP_SUBS control table.

**User response:** Ensure that the publication or Q subscription name is accurate for the signal.

**ASN7023W**  
_program_name_ : _program_identifier_ : Source table _table_name_ does not have a primary key, unique constraint, or unique index.

**Explanation:** Since the source table does not have a primary key, unique constraint, or unique index, all columns except LOB columns were selected as the replication key. This might impact performance because of the amount of data sent. The related publications or Q subscriptions are still activated.

**User response:** Create a primary key, a unique constraint, or a unique index on the source table and reinitialize all related publications or Q subscriptions if necessary.
ASN7024E  program_name: program_identifier: The program cannot process the restart message from the restart queue restart_queue.

Explanation: The program detected an internal inconsistency. This could happen if you are falling back from a higher-level PTF or version of Q Capture to a previous PTF level or previous version. Q Capture saves its restart information using a new format. Q Capture can warm start by using restart information from a prior level of Q Capture, but prior levels of Q Capture will not be able to use the new restart information format to warm restart.

User response: Check that the correct version of the Q Capture program is running and that the restart queue was not improperly altered. If you need to warm restart a prior level of Q Capture, you must start Q Capture from a known point in the log by specifying the LSN and MAXCMTSEQ parameters. Look for message ASN7109I in the Q Capture diagnostic log. The value of LSN is described as "the lowest log sequence number of a transaction still to be committed." The value of MAXCMTSEQ is described as "the highest log sequence number of a successfully processed transaction."

ASN7025E  program_name: program_identifier: The program cannot access the restart queue restart_queue.

Explanation: See message text.

User response: Make sure the restart queue is correctly specified and accessible to application programs (GET enabled).

ASN7026E  program_name: program_identifier: Invalid signal type signal_type and subtype subtype.

Explanation: The signal type or signal subtype is not supported.

User response: Check the SIGNAL_TYPE and SIGNAL_SUBTYPE of the row inserted in the IBMQREP_SIGNAL control table. Ensure that the signal type or signal subtype is correct and try inserting the signal again.

ASN7027E  program_name: program_identifier: The restart queue restart_queue is empty.

Explanation: The Q Capture program could not warm start. See message text.

User response: Cold start the Q Capture program.

ASN7028E  program_name: program_identifier: The MAX_MESSAGE_SIZE specified for send queue queue_name for publishing or replication queue map queue_map_name in the IBMQREP_SENDQUEUES table is larger than the MAXMSGL queue attribute value of number bytes defined in WebSphere MQ.

Explanation: The MAX_MESSAGE_SIZE column value of this send queue is not valid because it exceeds the MAXMSGL attribute of the WebSphere MQ queue manager. The send queue is invalidated.

User response: Decrease the MAX_MESSAGE_SIZE column value for this send queue. If necessary, increase the MAXMSGL attribute:
- For remote send queues, increase the MAXMSGL attribute of the transmission queue.
- For local send queues, increase the MAXMSGL attribute.

Restart any publication or Q subscription on the send queue.

If the send queue is remote, the MAX_MESSAGE_SIZE value must be at least 4 KB smaller than the MAXMSGL attribute of both the transmission queue and the queue manager. This 4 KB difference accounts for the extra information that is carried in the message header while the message is on the transmission queue.

ASN7029E  program_name: program_identifier: The restart message exceeded the maximum message size of the restart queue restart_queue.

Explanation: See message text.

User response: Increase the maximum message size of the restart queue and warm start the Q Capture program.

ASN7030E  program_name: program_identifier: The restart queue queue_name is full. The Q Capture program will terminate.

Explanation: The number of messages reached the number that is set for the MAXDEPTH attribute on the restart queue.

User response: If necessary, increase the value for the MAXDEPTH attribute of the restart queue. After you increase the value, cold start the Q Capture program.

ASN7033E  program_name: program_identifier: An invalid search condition was detected for publication or Q subscription name. Column name: column_name. Reason code: reason_code.
The following values are valid for the reason code:

0

An ordinary identifier for a column name must start with a letter followed by letters, numbers, or underscores.

1

The column name is not followed by a double quotation mark.

4

The search condition is missing the keyword WHERE.

5

The search condition contains a column that is not in the source table.

6

The search condition does not contain any source table column names.

7

The combined search condition and change condition does not contain any source table column names or log record variables.

User response: Ensure that the search condition or change condition is in the proper format and restart the publication or Q subscription.

ASN7034W

program_name : program_identifier : The program cannot process a message from the administration queue queue_name.

Explanation: The program detected an internal inconsistency.

User response: Contact IBM Software Support. Provide the exact message that you received, which identifies the Q Capture schema. Provide the diagnostic log file. Also, provide a trace dump (ASNTRC DMP) file, if available.

ASN7037E

program_name : program_identifier : Initialization of the XML parser failed. The expected XML parser version is version_number. This error message was received: error_message.

Explanation: An internal inconsistency was detected.

User response: Contact IBM Software Support. Provide the diagnostic log file. Also, provide a trace dump (ASNTRC DMP) file, if available.

ASN7038E

program_name : program_identifier : The XML control message does not satisfy the validity constraints of the XML schema for control messages as specified in the msub.xsd file. The message will be deleted from the queue and ignored. XML control message: xml_message.

Explanation: See message text.

User response: Correct the XML control message so that it satisfies the validity constraints of the XML schema for control messages as specified in the msub.xsd file, and put it on the administration queue again.

ASN7039W

program_name : program_identifier : An error occurred while parsing an XML control message. The message was ignored and the program continues to run. Error message: error_message. XML control message: xml_message.

Explanation: The XML control message is not valid and was ignored. The Q Capture program continues to run.

User response: Fix the XML control message and resend it.

ASN7040E

program_name : program_identifier : A DOM error occurred while parsing an XML control message. DOM exception code: exception_code. XML control message: xml_message.
Explanation: The XML control message is ignored and the Q Capture program continues to run.

User response: Contact IBM Software Support. Provide the diagnostic log file. Also, provide a trace dump (ASNTRC DMP) file, if available.

ASN7043W  program_name : program_identifier : A message_type message was received in the administration queue for the nonexistent or inactive publication or Q subscription name. The control message was ignored.

Explanation: The request that was received on the administration queue could not be performed because the publication or Q subscription does not exist or is inactive.

User response: Ensure that the name of the publication or Q subscription is correct and that it is in the active state. Put the control message on the administration queue again.

ASN7045E  program_name : program_identifier : The send queue queue_name of publishing or replication queue map queue_map_name is not active. The REINITQ command was ignored.

Explanation: The REINITQ command must be issued for an active send queue.

User response: Check that the queue name is correct and reissue the REINITQ command or reinitialize the queue from the Replication Center.

ASN7046I  program_name : program_identifier : Send queue queue_name of publishing or replication queue map queue_map_name was successfully reinitialized. The following attributes were refreshed: ERROR_ACTION is error_action, HEARTBEAT_INTERVAL is heartbeat_interval, MAX_MESSAGE_SIZE is max_message_size.

Explanation: See message text.

User response: This message is for your information only. No action is required.

ASN7051W  program_name : program_identifier : The publication or Q subscription name was deactivated because no key column is specified in the IBMQREP_SRC_COLS table.

Explanation: At least one column in the source and target tables must be specified as a key column for the publication or Q subscription. The name of this column is specified in the IBMQREP_SRC_COLS table.

User response: Ensure that at least one column in the source and target tables is specified as a key column for the publication or Q subscription, then activate the publication or Q subscription.

ASN7052E  program_name : program_identifier : The source table table_name for publication or Q subscription name contains LONG VARCHAR or LONGVARGRAPHIC columns but it does not have the DATA CAPTURE CHANGES attribute set to INCLUDE LONGVAR COLUMNS.

Explanation: The source table is incorrectly defined. No data will be captured for this publication or Q subscription.

User response: Alter the source table so that the DATA CAPTURE CHANGES attribute is set to INCLUDE LONGVAR COLUMNS and restart the publication or Q subscription. For example:
alter table owner.table data capture changes include longvar columns

ASN7057I  program_name : program_identifier : The SUB_ID of publication or Q subscription name in the control table IBMQREP_SUBS is not unique. A new SUB_ID is generated.

Explanation: A duplicate SUB_ID was found in the control table IBMQREP_SUBS for publication or Q subscription name. The value in this column must be unique.

User response: This message is for your information only. No action is required.

ASN7059E  program_name : program_identifier : Q subscription name was not activated because the GROUP_MEMBERS column in the IBMQREP_SUBS table is not null.

Explanation: The GROUP_MEMBERS column in the IBMQREP_SUBS table must be null for an inactive Q subscription in multidirectional replication.

User response: Redefine the Q subscription using one of the replication administration tools, and then activate the Q subscription.

ASN7060E  program_name : program_identifier : The Q subscription name was not activated. The Q subscription corresponding to the Q subscription name for multidirectional replication either is in an invalid state or it does not exist in the same Q subscription group in the IBMQREP_TARGETS table.

Explanation: To activate a Q subscription for
multidirectional replication, all the corresponding Q subscriptions in the same Q subscription group in the IBMQREP_Targets table must be in the active or inactive state. This error might occur if any Q subscriptions in the same Q subscription group are in the process of being initialized or deactivated.

**User response:** Redefine the Q subscription using one of the replication administration tools, and then activate the Q subscription.

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**ASN7061E**

`program_name : program_identifier : Q subscription name was not activated because another Q subscription name that shares the same Q subscription group and table table_name in the IBMQREP_SUBS table has a different SOURCE_NODE source_node.`

**Explanation:** In multidirectional replication, all Q subscriptions that share the same Q subscription group and table must have the same SOURCE_NODE in the IBMQREP_SUBS table.

**User response:** Redefine the Q subscription using one of the replication administration tools, and then activate the Q subscription.

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**ASN7062E**

`program_name : program_identifier : Q subscription name was not activated because another Q subscription name is in an invalid state state.`

**Explanation:** To activate a Q subscription for peer-to-peer replication, all the other Q subscriptions in the same Q subscription group must be in the active or inactive state in the IBMQREP_SUBS table. This error might occur if any Q subscriptions in the same Q subscription group are in the process of being initialized or deactivated.

**User response:** Redefine the Q subscription using one of the replication administration tools, and then activate the Q subscription.

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**ASN7063E**

`program_name : program_identifier : Q subscription name was not activated because another Q subscription name, which shares the same Q subscription group, is in the process of being activated.`

**Explanation:** In peer-to-peer replication, multiple Q subscriptions in a Q subscription group cannot start at the same time.

**User response:** Check the IBMQREP_SUBS table to ensure that the other Q subscription is in the active (A) state. Then activate the Q subscription that was placed in the inactive state.
Row operation messages cannot be sent in compact message format on send queue queue_name of queue map queue_map_name. Transaction messages are sent instead.

Explanation: Both row operations and transaction messages are valid in XML message format, but only transaction messages are valid in compact format.

User response: If you want to publish row operations, the MESSAGE_FORMAT in the IBMQREP_SENDQUEUES control table must be set to 'X'.

A WebSphere MQ exception report message was received in the administration queue with the WebSphere MQ reason code reason_code.

Explanation: This error is issued when an MQ exception report message is generated by the receiving MCA (message channel agent) in response to a message delivery problem to the target WebSphere MQ queue manager.

User response: See the reason code documentation in the WebSphere MQ application programming reference for an explanation of the reason code and for information about actions that you might need to take for the target WebSphere MQ queue manager.

The send queue for publication or Q subscription name that was specified in a WebSphere MQ exception report message no longer exists in the IBMQREP_SUBS control table.

Explanation: See message text.

User response: This message is for your information only. No action is required.

The publication or Q subscription name was not activated because one or more columns of LOB data type were specified as key columns for the publication or Q subscription.

Explanation: Columns of LOB data type must not be specified as key columns for a publication or Q subscription.

User response: Make sure that all columns in the publication or Q subscription that are specified as key columns are of a data type other than LOB. Activate your publication or Q subscription.

For Q subscription name, the program cannot find information in the IBMQREP_SUBS table for the SUBGROUP, SOURCE_NODE, or
TARGET_NODE columns.

Explanation: Q subscriptions in multidirectional replication must have a Q subscription group, a source node, and a target node.

User response: Redefine the Q subscription using one of the replication administration tools, and then activate the Q subscription.

ASN7089E  program_name : program_identifier : The publication or Q subscription name was not activated because it contains LOB columns and no primary key, unique constraint, or unique index exists on source table table_name.

Explanation: The source table for a publication or Q subscription that contains LOB columns must have one or more key columns. All columns that are specified as key columns must be of a data type other than LOB data type

User response: Use the replication administration tools to do the following steps:
1. Ensure that the source table has a primary key, unique constraint, or unique index. Or, remove the LOB data type columns from the publication or Q subscription.
2. Activate the publication or Q subscription.

ASN7090E  program_name : program_identifier : A Q subscription in peer-to-peer replication cannot contain a search condition.

Explanation: If this Q subscription is for unidirectional or bidirectional replication, change the subscription type to 'U' or 'B' respectively. If this Q subscription is for peer-to-peer replication, remove the search condition. In any case, redefine the Q subscription using one of the replication administration tools and activate the Q subscription.

User response: Make sure that the publication or Q subscription is expecting this signal. For example, a CAPSTART signal should only be targeted at an inactive Q subscription. Re-insert the signal if needed.

ASN7091W  program_name : program_identifier : The program cannot find the corresponding Q subscription in the IBMQREP_SUBS table for Q subscription name.

Explanation: See message text.

User response: Redefine the Q subscription using one of the replication administration tools.

ASN7093E  program_name : program_identifier : Q subscription name_or_subid was not activated because it is not the only Q subscription in Q subscription group subgroup for bidirectional replication in the IBMQREP_SUBS table.

Explanation: Only one Q subscription is allowed in a Q subscription group for bidirectional replication.

User response: Redefine the Q subscription using one of the replication administration tools, and then activate the Q subscription.

ASN7094E  program_name : program_identifier : The signal_name signal failed because the publication or Q subscription name has an invalid subtype subtype or an invalid state state.

Explanation: The program received an unexpected or invalid signal in regards to a subtype or state of a particular publication or Q subscription.

User response: Make sure that the publication or Q subscription is expecting this signal. For example, a CAPSTART signal should only be targeted at an inactive Q subscription. Re-insert the signal if needed.

ASN7095E  program_name : program_identifier : The column SUB_ID in the IBMQREP_SUBS control table is null for the publication or Q subscription name that is either in active or loading state.

Explanation: The SUB_ID in the table IBMQREP_SUBS cannot be null for a previously active publication or Q subscription.

User response: Use the ASNCLP command-line program or Replication Center to stop and then start the publication or Q subscription.

ASN7096E  program_name : program_identifier : The publication or Q subscription name contains a semicolon.

Explanation: The publication or Q subscription name in the IBMQREP_SUBS control table may not contain a semicolon.

User response: Make sure that the publication or Q subscription name does not contain a semicolon and then start the publication or Q subscription.

ASN7097E  program_name : program_identifier : The Q subscription name did not start because there is a Q subscription for the same table in another Q subscription group for bidirectional or peer-to-peer replication.

Explanation: See message text.

User response: Restart the Q subscription after ensuring that there are no other Q subscriptions for the same table in another Q subscription group.
ASN7098W  program_name : program_identifier : The ADDCOL signal failed because column column_name is already part of the publication or Q subscription name that was specified in the signal insert.

Explanation: The source table column that was specified in the ADDCOL signal insert is already part of the Q subscription or publication definition.

User response: Ensure that the column is correctly specified and then insert the ADDCOL signal again if necessary.

ASN7100I  program_name : program_identifier : Column column_name has been added to the publication or Q subscription name.

Explanation: Changes to the column are now being captured based on the Q subscription or publication definition. For Q subscriptions, the new column will be added to the target table if the column does not already exist in the target table.

User response: This message is for your information. No action is required.

ASN7101E  program_name : program_identifier : The column column_name that was specified in the ADDCOL signal for publication or Q subscription name cannot be added because is not nullable and does not have a default value.

Explanation: Columns that are being added to Q subscriptions or publications with the ADDCOL signal must be nullable or defined as NOT NULL WITH DEFAULT.

User response: Ensure that the column that is being added is correctly defined, and then insert the ADDCOL signal again.

ASN7102E  program_name : program_identifier : The Q Capture program detected restart information that does not pertain to that program. The restart information came from the restart queue queue_name and it pertains to Q Capture server name and to Q Capture schema schema.

Explanation: The Q Capture program is unable to warm start because the restart information in the restart queue is invalid.

User response: Ensure that you specified the restart queue correctly, or empty the restart queue and cold start the Q Capture program.

ASN7103W  program_name : program_identifier : The Q Capture program cannot find partitions that were previously known to DB2. Those database partitions are partition_name.

Explanation: The Q Capture program is validating the database partition information that is stored in the restart information. The program found that some database partitions that it knew about from a prior invocation have been removed. The Q Capture program will update its database partition information and continue normally.

User response: Validate that the listed database partitions where actually removed. If so, no further action is required. If the database partitions have not been removed, stop the Q Capture program because it will not capture transactions on the missing database partitions. Start the Q Capture program with a start mode of cold.

ASN7104E  program_name : program_identifier : The publication name was not activated because it contains a topic topic that differs from active publications on send queue queue_name of publishing queue map queue_map_name.

Explanation: All of the publications that use the same send queue must have the same topic. The publication was not activated because it did not have the same topic.

User response: Ensure that all of the publications that use the same send queue have the same topic.

ASN7105I  program_name : program_identifier : Restart information exists for send queue queue_name, However, this send queue of replication queue map queue_map_name does not exist in the IBMQREP_SENDQUEUES table.

Explanation: The send queue was deleted from the IBMQREP_SENDQUEUES since the last run.

User response: This message is for your information. No action required.

ASN7106I  program_name : program_identifier : During warmstart, the Q subscription name is in a state other than inactive, but the restart information for the corresponding send queue queue_name of queue map queue_map_name is not found.

Explanation: The restart information for the send queue is not present in the restart message. The restart message might be corrupted. The Q Capture program will fix its restart information.
User response: message is for your information. No action required.

ASN7107E program_name : program_identifier : The number of ADDCOL signals that were inserted within this WebSphere MQ commit interval has exceeded the maximum of 20.

Explanation: The Q Capture program can process a maximum of 20 ADDCOL signals within one WebSphere MQ commit interval. This interval specifies how often a Q Capture program commits messages to WebSphere MQ and is set by using the Q Capture program’s commit_interval parameter.

User response: Insert the ADDCOL signals that failed so that the Q Capture program can commit them within a new interval.

ASN7108I program_name : program_identifier : At program initialization, the lowest log sequence number of a transaction still to be committed (LSN) is restart_lsn and the highest log sequence number of a successfully processed transaction (MAXCMTSEQ) is maxcmtseq.

Explanation: The Q Capture program starts and records the values of the restart message. Q Capture will start reading the log from the restart log sequence number (the lowest LSN of a transaction still to be committed) and will ignore any transactions whose commit is before the maximum commit sequence number (the highest LSN of a successful transaction). In a partitioned database, these log indicators come from the partition where the Q Capture program is running.

You can use the LSN and MAXCMTSEQ values to start Q Capture from a known point in the recovery log.

User response: This message is for your information only. No action is required.

ASN7109I program_name : program_identifier : At program termination, the lowest log sequence number of a transaction still to be committed (LSN) is restart_lsn and the highest log sequence number of a successfully processed transaction (MAXCMTSEQ) is maxcmtseq.

Explanation: The Q Capture program terminates and records the values of the restart message. During the next run, Q Capture will start reading the log from the restart log sequence number (the lowest LSN of a transaction still to be committed) and will ignore any transactions whose commit is before the maximum commit sequence number (the highest LSN of a successful transaction). In a partitioned database, these log indicators come from the partition where the Q Capture program is running.

You can use the LSN and MAXCMTSEQ values to start Q Capture from a known point in the recovery log.

User response: This message is for your information only. No action is required.

ASN7110E program_name : program_identifier : The LSN parameter must be specified with the MAXCMTSEQ parameter.

Explanation: If you want to start the Q Capture program from a specific point in the recovery log, you must specify both the LSN parameter and the MAXCMTSEQ parameter. The LSN parameter specifies the lowest LSN of a transaction still to be committed. The MAXCMTSEQ parameter specifies the highest log sequence number of a successful transaction.

User response: Restart the Q Capture program and specify both the LSN parameter and the MAXCMTSEQ parameter.

ASN7111E program_name : program_identifier : The LSN parameter and the MAXCMTSEQ parameter cannot be specified in cold start mode.

Explanation: The Q Capture program was stopped because the LSN parameter and the MAXCMTSEQ parameter must be specified in warm start mode.

User response: Restart the Q Capture program in warm start mode with the LSN parameter and the MAXCMTSEQ parameter.
ASN7120I  Last committed transaction published (LSN)

ASN7121I  Current application memory

ASN7122I  Q Capture program status

ASN7123I  Up

ASN7124I  Down

ASN7125I  Path to DB2 log files

ASN7126I  Oldest DB2 log file needed for Q Capture restart

ASN7127I  Current DB2 log file captured

ASN7128I  program_name:program_identifier: The db2flsn utility could not find the log file that contains LSN lsn. The return code is return_code. The reason is reason. The Q Capture program continues with normal processing.

Explanation: Q Capture executes the db2flsn (find log sequence number) command when Q Capture starts to display the name of the log file that includes the oldest DB2 log sequence number that is needed for a restart. This number is shown in the ASN7155I message. Q Capture executes db2flsn when Q Capture stops to display the name of the log file that includes the last DB2 log sequence number that was captured. This number is shown in the ASN7156I message. Q Capture also executes db2flsn when it receives the status show details command to display the oldest DB2 log file that is needed for a restart and the current DB2 log file that was captured. If the user ID that runs the Q Capture program does not have read privilege for the SQLOGCTL.LFH.1 and SQLOGCTL.LFH.2 log control files in the database home directory for the Q Capture server, the db2flsn program generates return code -101.

User response: If the utility return code is -101, give the user ID that runs the Q Capture program read privilege on the SQLOGCTL.LFH log control files.

ASN7129I  program_name:program_identifier: The program could not open a pipe to execute the db2flsn utility. The return code is return_code. The reason is reason.

Explanation: The Q Capture program was unable to open a pipe to execute the db2flsn utility.

User response: This message is for your information. No action is required.

ASN7130E  program_name:program_identifier: The Q Capture program is unable to decode log records for the source table table_owner.table_name. The program stopped.

Explanation: The Q Capture program encountered a different version of the table because the table was altered. The Q Capture program was not able to determine the correct version by reading from the IBMQREP_COLVERSION and IBMQREP_TABVERSION tables. The tables might have been dropped.

User response: Ensure that the IBMQREP_COLVERSION and IBMQREP_TABVERSION tables have not been dropped. If they are missing, restore these tables and restart the Q Capture program.

ASN7131I  program_name:program_identifier: The Q Capture program will switch to cold start mode because warm start information was not found.

Explanation: The Q Capture program switched to cold start because restart information is missing and WARMSI start mode was specified.

User response: This message is for your information. No action is required.

ASN7132E  program_name:program_identifier: Warm start information was not found and there are active Q subscriptions. The Q Capture program will terminate.

Explanation: The Q Capture program stopped because information that is needed to restart is missing and Q subscriptions are active.

User response: Restart the Q Capture program in cold start mode if needed. You can also use the asnqcap command with the lsn and maxcmtseq parameters to specify a restart point.

ASN7133I  program_name:program_identifier: The publication or Q subscription name was stopped.

Explanation: The publication or Q subscription was stopped because of a signal or an error.

User response: If the deactivation was due to an error, look in the Q Capture diagnostic log file or IBMQREP_CAPTRACE table for messages that might indicate the problem. Fix the error and start the publication or Q subscription.
ASN7134E  program_name  program_identifier : The publication or Q subscription name failed to activate during the initialization of the Q Capture program because of an error.

Explanation: The publication or Q subscription was not started because of an error.

User response: Look in the Q Capture diagnostic log file or IBMQREP_CAPTRACE table for messages that might indicate the problem. Fix the error and start the publication or Q subscription.

ASN7135E  program_name  program_identifier : The publication or Q subscription name was not activated because one or more columns of LONG data type were specified as key columns for the publication or Q subscription.

Explanation: Columns of LONG type are not valid for the key that is used for publishing or replication (IS_KEY > 0 in the IBMQREP_SRC_COLS or IBMQREP_TRG_COLS control tables).

User response: Use the Replication administration tools to redefine the columns that are used as a replication or publishing key, and then start the publication or Q subscription.

ASN7136E  program_name  program_identifier : The max_message_size value that is specified for remote send queue queue_name for publishing or replication queue map queue_map_name in the IBMQREP_SENDQUEUES table must be at least 4000 bytes less than the MAXMSGL attribute value of number bytes that is defined for the transmission queue queue_name in WebSphere MQ.

Explanation: The max_message_size value of the queue map that uses this send queue is too large. If the send queue is remote, the max_message_size value must be at least 4 KB smaller than the MAXMSGL attribute of both the transmission queue and the queue manager. This 4 KB difference, which is specified by MQ_MSG_HEADER_LENGTH, accounts for the extra information that is carried in the message header while the message is on the transmission queue.

User response: Use the ASNCCLP or Replication Center to reduce the MAX_MESSAGE_SIZE value for the queue map. If necessary, increase the MAXMSGL attribute of the transmission queue, send queue, remote queue, the queue channels, and the client-server connection channels (WebSphere MQ client). Restart any publications or Q subscriptions that use the send queue.

ASN7137W  program_name  program_identifier : The specified MAX_MESSAGE_SIZE for the publication or Q subscription name might be too small for the send queue queue_name, publishing queue map or replication queue map queue_map_name. A maximum of size bytes might be required.

Explanation: The MAX_MESSAGE_SIZE value of the publishing queue map or replication queue map that specifies this send queue might too small to contain a row in the WebSphere MQ message. If this problem occurs when the Q Capture program is running, Q Capture stops.

User response: Increase the MAX_MESSAGE_SIZE value for the queue map. Reinitialize the queue map by using the reinitq subcommand of the MODIFY or asnccmd command.

ASN7138W  program_name  program_identifier : The Q Capture program is converting the source columns from code page code_page to code page code_page for delimited publication publication_name (send queue send_queue_name).

Explanation: The source database columns are encoded using a code page that is different from the code page that is specified in the MESSAGE_CODEPAGE column of the IBMQREP_SENDQUEUES table. The Q Capture program will convert all data in the messages that it puts on the send queue.

User response: No action is necessary if data conversion is acceptable. If you wish to avoid data conversion, stop the Q Capture program and update the MESSAGE_CODEPAGE value to match the source column code page. Then start Q Capture.

ASN7139W  program_name  program_identifier : The value of HEARTBEAT_INTERVAL in the IBMQREP_SENDQUEUES table for send queue send_queue_name (publishing queue map queue_map_name) must be 0 for delimited message format.

Explanation: If you specify that a publishing queue map is used for delimited messages, the value for the interval that the Q Capture program uses to send heartbeat messages must be 0 (no heartbeat messages are sent).

User response: No action is necessary. The Q Capture program overrides the HEARTBEAT_INTERVAL value. If you do not wish to see this message, use the ASNCCLP command-line program or Replication Center to change the heartbeat interval for the queue map to 0. Then use the reinitq command or replication administration tools to reinitialize the send queue.
ASN7140E  program_name : program_identifier : The delimited publication publication_name (send queue send_queue_name) did not start because the BEFORE_VALUES attribute of the publication is not Y.

Explanation: When publishing delimited messages, the Q Capture program always sends before and after values for an update operation. If you specify that a publication uses delimited message format, you must enable before values.

User response: Use the ASNCLP or Replication Center to specify before values for the publication and then start the publication.

ASN7141E  program_name : program_identifier : The delimited publication publication_name (send queue send_queue_name) did not start because the CHANGED_COLS_ONLY attribute of the publication is not N.

Explanation: When publishing delimited messages, the Q Capture program always sends all columns for a row even if they are not changed. If you specify that a publication will use delimited message format, the CHANGED_COLS_ONLY attribute must be N.

User response: Use the ASNCLP or Replication Center to specify CHANGED_COLS_ONLY=N for the publication.

ASN7142I  program_name : program_identifier : The Q Capture program received a WebSphere MQ error with reason code reason_code when it put a message on queue queue_name using the MQPUT command. The program will retry putting the message up to number times at number second intervals before stopping.

Explanation: The Q Capture program could not put a message on the queue and received one of the following WebSphere MQ reason codes from the MQPUT operation:

• 2051: MQRC_PUT_INHIBITED
• 2053: MQRC_Q_FULL
• 2192: MQRC_STORAGE_MEDIUM_FULL
• 2346: MQRC_CF_STRUC_IN_USE
• 2373: MQRC_CF_STRUC_FAILED

When this error is received, the Q Capture program retries sending the message based on the WebSphere MQ qfull_num_retries and qfull_retry_delay parameters. This error might occur if the Q Apply program is not processing the messages on the receive queue. The Q Apply program might be stopped or the Q Capture program might be putting messages on the queue faster than WebSphere MQ can process them.

The error might also occur if many changes accumulated at the source table while the Q Capture program was stopped. This error is more likely to happen in a queue-sharing environment.

User response: This message is for your information only. No action is required.

ASN7143E  program_name : program_identifier : Oracle LogMiner found a dictionary mismatch while reading from V$LOGMNR_CONTENTS for table table_name. LogMiner status is status. Info is informational-message. All Q subscriptions for the table were stopped.

Explanation: Oracle LogMiner found a dictionary mismatch and could not translate the log record. Possible causes include:

• Database-wide supplemental logging is not enabled.
• Table-level supplemental logging is not enabled for the subscribed table.
• A subscribed table was altered and Q Capture was restarted at a system change number (SCN) location that is earlier than the DDL change.

All of these situations can cause a mismatch between the online dictionary and the format of the log records.

User response: Enable database-wide supplemental logging on the Oracle source database. Additionally, enable table-level supplemental logging for all subscribed tables. Start all Q subscriptions for the table.

ASN7145E  program_name : program_identifier : Oracle LogMiner found a missing system change number (SCN) range in the list of redo log files that were being processed. The Oracle error message is 'oracle_message'. The Q Capture program cannot proceed because of missing log records. The program will stop.

Explanation: Log records that are needed by the Q Capture program are missing. The program stops so that you can locate missing redo log files or archive log files.

User response: Use the Oracle error message to
identify which redo or archived logs contain these SCN values and make these files available to Oracle, then start Q Capture. If these missing log files are no longer available, a cold start is required.

ASN7147E  program_name : program_identifier : An error occurred while attempting to start an Oracle LogMiner session. The Oracle error is error.

Explanation: The Q Capture program uses Oracle LogMiner to read log records for the Oracle source table. LogMiner returned an error while trying to start.

User response: See the Oracle messages and codes documentation for the cause and action related to this error and perform the recommended action.

ASN7148E  program_name : program_identifier : The program encountered an Oracle Call Interface (OCI) error while performing the operation operation. The Oracle error is error.

Explanation: An error occurred when the Q Capture, Q Apply, or Replication Alert Monitor program issued an OCI call. The error might be caused by an Oracle problem that needs to be investigated, such as an out-of-space condition, or Oracle might be unavailable for use by applications. This message is sometimes followed by a second message that provides information about what the replication program was doing when the error occurred.

User response: See the Oracle messages and codes documentation for an explanation of this error code and for information about corrective actions that you might need to take in Oracle. If a replication program issued another message immediately after this one, see the explanation and user response for that message.

ASN7149E  program_name : program_identifier : The program encountered an Oracle C++ Call Interface (OCCI) error while performing an SQL operation. The operation is operation. The server name is server_name. The SQL request is sql_request. The table name is table_name. The Oracle error code is error_code. The error message is error_message.

Explanation: An error occurred when the Q Capture, Q Apply, or Replication Alert Monitor program issued an OCCI call. The error might be caused by an Oracle problem that needs to be investigated, such as an out-of-space condition, or Oracle might be unavailable for use by applications. This message is sometimes followed by a second message that provides information about what the replication program was doing when the error occurred.

User response: See the Oracle messages and codes documentation for an explanation of this error code and for information about corrective actions that you might need to take in Oracle. If a replication program issued another message immediately after this one, see the explanation and user response for that message.

ASN7150E  program_name : program_identifier : The program encountered an Oracle C++ Call Interface (OCCI) error while performing the operation operation. The Oracle error code is error_code. The error message is error_message.

Explanation: An error occurred when the Q Capture, Q Apply, or Replication Alert Monitor program issued an OCCI call. The error might be caused by an Oracle problem that needs to be investigated, such as an out-of-space condition, or Oracle might be unavailable for use by applications. This message is sometimes followed by a second message that provides information about what the replication program was doing when the error occurred.

User response: See the Oracle messages and codes documentation for an explanation of this error code and for information about corrective actions that you might need to take in Oracle. If a replication program issued another message immediately after this one, see the explanation and user response for that message.

ASN7151E  program_name : program_identifier : The program encountered an unsupported data type during internal processing. The column name is column_name. The table name is table_name.

Explanation: An internal error occurred during processing of an Oracle log record.

User response: Redefine the Q subscription for the table if this data type is not supported. Otherwise, contact IBM Software Support.

ASN7153W  program_name : program_identifier : A TRUNCATE TABLE log record was detected and ignored for table table_name.

Explanation: TRUNCATE TABLE statements are not replicated by the Q Capture program. Any rows that were deleted from the source table by the statement were not deleted from the target table.

User response: This message is for your information only, and no action is required.
ASN7154E  program_name : program_identifier : The source table table_name for publication or Q subscription name does not have table-level supplemental logging enabled for all columns. No data will be captured for this publication or Q subscription.

Explanation: The source table is incorrectly defined. The SUPPLEMENTAL LOG DATA attribute must be defined for all columns.

User response: Alter the source table so that SUPPLEMENTAL LOG DATA (ALL) COLUMNS is enabled and restart the publication or Q subscription.

For example:
alter table <src_owner>..<src_table>
    add supplemental log data (all) columns;

ASN7155I  program_name : program_identifier : The Q Capture program started processing log records in log file log_file_name.

Explanation: When the Q Capture program started, this log file contained the first DB2 log sequence number (LSN) or Oracle system change number (SCN) that the program read.

User response: This message is for your information only. No action is required.

ASN7156I  program_name : program_identifier : The Q Capture program stopped processing log records in log file log_file_name.

Explanation: When the Q Capture program stopped, this log file contained the last DB2 log sequence number (LSN) or Oracle system change number (SCN) that the program read.

User response: This message is for your information only. No action is required.

ASN7157E  program_name : program_identifier : The value value in the COMPATIBILITY column of the IBMQREP_CAPPARMS control table is not allowed for Q Capture for Oracle sources. Only values of '0905' and above are allowed. The Q Capture program stopped.

Explanation: At startup, the Q Capture program found an unsupported value in the COMPATIBILITY column. Q Capture for Oracle sources only support the inline send option for LOBs.

User response: Update the COMPATIBILITY column in IBMQREP_CAPPARMS to '0905'.

ASN7158E  program_name : program_identifier : The value value in the LOB_SEND_OPTION column of the IBMQREP_CAPPARMS control table is not supported for Q Capture for Oracle sources. The only supported value is "I". Large-object (LOB) data is sent inline.

Explanation: At startup, the Q Capture program found an unsupported value in the LOB_SEND_OPTION column. Q Capture for Oracle sources only supports the inline send option for LOBs.

User response: Update the LOB_SEND_OPTION column in IBMQREP_CAPPARMS to "I".

ASN7160W  program_name : program_identifier : The average time that it took the Q Capture program to receive a batch of log records from the Oracle LogMiner utility during the most recent monitor interval exceeded the Q Capture commit interval. The minimum, maximum, and average fetch durations (in milliseconds) were minimum_fetch_time, maximum_fetch_time, average_fetch_time.

Explanation: During the last period when Q Capture wrote performance statistics to its control tables, the average amount of time that Q Capture took to receive a batch of log records from LogMiner was greater than the value of the Q Capture commit_interval parameter. This parameter sets the length of time that Q Capture waits to commit messages that are on the send queue to WebSphere MQ. An average fetch time that is larger than the commit interval slows Q Capture performance.

User response: Update the commit_interval parameter to a value in milliseconds that is greater than or equal to the average fetch duration that is shown in this error message.

ASN7166W  program_name : program_identifier : The data for LOB or XML columns has not been sent because the transaction size size_bytes exceeds the maximum message size size_bytes of the send queue. The subscription or publication is name. The LOB or XML column column_name is in the source table table_name. The row has key columns key_columns with key values key_values. The error action of the send queue will be performed.

Explanation: The LOB or XML data was too large for the transaction message.

User response: Increase the MAX_MESSAGE_SIZE value in the IBMQREP_SENDQUEUES table. You might also need to increase the size of the MAXMSGL parameter for the WebSphere MQ send queue. Ensure that the value for the MAX_MESSAGE_SIZE parameter
is at least 4KB smaller than value for the MAXMSGL parameter.

If you cannot increase the MAX_MESSAGE_SIZE parameter, you can set the LOB_SEND_OPTIONS value in the IBMQREP_CAPPARMS table to 'S' to send the LOB values in a LOB message following the transaction message.

**ASN7167E**  
**program_name** : **program_identifier** : The Q Capture program could not activate a Q subscription or publication for table `table_owner.table_name`. The table was altered. The table version is `version`.

**Explanation:** The Q Capture program cannot decode log records if a table is altered. After you create a Q subscription or publication that specifies a source table, you must not alter the table before activating the Q subscription or publication. The table version must be 0.

**User response:** Reorganize the table and activate the Q subscription or publication.

**ASN7168E**  
**program_name** : **program_identifier** : The characters that were chosen for a column delimiter, record delimiter, string delimiter, and decimal point are not unique for publishing queue map `queue_map_name` that specifies send queue `queue_name`.

**Explanation:** None of the four types of delimiters that are used for delimited messages in event publishing can use the same character.

**User response:** Use the Q Replication Dashboard or Replication Center to change the publishing queue map so that all of the delimiters have unique values. Then restart the Q Capture program.

**ASN7169E**  
**program_name** : **program_identifier** : The characters that were chosen for a column delimiter, record delimiter, string delimiter, and decimal point are invalid for the publishing queue map `queue_map_name` that specifies send queue `queue_name`.

**Explanation:** The delimiters that are used for delimited messages in event publishing cannot be alphanumeric characters (0-9, aA-zZ).

**User response:** Use the Q Replication Dashboard or Replication Center to change the publishing queue map so that none of the delimiters use alphanumeric characters. Then restart the Q Capture program.

**ASN7170E**  
**program_name** : **program_identifier** : The value of the max_message_size parameter for replication or publishing queue map `queue_map_name` that specifies send queue `queue_name` was exceeded.

**Explanation:** A WebSphere MQ message was put on the send queue that is larger than the maximum message size limit that was defined for the queue map that uses this queue.

**User response:** Increase the value of max_message_size for the queue map and reinitialize the Q Capture program.

**ASN7171E**  
**program_name** : **program_identifier** : The program stopped because the data for a LOB or XML column was too large and the error action of the replication or publishing queue map `queue_map_name` that includes send queue `queue_name` was to stop the program.

**Explanation:** Data in LOB or XML columns is sent within the transaction message. If the LOB or XML data is large, you might need to increase the maximum message size for WebSphere MQ messages. Two parameters govern the allowable size of messages: max_message_size for queue maps, and MAXMSGL (maximum message length) for the WebSphere MQ queue.

**User response:** Increase the value of max_message_size for the queue map and reinitialize the Q Capture program. You might also need to increase the size of MAXMSGL for the WebSphere MQ send queue that is specified in the queue map. Ensure that the value for max_message_size is at least 4 KB smaller than the value for MAXMSGL.

**ASN7172E**  
**program_name** : **program_identifier** : The publication `publication_name` (send queue `queue_name`, publishing queue map `queue_map_name`) that is set up for delimited message format (message_format=D) cannot be activated because the Q Capture lob_send_options parameter is set to S (send LOB values in a separate message).

**Explanation:** The delimited message format does not support sending LOB values in a separate message. The delimited message format only supports sending a LOB value within the transaction message (lob_send_options=I).

**User response:** Use the replication administration tools to set lob_send_options=I. Then reinitialize the Q Capture program and start the publication.
ASN7173W  program_name : program_identifier : The send queue queue_name was deactivated because of an MQPUT error error_number. The Q Capture program continues putting messages on other send queues based on the Q (stop queue) error action in the IBMQREP_SENDQUEUES table. You can use the startq command to resume replication or publishing on the queue after you correct the problem.

Explanation: The Q error action prompts Q Capture to continue putting messages on active send queues even when one send queue is deactivated. Q Capture saves restart information for Q subscriptions or publications that use the deactivated send queue, and can recapture changes for this queue from the log and bring it up to the same restart point as the other queues.

User response: Use the WebSphere MQ error number to determine the problem that caused the error on the queue, and then use the startq command to resume replication or publishing on the queue.

ASN7179W  program_name : program_identifier : The Q Capture program is unable to activate the Q subscription name for source table table-owner_table.name because the send queue queue_name that is used by the Q subscription is in an inactive (I) state and other active Q subscriptions use the send queue. The CAPSTART signal to activate the Q subscription is ignored by Q Capture.

Explanation: When a send queue is inactive either because it was stopped by the stopq command or because of an error, the Q Capture program cannot activate Q subscriptions that specify the queue unless no other active Q subscriptions use the queue, or the queue is started.

User response: Take one of the following actions:
• Use the startq command to resume replication or publishing on the queue.
• Stop all other active Q subscriptions that use the queue and then start the Q subscription that is specified in this message.
• Stopping and starting the other active Q subscriptions prompts a new load (full refresh) of the target tables for all of the Q subscriptions. If you
want to prompt a new load for just the table that is specified in the message text, use the `startq` command.

**ASN7180E**  
`program_name : program_identifier : The Q Capture program log read failed because the DB2 compression dictionary that was used to create the compressed log record no longer exists. The log record that could not be read was for the source table `table_owner.table_name`. The reason code is `reason_code`.

**Explanation:** The Q Capture program received an error from the DB2 log read interface. The reason code is a DB2 for z/OS reason code or on Linux, UNIX, or Windows a SQLCODE. The error indicates that the data on a log record cannot be processed because the compression dictionary for the corresponding DB2 table or table space is permanently gone. The compressed table or table space that contains this source table was probably reorganized by the REORG utility that ran without the KEEPDICTIONARY option. The Q Capture program cannot read the remaining compressed log records from source changes that occurred before the reorganization, and so it deactivated the Q subscription. Q Capture then activates the Q subscription and prompts a new load of the target table if a load is specified.

**User response:** If the Q subscription specifies an automatic load of the target table, no action is required. If the Q subscription specifies a manual load, you must take actions to reload the target and issue a LOADDONE signal to Q Capture. Q Apply will spill changes to the spill queue until it sees the LOADDONE message from Q Capture. If the Q subscription specifies no load, you must take actions to reload the target and reactivates the Q subscription.

**Explanation:** The source partitioned table was altered to add a partition. The Q Capture or Capture program does not replicate this alteration, and so the new partition is not automatically added to the target table. Subsequent inserts, updates, and deletes to this newly added partition are captured. If the target is an identically partitioned table and the new source partition does not exist at the target, errors occur when the Q Apply or Apply program tries to apply rows to the target.

**User response:** If you require the new partition at the target you must manually add it.

**ASN7184W**  
`program_name : program_identifier : The signal `signal` of type `signal_type` failed because the send queue `queue_name` that is used by the Q subscription `subscription_name` is in an inactive (I) state. The Q Capture program ignored the signal.

**Explanation:** When a send queue is inactive either because it was stopped by a `stopq` command or because of an error, the Q Capture program cannot process signals for Q subscriptions that use the queue until the queue is started.

**User response:** Use the `startq` command to resume replication or publishing on the queue and then reinsert the signal or repeat the action that resulted in the signal insert.

**Explanation:** The Q Capture program received an error from the DB2 log read interface. The error indicates that the data on a log record cannot be processed because the compression dictionary for the corresponding DB2 table or table space is temporarily unavailable. For z/OS, the reason code is a z/OS diagnostic code. For Linux, UNIX, and Windows, the reason code is an SQL code. One cause for the problem could be that the compressed table space is in the STOPPED state when the DB2 Log Read Interface attempts to read the compression dictionary. DB2 takes a latch on the source compressed table space to access the dictionary and the latch does not work if the table space is stopped. This error prompts the Q Capture program to deactivate the Q subscription for the source table.

**User response:** The problem will be resolved when the compression dictionary becomes available. Restart the Q Capture program.
attached data at the target, you must manually load it into the target.

**Explanation:** The source partitioned table was altered to detach a partition. The Q Capture or Capture program does not support replication of this alteration, and so the detached partition is not detached at the target and the DELETE operations are not replicated to the target.

**User response:** If you no longer want the partition or its data at the target, detach the partition or delete the data.

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**ASN7186W**

* program_name : program_identifier : Data partition data_partition_number was detached from the source table table_owner.table_name.

**Explanation:** The Q Capture program detected data changes at the source table by one of the following utilities:

- **DB2 for z/OS**
  - LOAD SHRLEVEL NONE RESUME YES
  - LOAD SHRLEVEL NONE REPLACE
  - REORG TABLESPACE DISCARD
  - CHECK DATA DELETE YES LOG NO
  - RECOVER PIT
  - EXCHANGE DATA ON CLONE TABLESPACE

- **DB2 for Linux, UNIX, and Windows**
  - DB2 LOAD

For the following DB2 utilities, Q Capture acts based on the CAPTURE_LOAD value:

- LOAD SHRLEVEL NONE RESUME YES
- LOAD SHRLEVEL NONE REPLACE
- REORG TABLESPACE DISCARD
- CHECK DATA DELETE YES LOG NO
- RECOVER PIT
- EXCHANGE DATA ON CLONE TABLESPACE

**User response:** If CAPTURE_LOAD is set to W or the DB2 utility is not supported by CAPTURE_LOAD, take action to ensure that the source and target tables are synchronized.

**ASN7187E**

* program_name : program_identifier : The value of the CAPTURE_LOAD column in the IBMQREP_SUBS control table is set to R for Q subscription name. This value is only supported in unidirectional, bidirectional, and peer-to-peer Q subscriptions with a maximum of two servers. However, a load operation was detected on the source table. The Q Capture program stopped.

**Explanation:** CAPTURE_LOAD is set to R but the Q subscription type is peer-to-peer with more than two servers. The R value is only supported for unidirectional, bidirectional, and peer-to-peer replication with two servers.

**User response:** Change the value of CAPTURE_LOAD to W for all Q subscriptions that participate in the peer-to-peer group. Because the source table was loaded, the source and target tables are not synchronized. Take the following actions:

1. Manually synchronize the tables by using the asntdiff and asntrep utilities.
2. Set CAPTURE_LOAD to W.
3. Start Q Capture in warm mode. Q Capture issues a warning message when it detects the source table load operation in the log.
The value of the CAPTURE_LOAD option in the IBMQREP_SUBS control table is set to R. The value of the HAS_LOADPHASE option in the IBMQREP_SUBS control table is set to N. If the Q Capture program detects a load operation, the Q subscription name (send queue queue_name, replication queue map queue_map_name) will be restarted by Q Capture without a load phase.

**Explanation:** If the Q Capture program detects a load operation and the CAPTURE_LOAD value is set to R, Q Capture restarts the Q subscription. During the restart process the Q Apply program uses the HAS_LOADPHASE value to determine the type of load to use. If the HAS_LOADPHASE value is set to N the Q Apply program does not load the source table. The source and target tables become out of synch because the target table is not loaded with the latest data from the source table. If the source and target tables become out of synch, you must synchronize the tables.

**User response:** In the IBMQREP SUBS control table, review the settings for the CAPTURE_LOAD option and the HAS_LOADPHASE option for the affected Q subscription.

The Q subscription name (send queue queue_name, replication queue map queue_map_name) for table table_owner.table_name was restarted because a utility_name operation was detected in the database recovery log.

**Explanation:** The Q Capture program detected a utility operation that changed data in the source table and the CAPTURE_LOAD option is set to R. The Q subscription was restarted. The restart prompts a new load of the target table, which includes, if applicable, any newly loaded data.

**User response:** This message is for your information only. No action is required.

The value of the CAPTURE_LOAD column in the IBMQREP_SUBS control table is set to R for Q subscription name (send queue queue_name, replication queue map queue_map_name). However, the compatibility level is compatibility_level. The Q Capture program will report but not replicate load operations that it detects at the source table.

**Explanation:** The CAPTURE_LOAD option of R is only valid with a compatibility level of 0907 or higher, which requires both the Q Capture and Q Apply program to be at Version 9.7 or higher. When CAPTURE_LOAD is set to R for Version 9.7 and higher, load operations at the source table are replicated by using the load type that was chosen for the Q subscription.

**User response:** To enable the replicate load feature, upgrade the Q Apply program to Version 9.7 or higher and set the COMPATIBILITY value in the IBMQREP_CAPPARMS table to 0907 or higher.
attached to a table before Q Capture starts the first Q subscription for the table, the system catalog information might not correctly reflect where Q Capture is in the log. For a newly attached partition, Q Capture might incorrectly capture rows from the table before it was attached as a partition.

User response: Stop and then start the Q subscription.

Explanation: When the Q Capture program starts the first Q subscription for a table, it gathers table information from the system catalogs. If a partition was detached from the table before Q Capture starts the first Q subscription for a table, the system catalog information might not correctly reflect where Q Capture is in the log. For a newly detached partition, Q Capture might incorrectly not capture rows from the partition before it was detached.

User response: Stop and then start the Q subscription.

Explanation: Batching of transactions can only be used when large object (LOB) data is sent within a single transaction message. If the trans_batch_sz parameter is set to greater than 1, the lob_send_options parameter must be set to I (inline) rather than the required setting of S. The Q Capture program stops.

User response: Set the lob_send_option parameter to I and restart the Q Capture program.

Explanation: The $AUTHTOKEN and $PLANNAME variables cannot be used for change conditions on Linux, UNIX, and Windows. These variables are only available in the database log record on z/OS operating systems. On Linux, UNIX, and Windows, you can use the $OPERATION and $AUTHID variables.

User response: Ensure that the search condition and change condition are in the proper format and restart the publication or Q subscription. See “Log record variables to filter rows (unidirectional replication)” in the DB2 Information Center for details about the correct way to specify a search condition or change condition.
process does not have sufficient authority to open the file.

User response: Verify that the user ID that is associated with the Q Capture process has sufficient authority. If the file was inadvertently deleted, create a new restart file and restart Q Capture. Q Capture writes the restart information to standard output after it starts reading the log and after its last WebSphere MQ commit before terminating (Q Capture also writes the restart information to the restart data set or file at this time). Copy the restart information from the standard output or job log into the restart message.

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**ASN7203E**  
`program_name : program_identifier : The send queue queue_name does not exist in the restart information. The program did not start.`

**Explanation:** The Q Capture program was started with the `override_restartq` parameter set to `Y` (yes). This setting prompts Q Capture to get its restart information from a file instead of the restart queue, and enables you to specify individual restart points for one or more send queues. However, Q Capture was unable to find a queue that is used by any active Q subscriptions in the restart file.

**User response:** In the restart file, specify a queue that is used by an active Q subscription and restart Q Capture.

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**ASN7205E**  
`program_name : program_identifier : The Q Capture program cannot be started in warm mode by using the `override_restartq=y` parameter because the lsn and maxcmtseq parameters were also specified. Either specify lsn and maxcmtseq or specify `override_restartq`.

**Explanation:** The Q Capture program can be started with global restart information by using the lsn and maxcmtseq parameters together during a warm start. Or, Q Capture can be started from different restart points for each send queue by using the `override_restartq=y` parameter. You cannot specify both lsn/maxcmtseq and `override_restartq`.

**User response:** Start Q Capture with global warm start information (lsn and maxcmtseq) or start Q Capture with warm start information from the restart file (`override_restartq`).

---

**ASN7206E**  
`program_name : program_identifier : The Q Capture program cannot write to the restart queue override file file_name because of a system error error_code. Q Capture will continue running.`

**Explanation:** The Q Capture program writes restart information for each send queue to a file with the data set name or file name `capture_path/qrestart`, where `capture_path` is the value of the `capture_path` parameter. Either the user ID that started the Q Capture program does not have access authority for the file, or the file is too small.

**User response:** Ensure that the user ID that started the Q Capture program has correct access and security permissions for the file. Also, ensure that sufficient space has been allocated for the file.

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**ASN7207I**  
`program_name : program_identifier : The contents of the restart queue override file are as follows: <send_queue_name>, <restart_lsn>, <maxcmtseq>, <partition> (only for partitioned databases):

**Explanation:** The Q Capture program records restart information in a data set or file in addition to the restart message. Q Capture starts reading the log from the restart log sequence number (the lowest LSN of a transaction still to be committed) and ignores any transactions whose commit is before the maximum commit sequence number (the highest LSN of a successful transaction). In a partitioned database, these log indicators come from the partition where the Q Capture program is running.

**User response:** This message is for your information only. No action is required.

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**ASN7208I**  
`program_name : program_identifier : An ALTER TABLE ALTER COLUMN statement was detected for column column_name of table table_name with a new data type of data_type. The column was automatically altered for Q subscription name.`

**Explanation:** The Q Capture program detected that a column that is part of a Q subscription was altered. A message is automatically sent to the Q Apply program to make a matching alteration of the column at the target.

**User response:** This message is for your information only. No action is required.

---

**ASN7209I**  
`program_name : program_identifier : Column column_name of table table_name was automatically added to publication or Q subscription name.`

**Explanation:** The Q Capture program detected that a column was added to a subscribed table, and the value of the `repl_addcol` parameter is `Y` (yes). The parameter specifies that newly added columns should automatically be added to the Q subscription for the table, and so the column was added. The column will be added to the target table if it does not already exist.

**User response:** This message is for your information only. No action is required.
ASN7210I  program_name: program_identifier: Q subscription name that corresponds to schema-level subscription name was successfully created for the source table table_owner.table_name that uses send queue queue_name and replication queue map queue_map_name.

Explanation: The schema-level subscription specifies that the replication programs should automatically create Q subscriptions for all tables with the specified table owner. The table-level Q subscription was successfully created.

User response: This message is for your information only. No action is required.

ASN7211E  program_name: program_identifier: A Q subscription name already exists for the source table table_owner.table_name, and the Q subscription cannot be overwritten because it is in a state other than inactive (I). The Q subscription specifies the send queue queue_name and queue map queue_map_name. The program will stop.

Explanation: A schema-level Q subscription exists that specifies that the replication programs should automatically create Q subscriptions for all tables with the same table owner. The Q Capture program tried to create a Q subscription for the specified table, but a Q subscription for the table already exists. If the Q subscription were inactive, a new Q subscription would have been created that overwrote the existing Q subscription.

User response: Follow these steps:
1. Use the replication administration tools to delete the existing Q subscription or set its state to inactive (I) so that it can be overwritten.
2. Start the Q Capture program.

ASN7212E  program_name: program_identifier: The Q subscription name could not be started because it was in the process of being stopped.

Explanation: The Q Capture program had previously received a CAPSTOP signal for this Q subscription and was in the process of stopping it.

User response: After the Q subscription state changes to I (inactive), use the replication administration tools or insert a CAPSTART signal to start the Q subscription again.

ASN7213I  program_name: program_identifier: The program will publish changes up to database commit timestamp timestamp and then stop.

Explanation: A stop command was issued with the captureupto option that specifies that Q Capture stop after publishing database transactions that are committed up to and including the provided timestamp. The timestamp is treated as being in the database time zone.

User response: This message is for your information only. No action is required.

ASN7214I  program_name: program_identifier: The program will publish changes up to database commit timestamp timestamp, wait for changes to be sent or applied, and then stop.

Explanation: You can specify when a Q Capture program stops by using the parameter named captureupto. You can cause a Q Capture program to stop after the program publishes all of the database transactions that are committed up to and including a certain timestamp by specifying that timestamp with the captureupto parameter. This message is returned when the Q Capture program was stopped, and the parameter named captureupto was specified. The timestamp is treated as being in the database time zone.

The stopafter option was also specified in the stop command. The program will wait to stop until one of the following conditions is met, depending on which condition was specified:

• The transmission queue is empty (or Q Apply has consumed all messages if the queue is local).
• All changes up to the stopping point are applied at the target.

User response: This message is for your information only. No action is required.

ASN7215I  program_name: program_identifier: The program will publish transactions up to database commit timestamp timestamp for send queue queue_name and then deactivate the queue.

Explanation: A stopq command was issued with the captureupto option that specified that Q Capture stop publishing changes to the given queue after publishing database transactions that are committed up to and including the specified timestamp. The timestamp is treated as being in the database time zone.

User response: This message is for your information only. No action is required.
ASN7216I  
program_name : program_identifier : The program will publish transactions up to database commit timestamp timestamp for send queue queue_name, deactivate the queue, and then wait for changes to be sent or applied.

Explanation: A stopq command was issued with the captureupto option that specified that Q Capture stop publishing changes to the given queue after publishing database transactions that are committed up to and including the specified timestamp. The timestamp is treated as being in the database time zone.

The stopafter option was also specified in the stopq command. The program will wait to stop until one of the following conditions is met, depending on which condition was specified:

- The transmission queue is empty (or Q Apply has consumed all messages if the queue is local).
- All changes up to the stopping point are applied at the target.

User response: This message is for your information only. No action is required.

ASN7217I  
program_name : program_identifier : The program will publish changes up to the end of the active log and then stop.

Explanation: A stop command was issued with the captureupto option eol (end of log), which specifies that Q Capture stop publishing database transactions up to the end of the active database log.

User response: This message is for your information only. No action is required.

ASN7218I  
program_name : program_identifier : The program will publish changes up to the end of the active log, wait for changes to be sent or applied, and then stop.

Explanation: A stop command was issued with the captureupto option eol (end of log), which specifies that Q Capture stop after publishing database transactions up to the end of the active database log.

The stopafter option was also specified in the stop command. The program will wait to stop until one of the following conditions is met, depending on which condition was specified:

- The transmission queue is empty (or Q Apply has consumed all messages if the queue is local).
- All changes up to the stopping point are applied at the target.

User response: This message is for your information only. No action is required.

ASN7219I  
program_name : program_identifier : The program will publish transactions up to the end of the active log for send queue queue_name, and then deactivate the queue.

Explanation: A stopq command was issued with the captureupto option that specified that Q Capture stop publishing database transactions to the given queue after it reaches the end of the active database log.

User response: This message is for your information only. No action is required.

ASN7220I  
program_name : program_identifier : The program will publish transactions up to the end of the active log for send queue queue_name, deactivate the queue, and then wait for changes to be sent or applied.

Explanation: A stop command was issued with the captureupto option eol (end of log), which specifies that Q Capture stop publishing database transactions up to the end of the active database log.

The stopafter option was also specified in the stopq command. The program will monitor and issue a message when one of the following conditions is met:

- The transmission queue is empty (or Q Apply has consumed all messages if the queue is local).
- All changes up to the stopping point are applied at the target.

User response: This message is for your information only. No action is required.

ASN7221I  
program_name : program_identifier : The program found an incorrect value value for the captureupto parameter. The command or signal is ignored.

Explanation: A stop or stopq command contains a captureupto parameter with an invalid timestamp. The timestamp must be specified in the time zone of the Q Capture server, in a full or partial timestamp format. The full timestamp uses the following format:

YYYY-MM-DD-HH.MM.SS.mmmmmm

For examples of acceptable formats for partial timestamps, see, "Stopping the Q Capture program at a specified point."

As an alternative, you can specify the keyword CURRENT_TIMESTAMP, and the Q Capture program substitutes the current time, causing it to publish transactions that are committed up to that current time.

User response: Correct the timestamp format and reissue the command or signal.
ASN7222I  program_name : program_identifier : In response to a stop or stopq command with the stopafter option, the program will monitor send queue queue_name until all published messages have been delivered to the receive queue. The current queue depth of the local queue or transmission queue queue_name is queue_depth.

Explanation: A stop or stopq command was specified with stopafter=data_sent. Q Capture will monitor the given send queue until all messages have been delivered to the receive queue (that is, until the queue depth becomes 0). For a stop command, Q Capture will terminate after all active queues are empty. For a stopq command, Q Capture will issue a message once the queue is empty. If Q Capture and Q Apply share a local queue, Q Capture will wait until Q Apply has removed all messages from the queue. In configurations where multiple remote queues share a transmission queue, Q Capture might wait longer than expected because of non-Q Capture messages being sent on the transmission queue.

User response: This message is for your information only. No action is required.

ASN7223I  program_name : program_identifier : In response to a stop or stopq command with the stopafter option, the program will wait for all transactions that are published to send queue queue_name to be applied at the target.

Explanation: A stop or stopq command was specified with option stopafter=data_applied. Q Apply will notify Q Capture when all messages are applied for the given queue. For a stop command, Q Capture will stop after Q Apply sends a response for all active queues. For a stopq command, Q Capture will issue a message when it is notified by Q Apply. If Q Apply is not running, Q Capture will wait indefinitely.

User response: This message is for your information only. No action is required.

ASN7224I  program_name : program_identifier : The Q Apply browser thread for receive queue queue_name (replication queue map queue_map_name) notified the Q Capture program that all transactions that were published to send queue queue_name up to commit sequence number commit_seq and commit timestamp timestamp were applied. The browser thread continues to process messages.

Explanation: A stop or stopq command was issued for Q Capture with option stopafter=data_applied. Q Capture requested that Q Apply send a notification when Q Apply has applied all transactions up to the time that the command was issued. Q Apply has notified Q Capture, but continues to process the receive queue.

User response: This message is for your information only. No action is required.

ASN7225I  program_name : program_identifier : All published messages have been drained from send queue queue_name.

Explanation: A stop or stopq command was issued for Q Capture with option stopafter=data_sent. Q Capture detected that all messages have been delivered to the remote receive queue (or consumed by Q Apply if it shares a local queue with Q Capture), and that the queue depth is now 0.

User response: This message is for your information only. No action is required.

ASN7226E  program_name : program_identifier : The Q Capture program could not read the restart file file_name for reason reason. The program did not start.

Explanation: The Q Capture program was started with the override_restartq parameter set to Y (yes). This setting prompts Q Capture to look in the restart file instead of the restart queue for restart information. However, Q Capture was unable to read the restart file.

User response: Verify that the user ID that started Q Capture has read authority on the restart file, which has the data set name or file name capture_path/qrestart, where capture_path is the value of the capture_path parameter.

ASN7227I  program_name : program_identifier : All transactions that were published to send queue queue_name (replication queue map queue_map_name) have been applied at the target.

Explanation: A stop or stopq command was specified with option stopafter=data_applied. Q Capture detected that all transactions that were published to the given send queue were applied to the target.

User response: This message is for your information only. No action is required.

ASN7228E  program_name : program_identifier : The program could not wait for published messages to be drained from send queue queue_name. The reason code is reason_code. The local queue or transmission queue is queue_name.

Explanation: Q Capture could not reliably determine when all messages have been delivered to the remote receive queue, or drained from the local queue if Q Capture and Q Apply are sharing a local queue. Q
Capture no longer monitors the queue depth. The following values are valid for the reason code:

1

The transmission queue name could not be derived from the remote queue definition.

2

The transmission queue appears to be shared between Q Capture and another application.

**User response:** Review the reason codes in the explanation, and take the appropriate action:

1

Check that the remote queue definition contains a valid transmission queue name.

2

Q Capture cannot wait for messages to drain when other applications are sharing the transmission queue. Use a dedicated transmission queue for the send queue to avoid this problem.

---

**ASN7229E**  **program_name**: program_identifier : The program could not wait for published transactions on send queue queue_name to be applied at the target. The reason code is reason_code.

**Explanation:** Q Capture could not determine when all transactions that were published to the given send queue were applied at the target. Q Capture is no longer waiting for the transactions to be applied. The following values are valid for the reason code:

1

Q Apply is not currently processing the associated receive queue.

2

One of the following conditions exists:

- Q Apply does not appear to be running, is not processing any receive queues that are receiving messages from this Q Capture, or the response message is not arriving on the Q Capture administration queue.
- A response was not received in a reasonable amount of time.

**User response:** Review the reason codes in the explanation, and take the appropriate action:

1

Issue a startq command for the corresponding receive queue at the target to allow the transactions to be applied.

---

**ASN7230I**  **program_name**: program_identifier : The program stopped successfully after the captureupto criteria, stopafter criteria, or both for a stop command or signal completed.

**Explanation:** A stop command or signal was issued with captureupto criteria, stopafter criteria, or both that caused Q Capture to wait for a certain condition to become true before stopping.

**User response:** This message is for your information only. No action is required.

---

**ASN7232E**  **program_name**: program_identifier : The send queue queue_name for Q subscription name is not defined in the IBMQREP_SENDQUEUES table.

**Explanation:** The program tried to load the Q subscription into memory, but the send queue name that was specified for the Q subscription could not be found in the IBMQREP_SENDQUEUES table. The error might have occurred because the Q subscription was updated with SQL other than that generated by the Replication Center or ASNCLP program, or the SQL generated by these tools was modified.

**User response:** Use one of the administration tools to drop and recreate the Q subscription.

---

**ASN7236W**  **program_name**: program_identifier : The Q subscription for source table table_owner.table_name was successfully created. When the Q Capture program created the entry for this new Q subscription in control table table_owner.table_name based on the schema-level subscription name that uses send queue queue_name, Q Capture deleted an existing Q subscription entry for the same source table.

**Explanation:** After a CREATE TABLE operation for a table with a matching schema-level subscription is detected, the Q Capture program automatically creates the Q subscription entry for this table in the IBMQREP_SUBS and IBMQREP_SRC_COLS control tables. If the Q subscription entry already exists in one or both of these control tables, Q Capture deletes the prior Q subscription entry and creates the new entry.

**User response:** You might want to determine why the Q subscription entry for the same source table already existed in this control table. If Q Capture was restarted from a prior point in the log, it might have encountered a log record for the same CREATE TABLE operation.
In response to a CREATE TABLE operation at the source database or subsystem, the Q Capture program tried to create a Q subscription for source table table_owner.table_name based on the schema-level Q subscription name that uses send queue queue_name. However, the individual Q subscription could not be created because the insertion of Q subscription information into the IBMQREP_SUBS control table failed. The SQL code or internal replication reason code is sqlcode_or_reason_code. Q Capture will continue processing changes for other Q subscriptions that use the send queue.

**Explanation:** After a CREATE TABLE operation for a table with a matching schema-level Q subscription is detected, the Q Capture program automatically creates the Q subscription entry for this table in the IBMQREP_SUBS control table. If the insertion of the Q subscription entry fails, the Q subscription is not created and replication does not start for the source table.

**User response:** If you want to replicate this source table, use the replication administration tools to create a Q subscription for the table. Make sure that the target table exists or let the replication tools create the target table. Check the SQL code or internal reason code to determine why the insert into IBMQREP_SUBS failed.

---

The command to start the Q Capture program contained both the autostop=Y and term=N parameters. The Q Capture program will stop.

**Explanation:** You cannot specify autostop=Y when the value of the term parameter is N (No). You also cannot specify term=N when the saved value of autostop in the IBMQREP_CAPPARMS table is Y.

**User response:** Restart the Q Capture program while specifying either the autostop parameter or the term=N parameter. Update the value of autostop in the IBMQREP_CAPPARMS table if necessary.

---

An invalid expression expression_list was detected in the SCHEMA_NAME column of the IBMQREP_SCHEMASUBS table for the schema-level Q subscription name that uses replication queue map queue_map_name. The Q Capture program will stop.

**Explanation:** You can use the percentage sign (%) as a wild card to specify schema-level Q subscriptions and the Q Capture program automatically creates a Q subscription for all tables within the schemas that match the wild card expression. However, you cannot specify the wild card before a schema name, for example "%AN" or "%AN%".

**User response:** Follow these steps:

1. Change the expression in the schema name in the IBMQREP_SCHEMASUBS table to an allowed wild card expression.
2. Start the Q Capture program.
3. Insert a START_SCHEMASUB signal in the IBMQREP_SIGNAL table.

---

An invalid expression expression_list was detected in the OBJECT_NAME column of the IBMQREP_SCHEMASUBS table for the schema-level Q subscription name that uses replication queue map queue_map_name. The Q Capture program will stop.

**Explanation:** You can use the percentage sign (%) as a wild card to specify schema-level Q subscriptions and the Q Capture program automatically adds Q subscription information about the columns in the source table to the IBMQREP_SRC_COLS control table. However, the insertion of this information into the control table failed. The Q subscription will be deactivated in the IBMQREP_SUBS table.

**User response:** Follow these steps:

1. Check the SQL code or internal reason code to determine why the insertion into IBMQREP_SRC_COLS failed.
2. Use the replication administration tools to delete and recreate the Q subscription for the table. Make sure that the target table exists or let the replication tools create the target table.
the Q Capture program automatically creates a Q subscription for all tables within the schemas that match the wild card expression. However, you cannot specify the wild card before an object name, for example "%AN" or "%AN%".

**User response:** Follow these steps:
1. Change the expression in the object name in the IBMQREP_SCHEMASUBS table to an allowed wild card expression.
2. Start the Q Capture program.
3. Insert a START_SCHEMASUB signal in the IBMQREP_SIGNAL table.

---

**ASN7243E**  
*program_name : program_identifier :* An overlapping expression was detected either in the SCHEMA_NAME or OBJECT_NAME column of the IBMQREP_SCHEMASUBS table for the schema-level Q subscription name that uses replication queue map queue_map_name. The Q Capture program will stop.

**Explanation:** Overlapping expressions in the schema name are not allowed. For example, expressions such as "AN%" and "AN%" cannot be used at the same time.

**User response:** Follow these steps:
1. Change the expression in the schema name or object name in the IBMQREP_SCHEMASUBS table.
2. Start the Q Capture program.
3. Insert a START_SCHEMASUB signal in the IBMQREP_SIGNAL table.

---

**ASN7244E**  
*program_name : program_identifier :* An expression was detected in the SCHEMA_NAME column of the IBMQREP_EXCLUSHEMA table. The Q Capture program will stop.

**Explanation:** You can use an expression to exclude objects like tables from schema-level Q subscriptions. The expressions are stored in the IBMQREP_EXCLUSHEMA table. However, you cannot use expressions in the SCHEMA_NAME column of the IBMQREP_EXCLUSHEMA table.

**User response:** Remove the expression in the SCHEMA_NAME column of the IBMQREP_EXCLUSHEMA table and start the Q Capture program.

---

**ASN7247I**  
*program_name : program_identifier :* The Q Capture program successfully loaded the schema-level subscription name and its corresponding profile. The Q subscription uses replication queue map queue_map_name and specifies that Q subscriptions should automatically be created in schema schema_name for object_name objects.

**Explanation:** As a result of processing the log record that corresponds to a REINIT_SCHEMASUBS signal, the Q Capture program successfully loaded the schema-level subscription that is defined in the IBMQREP_SCHEMASUBS table and the corresponding profile that is defined in the IBMQREP_SUBS_PROF table.

**User response:** This message is for your information only. No action is required.

---

**ASN7248W**  
*program_name : program_identifier :* The Q Capture program detected a table table_owner.table_name that matches the schema-level subscription name but is not part of a table-level Q subscription.

**Explanation:** Q Capture program found an unsubscribed table for the schema-level subscription that is defined in the IBMQREP_SCHEMASUBS table. This situation is unexpected because the replication administration tools create Q subscriptions for all existing tables within a schema when a schema-level Q subscription is created. However, this situation can occur if new tables are created between the time that the table-level Q subscriptions are created and the schema-level subscription is loaded. For example, a user could generate the script to create Q subscriptions for all existing tables, but wait days before running this script, during which time new tables are created.

**User response:** Use the replication administration tools to create a Q subscription for this table if desired.

---

**ASN7249E**  
*program_name : program_identifier :* An invalid expression expression_list was detected in the OBJECT_NAME column of the IBMQREP_EXCLUSHEMA table.

**Explanation:** You can use the percentage sign (%) as a wild card in the OBJECT_NAME column of the IBMQREP_EXCLUSHEMA table to specify the names of objects such as tables that should be excluded from a schema-level subscription. Use a single % to specify that all objects for the given schema be excluded. However, you cannot specify the wild card before an object name, for example "%AN" or "%AN%".

**User response:** Change the expression in the OBJECT_NAME column of the IBMQREP_EXCLUSHEMA table and start the Q Capture program.
ASN7250E  program_name : program_identifier : The Q subscription name for source table table_owner.table_name that is based on the schema-level Q subscription name (receive queue queue_name, replication queue map queue_map_name) could not be activated. Replication should be manually set up for this table.

**Explanation:** After a CREATE TABLE operation is detected for a table with a matching schema-level Q subscription, the Q Capture program informs the Q Apply program so that it can automatically create and activate a table-level Q subscription. If the Q subscription activation fails, the Q subscription will be deactivated and future changes will be ignored for this source table.

**User response:** Use the replication administration tools to create a new Q subscription for the table or to activate the existing Q subscription. Make sure that the source and target tables exist or let the replication tools create the target table. Also, verify that the table will be loaded either by the Q Replication programs or externally.

ASN7251I  program_name : program_identifier : The Q Capture program successfully deactivated the schema-level Q subscription name that uses replication queue map queue_map_name, schema schema_name, and object object_name.

**Explanation:** In response to a STOP_SCHEMASUB signal that was inserted into the IBMQREP_SIGNAL table, the Q Capture program deactivated the schema-level Q subscription.

**User response:** This message is for your information only. No action is required.

ASN7252I  program_name : program_identifier : The Q Capture program successfully reinitialized the schema-level Q subscription name that uses replication queue map queue_map_name, schema schema_name, and object object_name.

**Explanation:** In response to a REINIT_SCHEMASUB signal that was inserted into the IBMQREP_SIGNAL table, the Q Capture program reinitialized the schema-level Q subscription.

**User response:** This message is for your information only. No action is required.

ASN7253E  program_name : program_identifier : An ALTER TABLE ALTER COLUMN SET DATA TYPE operation was detected for source table table_owner.table_name. The Q Capture program does not support replication of this operation when its compatibility level is level. All Q subscriptions for this table will be deactivated.

**Explanation:** The Q Capture program can replicate some DDL operations at source tables. However, replication of the ALTER TABLE ALTER COLUMN SET DATA TYPE operation is not supported if the value of the Q Capture compatibility parameter is 0907 or lower.

**User response:** Use the replication administration tools to update the value of the compatibility parameter to 1001 or newer and start the Q subscriptions.

ASN7254W  program_name : program_identifier : The DB2 database configuration parameter LOG_DDL_STMTS must be set to YES before DDL statements can be replicated.

**Explanation:** At least one schema-level subscription is active, but the database is not currently logging DDL statements. To replicate CREATE TABLE and other DDL statements, the database configuration must be updated so that DB2 logs these statements.

**User response:** Update the database configuration parameter LOG_DDL_STMTS to YES. The change is reflected in the database immediately.

ASN7255E  program_name : program_identifier : An operation by utility utility_name was performed on table table_owner.table_name while Q subscription name (send queue queue_name, replication queue map queue_map_name) was still in loading state. The Q subscription is being deactivated.

**Explanation:** A utility operation was detected in the log while the Q subscription was still in loading state. The Q subscription was set up to replicate source table loads (CAPTURE_LOAD R). Invoking a utility while the Q subscription is in loading state disrupts the load protocol and might lead to SQL errors while changes are being applied from the spill queue to target tables.

**User response:** Wait for the Q subscription to stop and become inactive. Then start the Q subscription. If CAPTURE_LOAD is set to R, always wait for the Q subscription to become active before invoking a utility that triggers a reload of the target table.
2. Update the entries for this column in the SRC_COLNAME column of the IBMQREP_SRC_COL table and the SOURCE_COLNAME and TARGET_COLNAME columns of the IBMQREP_TRG_COL table.

3. Check the value of ERROR_ACTION in the IBMQREP_TARGETS table and take one of the following actions:
   - If the Q subscription was stopped (ERROR_ACTION of D), start the Q subscription.
   - If the receive queue was stopped (ERROR_ACTION of Q), start the queue.
   - If the Q Apply program was stopped (ERROR_ACTION of S), start the Q Apply program.

---

**Explanation:**

The current compatibility level prevents sending of messages to Q Apply that are required to automatically create Q subscriptions and replicate DDL operations. Replication of DDL operations requires a compatibility level of 1001 or higher.

**User response:**

If Q Apply is at the same level as Q Capture, set the compatibility level in Q Capture to match the Q Capture version that is installed.

---

**ASN7256W**

**program_name :** program_identifier : A signal_type signal was received for source table table_owner.table_name, Q subscription name. The Q Capture program cannot process this signal when its compatibility level is level. The Q Capture program ignores the signal.

**Explanation:**

The signal that was received cannot be processed because the resulting message that would be sent to Q Apply is restricted by the current compatibility level.

**User response:**

If Q Apply is at the same level as Q Capture, set the Q Capture compatibility level to match the Q Capture version that is installed and reissue the signal.

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**ASN7307W**

**program_name :** program_identifier : The table table_owner.table_name that is part of the schema-level Q subscription name that uses send queue queue_name was not enabled for replication because the table was explicitly created with DATA CAPTURE NONE.

**Explanation:**

When a CREATE TABLE operation for a table with a matching schema-level Q subscription is detected, the table must have the DATA CAPTURE CHANGES attribute set. If the CREATE TABLE command explicitly specifies DATA CAPTURE NONE, it is treated as an indication that the user does not want this table replicated, and this takes precedence over any matching schema-level Q subscription.

**User response:**

If you want to replicate this table, follow these steps:

1. Alter the table with DATA CAPTURE CHANGES.
2. Use the replication administration tools to create a table-level Q subscription for the table.
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ASN7504E  program_name : program_identifier: The Q Apply program cannot obtain number bytes of storage in routine routine_name. The program stops.

Explanation:  The Q Apply program did not have enough physical memory that was requested from the operating system to allocate an internal data structure.

User response:  Ensure that enough memory is available from the operating system before starting the Q Apply program.

ASN7505E  program_name: program_identifier: The attributes of the target columns are not set up correctly for the Q subscription name on the receive queue queue_name, for the replication queue map queue_map_name. The reason code is reason_code.

Explanation:  An error in the setup of the columns of the IBMQREP_TRG_COLS table. The following values are valid for the reason code:

0  The number of columns specified in the IBMQREP_TRG_COLS table does not match the number of columns in the target table. There are more columns defined in the IBMQREP_TRG_COLS table than exist in the target.

1  The value of the MSG_COL_NUMBER column in the IBMQREP_TRG_COLS table is not unique.

2  The key columns are not the leading columns with respect to the MSG_COL_NUMBER in the IBMQREP_TRG_COLS table.

3  The value in the MSG_COL_NUMBER column is out of range. The value is either less than zero or greater than the maximum columns that are defined by the IBMQREP_TRG_COLS table.

4  No columns are defined that can uniquely identify a row. Q Replication requires that at least one column is unique.

5  One or more of the following columns are NULL in the IBMQREP_TRG_COLS table: MSG_COL_NUMBER, MSG_COL_TYPE, MSG_COL_CODEPAGE, or MSG_COL_LENGTH.

6  No unique index corresponds to the declared key columns. The DB2 database must have a constraint that one row from the source table corresponds to exactly one row in the target table. The Q Apply program uses unique index information to schedule parallelism of transactions. Therefore a unique index must be declared for each target table.

7  The target column has SQL Expressions in a key column but the source columns are not part of replication IS_KEY. All source columns used in a key expression must be defined as key columns in the IBMQREP_SRC_COLS control table at the capture server.

8  The Q subscription specifies an expression on both XML columns and key columns. You cannot replicate XML expressions on both XML columns and key columns.

User response:  Review the reason codes in the explanation, and take the appropriate action:

Reason Codes 0, 1, 2, 3, and 5 require the same user response. For each of these reason codes take the following user response action.

Redefine your Q subscription by using the replication administration tools and activate the Q subscription.

4  Redefine the Q subscription and identify the unique columns by using one of the replication administration tools. Then activate the Q subscription.

6  1. Choose a different set of columns that have a unique index defined as the key columns for this Q subscription,
2. or, create a unique index or a unique constraint on the target table.
3. Then restart the corresponding Q subscription.
Set the value of IS_KEY to 1 for the affected source columns in the IBMQREP_SRC_COLS control table.

Redefine your Q subscription and remove the expression on either the key columns or the XML columns. Then restart the corresponding Q subscription.

If the problem persists, contact IBM Software Support. Provide an Analyzer report.

**ASN7506E**  
program_name : program_identifier : The target target_name for Q subscription name (receive queue queue_name, replication queue map queue_map_name) does not exist. The Q subscription is not loaded and changes cannot be replicated to this target.

Explanation: The target for the Q subscription as defined in the IBMQREP_TARGETS table does not exist. Either the target was specified incorrectly or it does not exist.

User response: Make sure that the target exists in the target database. Verify that the values are correct for this target in the TARGET_OWNER, TARGET_NAME columns in the IBMQREP_TARGETS table. Also, make sure that the value in the TARGET_TYPE column is appropriate for the target. For example, if the target is a stored procedure make sure that the target type in the IBMQREP_TARGETS table is '5'. If the Q subscription is not valid, redefine it using one of the replication administration tools.

**ASN7510E**  
program_name : program_identifier : The Q Apply program received an ADD COLUMN message for Q subscription name (receive queue queue_name, replication queue map queue_map_name), but the Q subscription is inactive.

Explanation: The Q subscription must be active before you can add a new column to it.

User response: Start the Q subscription.

**ASN7512E**  
program_name : program_identifier : The Q Apply program could not activate the Q subscription name (receive queue queue_name, replication queue map queue_map_name). Reason code: reason_code.

Explanation: The Q subscription definition is incorrect. The error may have occurred because the Q subscription was updated with SQL other than that generated by the Replication Center or ASNCLP program, or the SQL generated by these administrative tools was modified. The following values are valid for the reason code:

- 0: The Q subscription does not exist in the IBMQREP_TARGETS control table.
- 1: The value of the STATE column in the IBMQREP_TARGETS control table is not I.
- 2: The type of Q subscription on the Q Capture and Q Apply servers is different.
- 3: The DESCRIBE statement failed for the target.
- 4: The value in the TARGET_COLNAME column in the IBMQREP_TRG_COLS table does not match any of the target columns in the target.
- 5: A value in the TARGET_COLNAME, MSG_COL_TYPE, or MSG_COL_LENGTH columns in the IBMQREP_TRG_COLS table does not match the name, type, or length of the corresponding column in the target table or stored procedure.
- 6: The SOURCE_COLNAME column in the IBMQREP_TRG_COLS table does not match the value of the SRC_COLNAME in the IBMQREP_SRC_COLS table.
- 7: The Q subscription ID is not unique for the receive queue.
- 8: The Q subscription is defined as bidirectional and, according to the conflict rules, the Q Capture sending options are incorrect. The CONFLICT_RULE column in the IBMQREP_TARGETS table is set to A or C and the sending option BEFORE_VALUES column in the IBMQREP_SUBS table is not set to Y.
- 9: The values of the SOURCE_OWNER, SOURCE_NAME columns in the IBMQREP_TARGETS table do not match the values in the IBMQREP_SUBS table. Also the value of the SOURCE_SERVER column in the IBMQREP_TARGETS table is not the server on which the Q Capture program is running.

- 10:
The value of the IS_KEY column in the IBMQREP_TRG_COLS table does not match the value of the IS_KEY column in the IBMQREP_SRC_COLS table.

The code page of the source column cannot be converted to the Q Apply program code page.

The CONFLICT_ACTION column in the IBMQREP_TARGETS table is set to F, but the Q Capture sending options are incorrect. For the CONFLICT_ACTION F, the message needs to include all the columns not just the changed columns. The CHANGED_COLS_ONLY should be set to N in the IBMQREP_SUBS table.

The CONFLICT_RULE in the IBMQREP_TARGETS is set to K, but the Q Capture sending options are incorrect. The BEFORE_VALUES column should be set to N in the IBMQREP_SUBS table.

The Q Capture sending options specifies CHANGED_COLS_ONLY=N in the IBMQREP_SUBS table, but the value should be Y because of one or both of the following settings in the IBMQREP_TARGETS table:

- CONFLICT_ACTION is not F
- CONFLICT_RULE is not A

There are extra columns in the target that do not exist in the IBMQREP_TRG_COLS table and they are NOT NULL and are not defined with default.

The value of the SEARCH_CONDITION column in the IBMQREP_SUBS table is not specified correctly.

The values of the SOURCE_NODE and TARGET_NODE columns in the IBMQREP_SUBS and the IBMQREP_TARGETS table do not match.

The stored procedure parameters which represent the columns do not match the SRC_COLNAME fields of the IBMQREP_SRC_COLS table.

The Q subscription is type 'U' (unidirectional), but the CONFLICT_RULE column in the IBMQREP_TARGETS table is not set to K.

The target type for this Q subscription is a CCD table. CCD tables must have the following four columns:

- IBMSNAP_INTENTSEQ
- IBMSNAP_OPERATION
- IBMSNAP_COMMITSEQ
- IBMSNAP_LOGMARKER

The target type for this Q subscription is a CCD table and the subscription type is either for bidirectional or peer-to-peer replication. CCD tables are only supported in unidirectional replication. This error should not occur unless one of the following is true:

- The Q subscription has been updated with SQL other than that generated by the Replication Center or ASNCLP command-line program.
- The SQL script generated by the Replication Center or ASNCLP was modified before it was run.

The target is a noncondensed CCD table. The only valid value for CONFLICT_ACTION in the IBMQREP_TARGETS table is F (force). Because all incoming changes are always inserted, the only valid Q Capture sending options in the IBMQREP_SUBS table are BEFORE_VALUES = Y and CHANGED_COLS_ONLY = N.

The target type for the Q subscription is a condensed and complete CCD table. The value for CONFLICT_ACTION in the IBMQREP_TARGETS table must be F (force) or I (ignore). For F (force) the only valid Q Capture sending options in the IBMQREP_SUBS table are BEFORE_VALUES = Y and CHANGED_COLS_ONLY = N. For I (ignore) the only valid Q Capture sending options are BEFORE_VALUES = N and CHANGED_COLS_ONLY = Y.

The target is a condensed and noncomplete CCD table. The CONFLICT_ACTION in the IBMQREP_TARGETS table is F (force). The only valid Q Capture sending options in the IBMQREP_SUBS table are BEFORE_VALUES = Y and CHANGED_COLS_ONLY = N.
The target is a CCD table. The value in one or both of the columns CCD_CONDENSED and CCD_COMPLETE in the IBMQREP_TARGETS table are null.

The target type for this Q subscription is a noncomplete CCD table, but the HAS_LOADPHASE column in the IBMQREP_SUBS table has a value other than N.

The target is a CCD table. The Q Apply program read a message from the Q Capture program that has a version lower than Version 9 (for example, Version 8.2). The Q Apply program can process such down-level messages, but Version 9 function such as CCD targets cannot be supported in this configuration.

The target column information in IBMQREP_TRG_COLS table is not set up correctly.

The target type for this Q subscription is a stored procedure and the Q subscription is for replication from or to a database with the DB2 pureScale Feature. Stored procedure targets are only supported in unidirectional replication and are not supported with the DB2 pureScale Feature.

The target table is a system period temporal table or a bitemporal table on a DB2 whose version is older than V10.1 Fix Pack 2 on Linux, UNIX, and Windows or APAR PM31315 on z/OS. The Q Apply program does not support replication to temporal tables before these versions.

**User response:** Review the reason codes in the explanation, and take the appropriate action:

0

Verify the definition of the Q subscription, the SUBNAME column in the IBMQREP_SUBS table and the IBMQREP_TARGETS table. Redefine the Q subscription using the replication administration tools and activate the Q subscription.

1

Deactivate the Q subscription by setting the value of the STATE column of the IBMQREP_TARGETS control table to I. On the Q Capture server, deactivate and activate the Q subscription.

2

Check that the value of the SUBTYPE column in the IBMQREP_SUBS table matches the value of the SUBTYPE column in the IBMQREP_TARGETS tables. Redefine the Q subscription by using one of the replication administration tools.

3

Refer to the Q Apply diagnostic log file or the IBMQREP_TRACE table for the message ASN0552E, which contains the SQL return code information.

4

Verify that the Q subscription is set up correctly. Do a describe on the target table and the values stored in the IBMQREP_TRG_COLS table for the target table to identify differences. Redefine the Q subscription using one of the replication administration tools.

5

Verify that the Q subscription is set up correctly. Do a describe on the target table or stored procedure and check the values stored in the IBMQREP_TRG_COLS table to identify differences. Redefine the Q subscription using one of the replication administration tools.

6

Redefine the Q subscription using one of the replication administration tools.

7

Redefine the Q subscription using one of the replication administration tools.

8

Redefine the Q subscription using one of the replication administration tools.

9

Redefine the Q subscription using one of the replication administration tool. If the problem persists, contact IBM Software Support. Provide an Analyzer report.

10

Redefine the Q subscription using one of the replication administration tool. If the problem persists, contact IBM Software Support. Provide an Analyzer report.

11

Redefine the Q subscription using one of the replication administration tool. If the problem persists, contact IBM Software Support. Provide an Analyzer report.
Refer to the Q Apply diagnostic log file for the message ASN0568E, which specifies the CCSID that was not converted. Recommendation: Change the Q Apply code page to be the same as the source database code page.

Redefine Q subscription using one of the replication administration tools. If the problem persists, contact IBM Software Support. Provide an Analyzer report.

Redefine Q subscription using one of the replication administration tools. If the problem persists, contact IBM Software Support. Provide an Analyzer report.

Redefine Q subscription using one of the replication administration tools. If the problem persists, contact IBM Software Support. Provide an Analyzer report.

Modify the target attributes or subscribe to those extra columns.

Check the text in the SEARCH_CONDITION column of the IBMQREP_SUBS table and ensure that only the column names of the table being replicated are enclosed in square brackets. Redefine the Q subscription using one of the replication administration tools.

Redefine the Q subscription using one of the replication administration tools. If the problem persists, contact IBM Software Support. Provide an Analyzer report.

Redefine the Q subscription using one of the replication administration tools. If the problem persists, contact IBM Software Support. Provide an Analyzer report.

Redefine the Q subscription using one of the replication administration tools. If the problem persists, contact IBM Software Support. Provide an Analyzer report.

Use the Replication Center or ASNCLP program to add the four mandatory columns to the CCD table, and then activate the Q subscription.

Do one of the following things:
- Correct any SQL that was generated by the Replication Center or ASNCLP program and then modified.
- Drop the Q subscription and recreate it by using one of the administration tools.

Change the CONFLICT_ACTION column in the IBMQREP_TARGETS table and the BEFORE_VALUES and CHANGED_COLS_ONLY columns in the IBMQREP_SUBS table to the values that are specified in the explanation.

Change the CONFLICT_ACTION column in the IBMQREP_TARGETS table and the BEFORE_VALUES and CHANGED_COLS_ONLY columns in the IBMQREP_SUBS table to the values that are specified in the explanation.

Change the CONFLICT_ACTION column in the IBMQREP_TARGETS table and the BEFORE_VALUES and CHANGED_COLS_ONLY columns in the IBMQREP_SUBS table to the values that are specified in the explanation.

In the IBMQREP_TARGETS table, set the CCD_CONDENSED column to Y for condensed CCDs or N for noncondensed CCDs; set the CCD_COMPLETE column to Y for complete CCDs or N for noncomplete CCDs.

If the target table needs to be loaded, the CCD table must be complete. If you need a noncomplete CCD table, the value for HAS_LOADPHASE must be N.

Upgrade the Q Capture program at the source system to Version 9 and then start the Q subscription.

Look in the Q Apply diagnostic log file or IBMQREP_APPLYTRACE table for messages that might indicate the problem with the column definition. Redefine the Q subscription using one of the replication administration tools, and then start the Q subscription.
Use a source database, target database, or both that does not have the DB2 pureScale Feature.

Upgrade DB2 on the target database to V10.1 Fix Pack 2 on Linux, UNIX, and Windows or APAR PM31315 on z/OS.

ASN7513W  program_name : program_identifier : A row change for SUB_ID subid was received, but there is no active Q subscription (receive queue queue_name, replication queue map queue_map_name). The Q Apply program cannot apply the change. Reason code: reason_code.

Explanation: A row in the transaction does not belong to an active Q subscription due to one of the following reasons:

0 The Q subscription is inactive due to ERROR_ACTION or CONFLICT_ACTION but the Q Capture program did not stop sending changes yet. Refer to the IBMQREP_EXCEPTIONS table for the reason why the Q subscription was inactivated.

1 The Q Apply program never activated the Q subscription because the Q subscription setup is not valid.

2 The Q subscription does not exist in the IBMQREP_TARGETS table.

User response: Review the reason codes in the explanation, and take the appropriate action:

1. Check for a Q subscription that corresponds to the SUB_ID in the IBMQREP_SUBS and IBMQREP_TARGETS control tables.

2. If the Q subscription exists, look at the STATE_INFO column in the IBMQREP_TARGETS table to determine if the Q subscription was deactivated due to the CONFLICT_ACTION or ERROR_ACTION.

   a. If the Q subscription was deactivated, the Q Capture program will eventually stop sending changes for this Q subscription. No action is required on your part.

   b. If the Q subscription was not deactivated, then it was never activated to begin with. Refer to message ASN7512E in the Q Apply diagnostic log for the exact reason code and the required response.

ASN7514W  program_name : program_identifier : Administration queue queue_name is full. Q subscription: name (receive queue queue_name, replication queue map queue_map_name).

Explanation: The number of messages reached the number that is set for the MAXDEPTH attribute on the administration queue. The administration queue is full and the Q Apply browsers cannot write to it. Perhaps the Q Capture program is not reading from that administration queue.

User response: Ensure that the Q Capture program is running. If it is not, restart it.

If necessary, increase the value for the MAXDEPTH attribute of the administration queue.

ASN7515E  program_name : program_identifier : The Q Apply program cannot process message type message_type of version message_version.

Explanation: This message version is not supported by this version of the Q Apply program. The Q Capture program is not compatible with the Q Apply program version.

User response: Set the value of the COMPATIBILITY column in the IBMQREP_CAPPARMS table to match the version of the Q Apply program. The Q Apply version is recorded in the ARCH_LEVEL column of the IBMQREP_APPLYPARMS table. If Q Capture works with multiple Q Apply programs, set COMPATIBILITY to match the version of the oldest Q Apply program. You can use the Replication Center or Q Replication Dashboard to change the Q Capture COMPATIBILITY value.

ASN7516E  program_name : program_identifier : The SQL statement for operation operation on target table table_owner.table_name is too long.

Explanation: The combined size of the target table schema (owner name) and table name cannot exceed 256 bytes.

User response: Specify a target table for the Q subscription that is within the length limit.

ASN7517E  program_name : program_identifier : The load done received message for the Q subscription name (receive queue queue_name, replication queue map queue_map_name) cannot be processed. Reason code: reason_code.

Explanation: The Q Apply program received the load done receive message from Q Capture, but cannot process the message. The following values are valid for the reason code:

0 The Q subscription information that is loaded in memory is not correct.

1 The Q subscription state in the STATE column of the IBMQREP_TARGETS table is not correct.

2 There is no spill queue defined for this Q
subscription. Either the information in the SPILLQ column in the IBMQREP_TARGETS is wrong or the physical queue does not exist.

**User response:** Review the reason codes in the explanation, and take the appropriate action:

0  
Check if the Q subscription is in inactive (I) state in the STATE column in the IBMQREP_TARGETS table and refer to the Q Apply diagnostic log file for the reason. Fix the problem, and activate the Q subscription.

1  
The Q subscription value in STATE column in the IBMQREP_TARGETS table is not as expected. Deactivate and then activate the Q subscription.

2  
Deactivate and then activate the Q subscription.

---

**ASN7519E**  
*program_name : program_identifier* : The Q subscription name (receive queue queue_name, replication queue map queue_map_name) cannot be loaded because the value in the SUB_ID column is NULL.

**Explanation:** The SUB_ID can be NULL only if the Q subscription state is 'I' (Inactive). The Q subscription definition was altered.

**User response:** Deactivate the Q subscription, redefine it, and activate it.

---

**ASN7522E**  
*program_name : program_identifier* : The Q Apply program stopped because it encountered an error for Q subscription name (receive queue queue_name, replication queue map queue_map_name).

**Explanation:** The Q Apply program encountered an error or conflict while trying to apply a transaction for this target. The error or action for this Q subscription is 'S' (stop reading from the queue). Refer to the Q Apply diagnostic log file and the IBMQREP_EXCEPTIONS table for details as to why the error occurred.

**User response:** Address the problem that was identified in the diagnostic log file or the IBMQREP_EXCEPTIONS table and resume reading from the queue using the startq command. No changes will be lost. If the problem is only related to the target for this Q subscription, deactivate the Q subscription and resume reading from the queue. The Q Apply program will be able to apply changes to other targets.

---

**ASN7523E**  
*program_name : program_identifier* : The Q Apply program encountered an error or conflict for Q subscription name (receive queue queue_name, replication queue map queue_map_name). The Q Apply program will stop reading from the receive queue.

**Explanation:** The Q Apply program encountered an error or conflict while trying to apply a transaction for this target. The error or action for this Q subscription is 'Q' (stop reading from the queue). Refer to the Q Apply diagnostic log file and the IBMQREP_EXCEPTIONS table for details as to why the error occurred.

**User response:** Address the problem that was identified in the diagnostic log file or the IBMQREP_EXCEPTIONS table and resume reading from the queue using the startq command. No changes will be lost. If the problem is only related to the target for this Q subscription, deactivate the Q subscription and resume reading from the queue. The Q Apply program will be able to apply changes to other targets.

---

**ASN7524E**  
*program_name : program_identifier* : The Q Apply program encountered an error or conflict for Q subscription name (receive queue queue_name, replication queue map queue_map_name). It stopped reading from the receive queue. The error occurred while applying a row from the transaction corresponding to the LSN LSN.

**Explanation:** The Q Apply program encountered an error or conflict while trying to apply a transaction for this target. The error or action for this Q subscription is 'Q' (stop reading from the queue).

**User response:** Address the problem that was identified in the diagnostic log file or the IBMQREP_EXCEPTIONS table and resume reading from the queue using the startq command. No changes will be lost. If the problem is only related to the target for this Q subscription, deactivate the Q subscription and resume reading from the queue. The Q Apply program will be able to apply changes to other targets.

---

**ASN7525W**  
*program_name : program_identifier* : The receive queue queue_name (replication queue map queue_map_name) is not in active state and is not being processed by the Q Apply program. If the skiptrans parameter was specified, it is ignored because the queue is inactive.

**Explanation:** The receive queue is inactive. The STATE column in the IBMQREP_RECVQUEUES table is marked as I (inactive) for this receive queue. If the skiptrans parameter was specified on Q Apply program invocation, the parameter is ignored.
User response: This message is for your information only. No action is required. If you want the Q Apply program to process the queue, use one of the following methods:

- Issue the startq command without restarting Q Apply.
- Change the STATE column in the IBMQREP_RECVQUEUES table to A and restart Q Apply.

ASN7526I

User response: This message is for your information only. No action is required.

Explanation: The Q Apply program has started reading from the receive queue.

ASN7527I

User response: This message is for your information only. No action is required.

Explanation: The startq command was issued for the receive queue, and the Q Apply program has started the Q Apply browser for the queue.

ASN7528I

User response: This message is for your information only. No action is required.

Explanation: The loadphase for this Q subscription is specified as internal. Q Apply has chosen this utility to perform the load.

ASN7529I

Explanation: The load utility specified finished successfully. Look at the detail message from the utility for the statistics.

User response: This message is for your information only. No action is required.

ASN7530E

User response: Refer to the detailed message from the load utility for the return code and the SQL return code. Fix the problem and then activate the Q subscription. If the problem persists, select a different load utility.

Explanation: The load utility encountered an error for the Q subscription. The Q subscription cannot be activated.

ASN7531I

User response: Refer to the detailed message from the load utility for the return code and the SQL return code. Fix the problem and then activate the Q subscription. If the problem persists, select a different load utility.

Explanation: The Q subscription specifies that the Q Apply program will load the target table. Q Apply chose this load utility based on the replication environment. The following values are valid for the reason code:

0

The target is DB2 for Linux, UNIX, and Windows Version 8 or later and one of the following conditions is true:

- A nickname is defined for the source table or the source table is local to the target system, and the server option CONCURRENT_ACCESS_RESOLUTION=W is supported. In this case LOAD from CURSOR uses the nickname to load the target table.
- No nickname is defined for the source table and the source table has no XML columns. In this case, LOAD from CURSOR is performed by using a cataloged DB2 alias.

1

The target is DB2 for Linux, UNIX, and Windows Version 8 or later and the source does not have a nickname and the source is remote to the target.

2

The target is DB2 for z/OS Version 7 or later.

3

The target is DB2 for Linux, UNIX, and Windows Version 8 or later and either the source nickname is defined or the source is
local to the target, or the target is DB2 for z/OS Version 7 or later.

4

The target is DB2 for Linux, UNIX, and Windows Version 8 or later.

5

The target is DB2 for Linux, UNIX, and Windows Version 8 or later and one of the following conditions is true:

• The target is a nickname.
• The target is remote and the source table contains large object (LOB) columns that are part of a unidirectional Q subscription.

6

The target is Version 8 or later of DB2 for Linux, UNIX, and Windows and the source nickname is defined but does not use the server option CONCURRENT_ACCESS_RESOLUTION=W. This option is required to use LOAD from CURSOR to ensure that the utility waits until all in-progress transactions that modify the source table are completed before beginning the load. Q Apply selected the next best alternative utility for the load.

User response: This message is for your information only. No action is required.

ASN7532E  program_name : program_identifier : The Q Apply program could not select the utility_type load utility for the Q subscription name (receive queue queue_name, replication queue map queue_map_name). Reason code: reason_code.

Explanation: The following values are valid for the reason code:

0

The target is distributed but it is not DB2 for Linux, UNIX, or Windows Version 8 or later.

1

The target is not DB2 for z/OS Version 7 or later.

2

The target is DB2 for Linux, UNIX, or Windows Version 8 or later and one of the following conditions is true:

• A nickname is not defined for the source table and the source table is not local to the target database.
• The source table is remote from the target database and an XML column is part of the Q subscription.

3

The target is not distributed.

4

The load type is not valid.

5

The target is a nickname and the load type specified is not valid. For nicknames, the valid load type is EXPORT/IMPORT. However, importing into a nickname is not supported for federated targets when the Q Apply server uses the DB2 pureScale Feature.

6

The target is a remote database and the source table contains large object (LOB) or XML columns that are part of a Q subscription. The EXPORT/LOAD option does not support loading remote targets with LOB or XML data. The only valid load type is LOAD FROM CURSOR.

7

To specify an automatic load, you must use LOAD from CURSOR because the target is remote and the source table contains LOB columns that are part of a bidirectional or peer-to-peer Q subscription. On a remote target, LOB or XML data cannot be loaded using EXPORT/LOAD. For a bidirectional or peer-to-peer Q subscription the IMPORT utility is not a valid option because loaded data might be recaptured at the target. To use LOAD from CURSOR, the target must be DB2 for Linux, UNIX, or Windows Version 8 or later. If the source is remote from the target, you can use LOAD from CURSOR over a source nickname or a cataloged DB2 alias.

8

The Q subscription is bidirectional or peer-to-peer and the EXPORT/IMPORT method can cause rows to be recaptured at the target. Valid load types are LOAD FROM CURSOR or EXPORT/LOAD.

9

The target is Version 8 or later of DB2 for Linux, UNIX, and Windows and the source does not use the server option CONCURRENT_ACCESS_RESOLUTION=W. This option is required to use LOAD from CURSOR to ensure that the utility waits until all in-progress transactions that modify the source table are completed before beginning
the load. If you need to use this utility, you must update the federated server options by using the following command:

```
db2 alter server <name>
    options (add
        CONCURRENT_ACCESS_RESOLUTION 'W')
```

10

Moving data from XML to LOB columns (BLOB, CLOB, DBCLOB) is not supported by the DB2 load utilities (LOAD/IMPORT). No automatic load type could be chosen.

11

LOAD from CURSOR over a cataloged DB2 alias cannot be selected because the Q subscription includes XML columns.

User response: Refer to the detailed message from the utility for the return code and SQL return code. Select a different load type for this Q subscription. Activate the Q subscription. For reason code 10, you must specify a manual load or no load.

```
ASN7533E  program_name : program_identifier :
    Column column_name in the target table is not part of the Q subscription name
(receive queue queue_name, replication queue_map queue_map_name) and it is
not nullable or it has no default values.

Explanation: Any column in the target table that is not part of the Q subscription must be nullable or have a default value.

User response: Modify the attributes of the target or add the column to the Q subscription. Deactivate and then activate the Q subscription.
```

```
ASN7534E  program_name : program_identifier : The
    stored procedure is not valid for the following reason reason_code.

Explanation: A stored procedure that is used as a target must define four mandatory parameters plus parameters that can be mapped back to source columns.

The following example shows a valid stored procedure.

```
CREATE TABLE mySource (Parm1 INT NOT NULL,
    Parm2 VARCHAR(20) NOT NULL, Parm3 TIMESTAMP,
    Parm4 DATE, Parm5 CHAR(2),
    PRIMARY KEY(Parm1, Parm2));

CREATE statement for stored procedure:
CREATE PROCEDURE storedprocedure_name(
    IN Parm1 INT NOT NULL,
    IN XParm2 VARCHAR(20)
    NOT NULL IN Parm2 VARCHAR(20)
    NOT NULL,
    IN Parm3 TIMESTAMP,
    IN Parm4 DATE,
    IN Parm5 CHAR(2) )
```

1

The first parameter in the stored procedure must be OPERATION.

2

The second parameter in the stored procedure must be SUPPRESSION_IND.

3

The third parameter in the stored procedure must be SRC_COMMIT_LSN.

4

The fourth parameter in the stored procedure must be SRC_TRANS_TIME.

5

The INOUT attribute value of the OPERATION parameter is not equal to INOUT.

6

The INOUT attribute value of the SUPPRESSION_IND, SRC_COMMIT_LSN, or SRC_TRANS_TIME parameter is not equal to IN.

7

The first parameter must have the parameter mode INOUT. All other parameters must have parameter mode IN.

8

No parameters were found that map to the before values of key columns. Before values for key columns are required for key updates. Before values of key columns have the name of the source column prefixed by the letter X. For example, if the key parameter is named Col3, then the before value for that key parameter must be named XCol3.

9

A key column does not have a parameter in the stored procedure that maps to the key.
column's before value. Before values for key columns are required for key updates. Before values of key columns have the name of the source column prefixed by the letter X. For example, if the key parameter is named Col3, then the before value for that key parameter must be named XCol3.

One of the four mandatory parameters was not of the expected data type. Expected data types are:
1. **OPERATION**: INTEGER
2. **SUPPRESSION_IND**: VARCHAR(x)
3. **SRC_COMMIT_LSN**: CHAR(10) FOR BIT DATA. If the COMPATIBILITY column in the IBMQREP_CAPPARMS table is 1001 or higher, the data type must be VARCHAR(16) FOR BIT DATA.
4. **SRC_TRANS_TIME**: TIMESTAMP

**User response**: Modify the stored procedure by performing the action that corresponds to the reason code. Register the stored procedure again and restart the Q subscription.

Add the following mandatory parameters as the first parameters: **OPERATION, SUPPRESSION_IND, SRC_COMMIT_LSN, SRC_TRANS_TIME**. Next add one parameter that matches the data type for each primary key column and one identical parameter for the before image of updated key columns. Then add one parameter for each non-key column with data types that match each source column.

1. The first parameter in the stored procedure must be **OPERATION**.
2. The second parameter in the stored procedure must be **SUPPRESSION_IND**.
3. The third parameter in the stored procedure must be **SRC_COMMIT_LSN**.
4. The fourth parameter in the stored procedure must be **SRC_TRANS_TIME**.
5. Declare the **OPERATION** parameter to be INOUT.

Declare the parameters **SUPPRESSION_IND, SRC_COMMIT_LSN, and SRC_TRANS_TIME** to be IN parameters.

Ensure that the first parameter has the parameter mode INOUT and that all other parameters have parameter mode IN.

Ensure that the stored procedure has a parameter that maps to the before value for each key column. Add any missing parameters to handle before values for all key columns.

Ensure that the stored procedure has a parameter that maps to the before value for each key column. Add parameters to handle before values for all key columns.

Ensure that the four mandatory parameters have the following data types:
1. **OPERATION**: INTEGER
2. **SUPPRESSION_IND**: VARCHAR(x)
3. **SRC_COMMIT_LSN**: CHAR(10) FOR BIT DATA or VARCHAR(16) FOR BIT DATA
4. **SRC_TRANS_TIME**: TIMESTAMP

**Explanation**: The following values are valid for reason codes:

0. The Q subscription does not exist in the IBMQREP_TARGETS table.
1. The SUBTYPE value is set to 'P' (peer-to-peer), but either the CONFLICT_RULE value is not set to 'V' (check version) or the CONFLICT_ACTION value is not set to 'F' (force the change).
2. There is no Q subscription in the IBMQREP_SUBS table for some members of the Q subscription group.
3. The SUBGROUP column is NULL.
4. In the IBMQREP_TARGETS table, the SOURCE_NODE, the TARGET_NODE, or both, do not match the values in the IBMQREP_SUBS table.
5. The Q subscription definition in the
The IBMQREP_SUBS table does not match the Q subscription definition in the IBMQREP_TARGETS table for a particular SUBGROUP column.

6 The IBMQREP_SUBS table and the IBMQREP_TARGETS table have the same number of Q subscriptions, but the SUBGROUP values for those Q subscriptions do not match.

7 There is no Q subscription in the IBMQREP_TARGETS table for some members of the Q subscription group.

8 One or more of the following conditions exist:
   • The target table does not exist.
   • The version columns do not exist: "ibmqrepVERTIME", "ibmqrepVERNODE".
   • The version columns exist but they have the wrong data types or defaults.

9 In the IBMQREP_TARGETS table, the CONFLICT_RULE value 'V' (check version) is not allowed when SUBTYPE is 'B' (bidirectional). This conflict rule is valid only for SUBTYPE 'P' (peer-to-peer). For Q subscriptions in bidirectional replication, the valid conflict rule values are 'K', 'C', or 'A'.

10 There is more than one Q subscription defined in the IBMQREP_SUBS table for a given SUBGROUP and TARGET_NAME. In bidirectional replication (SUBTYPE='B'), there must be only one Q subscription in the IBMQREP_SUBS table and one in the IBMQREP_TARGETS table for a given SUBGROUP.

User response: Review the reason codes in the explanation, and take the appropriate action:
   • For reason code 8: Verify that the target table exists and has the proper columns. If it does not have the proper columns, use one of the replication administration tools to create the table with the proper columns or manually create the proper columns. If the target table does not exist, redefine the Q subscription to and from the node using one of the replication administration tools.
   • For all other reason codes: Redefine the Q subscriptions to and from this node using one of the replication administration tools.

Reason code: reason_code.

Explanation: The error was detected while trying to add a new node to the Q subscription group. The Q subscription going from the new node to an active member is not defined correctly in the IBMQREP_SUBS table. The following values are valid for the reason code:

0 The Q subscriptions in the Q subscription group do not have the same SUBTYPE value. All the Q subscriptions for the subscription group must have the same SUBTYPE value. The SUBTYPE value must be either 'P' (peer-to-peer) or 'B' (bidirectional).

1 The SOURCE_NODE in the IBMQREP_SUBS table is not the same as the TARGET_NODE in the IBMQREP_TARGETS table.

2 The GROUP_MEMBERS column is not NULL in the IBMQREP_SUBS table.

3 The STATE column must be 'I' (inactive) in the IBMQREP_SUBS table.

4 More than one of the Q subscriptions has the same value for the TARGET_NODE column in the IBMQREP_SUBS table.

User response: Redefine the Q subscriptions to and from this node using one of the replication administration tools.

Reason code: reason_code.

Explanation: The valid values for the reason code are:

0 The Q subscriptions do not have the same SUBTYPE. All of the Q subscriptions for the group must have the same SUBTYPE. The SUBTYPE must be either 'P' (peer-to-peer) or 'B' (bidirectional).

1 The TARGET_NODE in the IBMQREP_TARGETS table is not the node of the new member Q subscription.

2 The state for this Q subscription is not 'I' (inactive). The STATE column should be 'I' (inactive) in the IBMQREP_TARGETS table of a Q subscription that is a member.

4 More than one of the Q subscriptions in the SUBGROUP has the same value for the SOURCE_NODE in the IBMQREP_TARGETS table.

User response: Redefine the Q subscriptions to and from this node using one of the replication administration tools.
2. Repeat the previous step for all of the Q subscriptions that are at all other servers and are replicating changes to the first server.

At this server, insert a CAPSTOP signal for the Q subscriptions that are at all other servers and are replicating changes to the first server.

1. From this table, take the following steps:

To make sure that changes are not replicating to and from this table using one of the replication administration tools.

To make sure that changes are not replicating to and from this table, take the following steps:

1. At this server, insert a CAPSTOP signal for the Q subscriptions that are in the IBMQREP_SUBS table for this logical table. Do this step only for those Q subscriptions that are not already inactive (for example, they might be in the active state or loading state). Insert the signal for the Q subscriptions one at a time until all of the Q subscriptions are deactivated.

To make sure that changes are not replicating to and from this table, take the following steps:

To make sure that changes are not replicating to and from this table, take the following steps:

2. Repeat the previous step for all of the Q subscriptions that are at all other servers and are replicating changes to the first server.

2. Repeat the previous step for all of the Q subscriptions that are at all other servers and are replicating changes to the first server.

The Q subscription is specified with a loadphase, either internal or external. During the load, the referential constraints are dropped from the target table and saved in the IBMQREP_SAVERI table.

User response: This message is for your information only. No action is required.

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User response: If you want to change the memory limit from the current value, reissue the REINITQ command for the receive queue, specifying a new memory limit in MB.

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User response: If you want to change the memory limit from the current value, reissue the REINITQ command for the receive queue, specifying a new memory limit in MB.
change the number of apply agents for the receive queue, but the number of agents specified was the same as the existing number.

**User response:** If you want to change the number of agents for this receive queue, reissue a REINITQ command for the receive queue that specifies a new number of agents.

**Explanation:** REINITQ command was issued to change the number of agents; however, after the change there would be 0 agents left. Because of this fact, the REINITQ command was not processed.

**User response:** Verify that the correct number of agents was specified for this receive queue.

**Explanation:** REINITQ command was processed successfully. The number of agents decreased from \textit{number} to \textit{number} for receive queue \textit{queue_name}, replication queue map \textit{queue_map_name}.

**User response:** This message is for your information only. No action is required.

**Explanation:** To make it easier for Q Apply programs or subscribing applications to detect missing or out-of-sequence messages, Q Replication and event publishing programs use a dense numbering system. A dense numbering system is one where each message is assigned a positive integer with no gaps between numbers. The Q Capture program assigns a unique identifier to each message that it puts on the send queue. These identifiers are necessary because the Q Apply program processes messages in a strict order. When a message does not arrive in the receive queue in its expected order, the Q Apply program continues to look for the message. The Q Apply program will apply all changes that belong to messages that it already received.

**User response:** Look for the message with the expected message ID on all the dead letter queues of all

---

**ASN7545W**  
**program_name** : **program_identifier** : The REINITQ command for receive queue \textit{queue_name}, replication queue map \textit{queue_map_name} was not processed as it would reduce the number of agents to zero.

**Explanation:** The REINITQ command that was issued to increase the number of agents was processed successfully.

**User response:** This message is for your information only. No action is required.

**ASN7549I**  
**program_name** : **program_identifier** : The REINITQ command was processed successfully. The memory limit was set from \textit{memory_limit} MB to \textit{memory_limit} MB for the receive queue \textit{queue_name}, replication queue map \textit{queue_map_name}.

**Explanation:** The REINITQ command was issued successfully to increase the memory limit for this receive queue.

**User response:** This message is for your information only. No action is required.

**ASN7550E**  
**program_name** : **program_identifier** : The Q Apply program was expecting a message of type \textit{msgA} but found message type \textit{msgB} as the last message of the transaction (receive queue \textit{queue_name}, replication queue map \textit{queue_map_name}).

**Explanation:** An internal inconsistency was detected.

**User response:** Contact IBM Software Support. Provide an Analyzer report.

**ASN7551E**  
**program_name** : **program_identifier** : The Q Apply program detected a gap in message numbers on receive queue \textit{queue_name} (replication queue map \textit{queue_map_name}). It read message ID \textit{message_ID}, but expected to find message ID \textit{message_ID}. The Q Apply program cannot process any messages until it finds the expected message.

**Explanation:** To make it easier for Q Apply programs or subscribing applications to detect missing or out-of-sequence messages, Q Replication and event publishing programs use a dense numbering system. A dense numbering system is one where each message is assigned a positive integer with no gaps between numbers. The Q Capture program assigns a unique identifier to each message that it puts on the send queue. These identifiers are necessary because the Q Apply program processes messages in a strict order. When a message does not arrive in the receive queue in its expected order, the Q Apply program continues to look for the message. The Q Apply program will apply all changes that belong to messages that it already received.

**User response:** Look for the message with the expected message ID on all the dead letter queues of all
the WebSphere MQ queue managers that are used to transmit messages between the Q Capture and Q Apply programs. If you recover the message, put it on the receive queue, preserving the WebSphere MQ message header information (especially the message ID). If the message cannot be recovered, follow these steps:

1. Use the stopq command to stop the Q Apply program from reading from the receive queue.
2. Deactivate all of the Q subscriptions for this replication queue map.
3. Empty the send queue and the receive queue.
4. Use the startq command so that the Q Apply program resumes reading from the receive queue.
5. Activate all the Q subscriptions for this replication queue map.

---

**Explanation:**

The Q Apply program detected a gap in the message ID and cannot proceed until that message ID is found. This message will continue to be issued periodically until the message with the expected message ID is put on the send or receive queue.

**User response:** Look for the message with the expected message ID on all the Dead Letter Queues of all the WebSphere MQ queue managers that are used to transmit messages between the Q Capture and Q Apply programs. If you recover the message, put it on the receive queue, preserving the WebSphere MQ message header information (especially the message ID). If the message cannot be recovered, follow these steps:

1. Use the stopq command to stop the Q Apply program from reading from the receive queue.
2. Deactivate all the Q subscriptions for this replication queue map.
3. Empty the send queue and the receive queue.
4. Use the startq command so that the Q Apply program resumes reading from the receive queue.
5. Activate all the Q subscriptions for this replication queue map.

---

**Explanation:**

The Q Apply program stopped reading from the receive queue if it encounters a message that is older than the one it read. This error likely occurred for one of the following reasons:

- There are two Q Capture programs writing messages to the same receive queue. This setup is not supported. The Q Apply program is expecting messages from one Q Capture program on any given receive queue.
- The system clock where the Q Capture program runs was set back in time at the source, or wait until enough time passes so that the current time reaches the original time.

**User response:** If more than one Q Capture program is writing to the same receive queue, follow these steps:

1. Deactivate all the Q subscriptions that feed the receive queue.
2. Redefine the set up so that the messages from each Q Capture program go to separate receive queues.
3. Empty the send queue and the receive queue.
4. Use the startq command so that the Q Apply program starts reading from the receive queue again.
5. Activate all the Q subscriptions.

If the system clock was set back in time at the source, follow these steps:

1. Stop the Q Capture program.
2. Either reset the clock to the original time (or later), or wait until enough time passes so that the current time reaches the original time.
3. Deactivate all the Q subscriptions that feed the receive queue.
4. Empty the send queue and the receive queue.
5. Use the startq command so that the Q Apply program starts reading from the receive queue again.
6. Activate all the Q subscriptions.

---

**Explanation:** See message text.

**User response:** Determine why the dependent Q subscription is in the inactive state. If it has not been
activated, activate it. If it is in inactive state due to an error, fix the error by looking at the Q Apply diagnostic log file. After the dependent Q subscription is active, the Q Apply program will add the RI constraints that were saved in the IBMQREP_SAVERI table.

**ASN7555W**  
*program_name*: *program_identifier*: The RI constraint *constraint_name* could not be added for the target *table_name* for Q subscription *name* (receive queue *queue_name*, replication queue map *queue_map_name*) because it has an RI constraint with a table that is unknown to the Q Apply program.

**Explanation:** The Q Apply program encountered SQLCODE 667 when trying to add RI constraints for the Q subscription. The Q Apply program might not know about the dependent table because there is no Q subscription defined on it, or because a Q subscription is defined on it but a CAPSTART signal was never issued. After the dependent Q subscription is active, the Q Apply program will add the RI constraints that were saved in the IBMQREP_SAVERI table.

**User response:** Find the dependent table and define a Q subscription on it. If a Q subscription is defined, issue a CAPSTART signal on it.

**ASN7557W**  
*program_name*: *program_identifier*: The memory limit for receive queue *queue_name* for replication queue map *queue_map_name* is too low. It is *memory_limit* MB, but it should be equal to or greater than *memory_limit* MB.

**Explanation:** See message text.

**User response:** Increase the MEMORY_LIMIT value in the IBMQREP_RECVQUEUES table for the specified replication queue map.

**ASN7559W**  
*program_name*: *program_identifier*: The memory limit for receive queue *queue_name* for replication queue map *queue_map_name* is too high. It is *memory_limit* MB, but it should be less than *memory_limit* MB.

**Explanation:** See message text.

**User response:** Lower the MEMORY_LIMIT value in the IBMQREP_RECVQUEUES table for the specified replication queue map.

**ASN7583W**  
*program_name*: *program_identifier*: An error occurred while retrieving LOB data. The Q Apply program could not find a LOB message having LOBId *lobid*.

**Explanation:** See message text.

**User response:** Drain all messages from the queue and activate the Q subscription.

**ASN7584E**  
*program_name*: *program_identifier*: The Q subscription *name* (receive queue *queue_name*, replication queue map *queue_map_name*) is defined as type stored procedure. The stored procedure *proc_name* could not be found.

**Explanation:** The Q subscription cannot be activated as the stored procedure name as defined in the IBMQREP_TARGETS could not be found or the stored procedure is not registered.

**User response:** Check for the stored procedures schema and name in the TARGET_OWNER,TARGET_NAME column of the IBMQREP_TARGETS table. Register the stored procedure using the “CREATE PROCEDURE” statement.

**ASN7586E**  
*program_name*: *program_identifier*: The spill queue *queue_name* is full. Q subscription *name*. Replication queue map *queue_map_name*.

**Explanation:** The number of messages on the spill queue has reached the number set by the MAXDEPTH attribute for that spill queue. The spill queue is full and the Q Apply program cannot write to it. Perhaps the Q Apply program is still loading the target table, but the corresponding source table is being heavily updated.

**User response:** If possible, stop the Q Capture program. If necessary, increase the value for the MAXDEPTH attribute of the spill queue.
**ASN7587E**  
**program_name : program_identifier :** The memory limit for receive queue queue_name for replication queue map queue_map_name is too high memory_limit MB. It should be less than memory_limit MB.

**Explanation:** The memory limit for the receive queue is too high.

**User response:** Lower the MEMORY_LIMIT value in the IBMQREP_RECVQUEUES table for the specified replication queue map.

---

**ASN7588E**  
**program_name : program_identifier :** The startq command for receive queue queue_name, replication queue map queue_map_name cannot be completed.

**Reason code:** reason_code

**Explanation:** The following values are valid for the reason code:

0  The queue is already being processed.
1  There is no information about this queue in the IBMQREP_TARGETS table.
2  The program is still in the initialization phase.
3  The value in the MAXAGENTS_CORRELID column in the IBMQREP_RECVQUEUES table is incorrect.

**User response:** Review the reason codes in the explanation, and take the appropriate action:

0  No action required.
1  Check the IBMQREP_RECVQUEUES table for the information of the queue. Redefine the Q Subscription using one of the replication administration tool.
2  Reissue the command later.
3  Change the value of MAXAGENTS_CORRELID column in the IBMQREP_RECVQUEUES table and reissue the command. This value should be less than the NUM_APPLY_AGENTS value.

---

**ASN7589E**  
**program_name : program_identifier :** The receive queue queue_name for replication queue map queue_map_name cannot be found in table IBMQREP_RECVQUEUES.

**Explanation:** The Q Apply browser while trying to update this receive queue state, could not find an entry corresponding to the receive queue name, in the IBMQREP_RECVQUEUES table.

**User response:** Check the RECVQ column in the IBMQREP_RECVQUEUES table. Redefine the Q subscription using one of the replication administration tool, and activate the Q subscription again.

---

**ASN7590I**  
**program_name : program_identifier :** The Q Apply program stopped reading from the queue queue_name for replication queue map queue_map_name. Reason code: reason_code.

**Explanation:** The following values are valid for the reason code:

0  The Q Apply program is running with the AUTOSTOP parameter option and it encountered an empty receive queue.
1  The Q Apply browser received the STOPQ command.

**User response:** This message is for your information only. No action is required.

---

**ASN7591I**  
**program_name : program_identifier :** The Q Apply program started an apply agent agent_name for receive queue queue_name, replication queue map queue_map_name.

**Explanation:** The Q Apply agents started for this receive queue.

**User response:** This message is for your information only. No action is required.

---

**ASN7592E**  
**program_name : program_identifier :** The Q Apply program (Q subscription name, queue queue_name, replication queue map queue_map_name) encountered an error while converting a code page of the field field_name of the message message_type. The original value is field_value.

**Explanation:** A character field inside an internal message that was sent by the Q Capture program and processed by the Q Apply program cannot be converted to Q Apply program code page (the code page code is called CCSID). It is highly recommended that you run the source database, the Q Capture program, the Q Apply program, and the target database in the same code page to avoid unnecessary conversions. In this case the ICU library used to convert one code page to another is not able to convert the Q Capture program code page to the Q Apply program code page. For DB2, you can set the application code page with the command db2set DB2CODEPAGE=[CCSID].

**User response:** Issue the command to set the Q Apply program code page to the Q Capture program code page, or set it to a code page that can be converted by the ICU library.
**ASN7593E**  
**program_name** : **program_identifier** : An unsupported data type exists in column **column_name** for **Q subscription name**.  
**receive queue** **queue_name**, **replication queue map** **queue_map_name** and it cannot be replicated. The data type code is **data_type**.

**Explanation:** Some data types are not supported in Q Replication and Event Publishing and some data types can be used only under certain circumstances.

**User response:** Check the data type of the column, and ensure that DB2 supports the data type on the target. Also check the Q Replication documentation for information about data types that are not supported.

**ASN7594W**  
**program_name** : **program_identifier** : The Q Apply program removed a message from the **receive queue** **queue_name**, **replication queue map** **queue_map_name** because the message format was incorrect. Reason code: **reason_code**.

**Explanation:** The following values are valid for the reason code:

<table>
<thead>
<tr>
<th>Reason Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>The message that was sent by the Q Capture program is an XML message intended for event publishing. It is not supported by the Q Apply program.</td>
</tr>
<tr>
<td>1</td>
<td>The Q Apply program could not identify that the message is sent from the Q Capture program.</td>
</tr>
</tbody>
</table>

**User response:** Review the reason codes in the explanation, and take the appropriate action:

- **0** Change the message format to 'C' in the IBMQREP_SENDQUEUES table for the send queue for this replication queue map.
- **1** If a program other than the Q Capture program is putting messages on the specified queue, stop that program. The queue must be used exclusively by one Q Capture program. If no other program is using the queue, contact IBM Software Support. Provide an Analyzer report.

**ASN7595W**  
**program_name** : **program_identifier** : The Q Apply program received a Q subscription deactivate message, but the **SUB_ID** **SUB_ID** (receive queue **queue_name**, replication queue map **queue_map_name**) cannot be found or the Q subscription is in the inactive state.

**Explanation:** The Q Apply program is not replicating or loading the Q subscription corresponding to the incoming message.

**User response:** If the Q subscription is already inactive (state 'I' in the IBMQREP_TARGETS table) nothing needs to be done. If the Q subscription **SUB_ID** cannot be found in the IBMQREP_TARGETS table, the Q subscription is defined only for the Q Capture program. Define the Q subscription so that the target information is part of the Q subscription.

**ASN7597E**  
**program_name** : **program_identifier** : The Q subscription name (receive queue **queue_name**, replication queue map **queue_map_name**) is about to be disabled because of the conflict action or error action. Future row changes to the source table that is specified for this Q subscription will be skipped until the Q subscription is restarted.

**Explanation:** The Q Apply program encountered an error or conflict while applying a change from a transaction, and the Q subscription specifies a conflict action, error action, or both to deactivate the Q subscription when conflicts or errors occur. The row that caused the conflict or error is saved to the IBMQREP_EXCEPTIONS table. All further changes from the source table are ignored until the Q subscription is restarted, which will trigger a new load of the target table.

**User response:** Check the IBMQREP_EXCEPTIONS table for details about the conflict or error. Fix the problem, and then start the Q subscription again. If no row exists in the IBMQREP_EXCEPTIONS table, then either the row was deleted or the error occurred during the initial load process. During the load process, no further information is stored in the IBMQREP_EXCEPTIONS table. Instead, the information is stored in the Q Apply log file (either the present log file or a previous log file).

**ASN7598E**  
**program_name** : **program_identifier** : The transaction message for the Q subscription name (receive queue **queue_name**, replication queue map **queue_map_name**) does not contain before values of the column.

**Explanation:** The Q subscription probably specifies N in the BEFORE_VALUES column of the IBMQREP_SUBS table but the CONFLICT_RULE column in the IBMQREP_TARGETS table specifies C or A. Such a configuration is not valid. This configuration might have resulted if the IBMQREP_SUBS table was modified without first stopping the Q subscription.

**User response:** Ensure that the Q subscription is defined correctly by following these steps:

1. Stop the Q subscription.
2. Use the replication administration tools to correctly define the Q subscription. If the conflict rule for the Q subscription is C (check changed columns) or A
(check all columns), then the BEFORE_VALUES
column in the IBMQREP_SUBS table must be set to
Y.

3. Start the Q subscription

---

**ASN7605I**  
**program_name**: program_identifier : Q  
subscription name (receive queue queue_name, replication queue map queue_map_name) is active, but the RI constraints were not added back to the target target_name because there is a dependent Q subscription in loadphase.

**Explanation:** See message text.

**User response:** This message is for your information only. No action is required.

---

**ASN7606I**  
**program_name**: program_identifier : Q  
subscription name (receive queue queue_name, replication queue map queue_map_name) is active.

**Explanation:** See message text.

**User response:** This message is for your information only. No action is required.

---

**ASN7607I**  
**program_name**: program_identifier : Q  
subscription name (receive queue queue_name, replication queue map queue_map_name) finished loading the target. The changes will be applied from the spill queue queue_name.

**Explanation:** See message text.

**User response:** This message is for your information only. No action is required.

---

**ASN7608I**  
**program_name**: program_identifier : The program finished loading Q  
subscription name (receive queue queue_name, replication queue map queue_map_name), and notified the Q Capture program.

**Explanation:** See message text.

**User response:** This message is for your information only. No action is required.

---

**ASN7609W**  
**program_name**: program_identifier : Due to codepage differences between the source and target, the converted data for column name of Q subscription name for receive queue queue_name is longer than the target column length (converted data length is number_of_bytes, source data length is number_of_bytes).

**Explanation:** The source and target tables do not use the same codepage. While the Q Apply program was performing the codepage conversion, the data of one column expanded. Because the expanded data does not fit in the target column, a database error will occur, which will trigger the Q Apply error action for this Q subscription. The Q Apply error action will be logged in the Q Apply log file and the IBMQREP_APPLYTRACE table.

**User response:** Alter the target table column to increase the column's length. For example, if the column is declared as VARCHAR(10), you can extend it to be VARCHAR(30). Look in Q Apply log file or the IBMQREP_APPLYTRACE table for the message that will be issued after the Q Apply error action is triggered.

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**ASN7610E**  
**program_name**: program_identifier : The Q Apply program received a message to add a column to the Q subscription, but the SUB_ID subscription_identifier (receive queue queue_name, replication queue map queue_map_name) is not active.

**Explanation:** An AddCol signal was issued to the Q Capture program, which resulted in a message being sent to the Q Apply program. However, the Q subscription is not known by the Q Apply program either because the Q subscription was never started, it was stopped because of an error, or it was dropped.

**User response:** Look in the Q Apply log file or the IBMQREP_APPLYTRACE table for related messages. For example, if you see the message ASN7512E, then the Q subscription was never started, if you see the message ASN7597E, then the Q subscription was stopped. If the Q subscription exists, restart it. If the Q subscription does not exist, create and start it.

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**ASN7611I**  
**program_name**: program_identifier : Column column_name has been added to Q subscription name (receive queue queue_name, replication queue map queue_map_name) already exists in the target table schema_name.table_name.

**Explanation:** The Q Apply program tried to alter the target table to add a new column, but the new column already existed. The Q Apply program will add this column to the Q subscription and start replicating changes.

**User response:** This message is for your information. No action is required.

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**ASN7612I**  
**program_name**: program_identifier :  
Column column_name, has been added to Q subscription name (receive queue queue_name, replication queue map queue_map_name).

**Explanation:** The Q Apply program processed the
AddCol signal successfully. Changes for the newly added column are now being replicated to the target table.

User response: This message is for your information. No action is required.

Explanation: This message contains the codepage information for the replication queue map.

User response: Use this information to know which codepages (CCSID) are used by the Q Apply program and possibly to debug issues that are related to codepage conversion.

Explanation: The Q Apply program detected that the timestamp of a replicated row in a peer-to-peer configuration is ahead of the local time. To avoid inconsistencies the apply agent that is processing this change will not apply the change until the local time is equal to or more than the change’s own time.

User response: Adjust the time of the local clock. The local operating system and software packages offer commands to adjust the local time. The local time on the system that is running the Q Apply program should be moved ahead to match the time of the machine where the Q Capture program is running. It is not advisable to move a clock back in time.

Explanation: On DB2 for z/OS, any LOB column (BLOB, CLOB, DBCLOB) that is added to a Q subscription must be defined on the target table before you issue the ADDCOL signal. The column that was in the ADDCOL signal does not exist at the target.

User response: Create the LOB column on the target table and reissue the ADDCOL signal.

Explanation: An AddCol signal was issued to Q Capture program to add a LOB column (BLOB, CLOB, DBCLOB) to the Q subscription. The column was found, but its definition is not complete for one of the following reasons:

L An auxiliary table or auxiliary index has not been defined for a LOB column.

P The table lacks a primary index.

R The table lacks an index that is required on a row ID.

U The table lacks an index that is required on a unique key.

User response: Check the table status and complete the definition to add the LOB column to the target table by adding the corresponding index. Then reissue the AddCol signal.
**ASN7618I**  
**program_name**: program_identifier:  
Transaction LSN was rolled back (error message SQL0911) with reason code code. **Apply agent agent_id** was applying a operation for Q subscription name (receive queue queue_name, replication queue map queue_map_name). This transaction will be retried until the deadlock retry limit is reached.  

**Explanation:** This informational message (that corresponds to SQL0911) indicates that a transaction is retried because of a lock timeout or deadlock. Reason code:  

2  
Transaction got rolled back  
68  
Lock timeout  

The transaction log sequence number (LSN) can be used to identify whether the same transaction gets retried multiple times. A transaction is retried multiple times until the number in DEADLOCK_RETRIES from the IBMQREP_APPLYPARMS table is reached. If this limit is reached, the Q Apply program stops processing changes for this replication queue map.  

**User response:** For peer-to-peer replication only, run the runstats program on the target tables and the Q Apply internal tables: IBMQREP_DONEMSG, IBMQREP_SPILLEDROWS, IBMQREP_DELTOMB.  

In a peer-to-peer environment where many conflicts are expected, many deadlocks should be expected as well. It is also advised to increase the DEADLOCK_RETRIES limit to a value that is greater than the default. On z/OS, the target table and the Q Apply internal tables (IBMQREP_DONEMSG, IBMQREP_SPILLEDROWS, IBMQREP_DELTOMB) should use row level locking. The database or subsystem generates deadlock event files that you can use to find the exact participant of a deadlock.  

It is also possible to lower the number of apply agents for this replication queue map to have less concurrency and avoid chances of deadlocks.  

**ASN7619W**  
**program_name**: program_identifier: The Q Apply program approximated a floating point conversion. The IEEE floating point number from the source is value. The z/OS floating point number that was applied to the target table is value.  

**Explanation:** Changes are replicated between two float columns. The source is a non-z/OS server and the target is a z/OS server. A non-z/OS server uses the IEEE floating point number representation standard, while a z/OS server has its own format. Conversion is possible between the two formats. However, every value cannot be represented, and some values must be approximated. The replication configuration is not altered if this warning is issued, and the Q Apply error action will not be performed. Because of this approximation, the target table will not necessarily match the source table exactly.  

Float columns should be avoided for primary key columns when you are replicating between a z/OS and a non-z/OS server to avoid breaking the one-to-one mapping between the source and target rows if there is a chance that floating point values get approximated.  

**User response:** This message is for your information. No user response is required.  

**ASN7620W**  
**program_name**: program_identifier: The program could not gather monitoring information for one or more Q Apply agents or spill agents for a receive queue. Any data that the program did gather in this monitor interval was stored to be reported after the next monitor interval. Number of agents for which the program could not gather monitoring information: number. Receive queue name: queue_name.  

**Explanation:** The Q Apply program’s monitoring thread was not able to gather monitoring information for at least one Q Apply agent or spill agent. The monitoring data for the monitoring interval is not reliable, so reporting will be skipped for this monitoring interval. However, the data will be reported in the next monitoring interval, so it will not be lost. If a similar message continues to be reported, then the Q Apply agent or spill agent stopped or unexpected errors were detected in structures that are used in memory to collect performance statistics.  

**User response:** Respond to the message in one of the following ways:  
- If this message appears only once, no action is required.  
- If multiple monitoring cycles are skipped, perform the following troubleshooting steps:  
  1. Look for additional error messages that might identify the problem, and try to correct the problem.  
  2. If you cannot identify or correct the problem, stop and start the Q Apply program.  

Determine the best time to start and stop the Q Apply program so that you minimize the effect on data replication, which should be continuing because replication is not affected by this problem.
ASN7621E  program_name : program_identifier : Source column name does not map to target column name because of reason code code for Q subscription name (receive queue queue_name, replication queue map queue_map_name).

Explanation: While activating the Q subscription, the Q Apply program detected that the source column is not compatible with the target column. As a result, the Q subscription will not be started.

1  Data type mismatch between source and target.

2  Length mismatch between source and target. The target column must be equal to or longer than the source for character data types. If you are replicating from GRAPHIC to CHAR (or from VARGRAPHIC to VARCHAR), then the target column must be at least twice as long as the source column (because GRAPHIC and VARGRAPHIC data types are double byte).

3  Replicating from NULL to NOT NULL is not allowed.

4  Replicating from LONG VARCHAR to VARCHAR requires the VARCHAR column to have a length of the maximum size.

5  The Q subscription is in a bidirectional or peer-to-peer configuration and either the data type or column length does not match between source and target.

User response: Modify the target or source columns (or both) so that they are compatible. Recreate and restart the Q subscription.

ASN7622W  program_name : program_identifier : Source column name mapped to target column name is longer than the target. Some truncation might occur. Q subscription name (receive queue queue_name, replication queue map queue_map_name).

Explanation: The maximum length of a VARCHAR column is less than the length of a LONG VARCHAR column. Some incoming data might be truncated while it is replicated.

User response: If data truncation is not acceptable, create the target column as LONG VARCHAR. Then redefine and restart the Q subscription. If truncation is acceptable, no action is required.

ASN7623E  program_name : program_identifier : The Q Apply program cannot process the AddCol signal for Q subscription name (receive queue queue_name, replication queue map queue_map_name). The target is a nickname that does not support the alter statement, and the column that is being added name is not part of the nickname definition.

Explanation: An AddCol signal was issued to the Q Capture program for a Q subscription that has a nickname as the target. Because the Q Apply program cannot alter the nickname directly, the AddCol signal cannot be processed.

User response: Redefine the nickname to include the new column and reissue the AddCol signal.

ASN7624I  program_name : program_identifier : Found number secondary unique index(es) for Q subscription name (receive queue queue_name, replication queue map queue_map_name).

Explanation: The Q Apply program loads unique index information for all target tables so that it can correctly order transactions and apply them in parallel. This message specifies how many secondary unique indexes were found. The number does not include the unique index that is used to be the replication key.

User response: This message is for your information. No action is required.

ASN7625E  program_name : program_identifier : The target type for Q subscription name (receive queue queue_name, replication queue map queue_map_name) is a nickname but the Q Capture sending options are not set up correctly.

Explanation: When the target type of a Q subscription is a nickname and this nickname has more than one unique index, the Q Apply program requires the Q Capture program to send the before values of columns that have changed, and the values of columns that have not changed. These sending options allow Q Apply to apply transactions in the correct order without violating unique constraints on the target. These options are not required when the target type is a user table because DB2 provides the necessary index identifier that is used to order transactions. However, this identifying information is not always available from non-DB2 databases.

User response: At the source system change the BEFORE_VALUES attribute for this Q subscription to be Y and CHANGED_COLS_ONLY to be N in the IBMQREP_SUBS table.
**ASN7626E** program_name : program_identifier : The target table referenced by nickname owner.nickname should be empty before the IMPORT utility begins. The Q subscription Q.subscription_name (receive queue queue_name, replication queue map queue_map_name) will be deactivated.

**Explanation:** When you use the IMPORT utility to load data into federated targets, the target table should be empty. The IMPORT utility does not support the REPLACE option.

**User response:** Delete the contents of the target table and activate the Q subscription.

**ASN7627E** program_name : program_identifier : The Q Apply browser browser_name (receive queue queue_name, replication queue map queue_map_name) terminated with error code error_code.

**Explanation:** A previous error or condition caused the Q Apply browser to terminate. The reason code could be an SQLCODE, a WebSphere MQ reason code, or a replication diagnostic code.

**User response:** Check the Q Apply log file for any diagnostic or error messages prior to this message.

**ASN7628E** program_name : program_identifier : The Q Apply browser browser_name (receive queue queue_name, replication queue map queue_map_name) terminated because it had pending RI constraints that got a violation and there are no in-flight transactions to resolve the constraint violation.

**Explanation:** Q Apply browser tried to add the RI constraints to the tables after the table was loaded. However, the operation failed because of a constraint violation. Since there are no more transactions that can resolve this violation, the Q Apply browser stopped.

**User response:** Compare the source and target tables and fix the rows that cause the constraint violation.

**Tip:** You can use the asntdiff program to compare the source and target tables.

**ASN7629E** program_name : program_identifier : The spill queue name spill_queue_name for Q subscription Q.subscription_name on receive queue receive_queue_name using the model queue name model_queue_name exceeded the maximum of 48 characters for a spill queue name by number.

**Explanation:** The spill queue name is generated in Q Apply by concatenating the name of the model queue with the Q subscription information. The maximum length allowed is 48 characters.

**User response:** Update the MODELQ column in the IBMQREP_TARGETS table with a model queue name that is smaller in length, so the spill queue name will not exceed 48 characters.

**ASN7630I** Time period used to calculate average

**ASN7631I** All transactions applied as of (time)

**ASN7632I** All transactions applied as of (LSN)

**ASN7633I** Oldest in-progress transaction

**ASN7634I** Average end-to-end latency

**ASN7635I** Average Q Capture latency

**ASN7636I** Average WSMQ latency

**ASN7637I** Average Q Apply latency

**ASN7638I** Current memory

**ASN7639I** Current queue depth

**ASN7640I** Log reader currency

**ASN7641I** Q Apply program status

**ASN7642I** Receive queue

**ASN7643I** program_name : program_identifier : The target nickname_owner.nickname_name is a nickname for the Q subscription Q.subscription_name (receive queue queue_name, replication queue map queue_map_name).

**Explanation:** The target of the Q subscription is a nickname that refers to a table in the non-DB2 database.

**User response:** This message is for your information. No action is required.

**ASN7644W** program_name : program_identifier : Q Capture MQPUT timestamp occurs number milliseconds after Q Apply MQGET on receive queue queue_name. Possible clock skew between source and target servers.

**Explanation:** The clocks at the source and target server machines may not be synchronized.
User response: Adjust the clocks at the source or target server so that they match. This will avoid the clock skew.

Explanation: The Q Apply program tried to find the target table when activating the Q subscription, but the table does not exist in the target database.
User response: Redefine the Q subscription with the replication administration tools, and either specify a table that does exist or let the administration tools create a new target table. Then activate the Q subscription.

Explanation: The Q Apply program was unable to insert a row into the IBMQREP_EXCEPTIONS control table. It unsuccessfully tried to apply a row to the replication target. The information in this message identifies the row that the agent tried to apply.
User response: Use the SQLCODE, SQLERRMC, OPERATION, and REASON in the message to determine the problem that prevented the Q Apply program from applying the row at the target. Also, ensure that the IBMQREP_EXCEPTIONS table for this Q Apply schema exists and is available. For details see the DB2 DESCRIBE command in the IBM DB2 Information Center.

Explanation: The specified CCD column for the Q subscription has an unexpected data type, data length, or both.
User response: Alter the CCD table so that the specified column has the correct data type and data length.

Explanation: SQL expressions with constants (such as 'IBM') or derived constants (such as CURRENT_TIMESTAMP) or CCD audit columns (such as IBMSNAP_LOGMARKER) cannot have before-image columns defined at the target.
User response: Use the ASNCLP command-line program or Replication Center to change the Q subscription so that before-values are not specified for any ineligible expressions or columns, then start the Q subscription.

Explanation: A command was issued to specify that...
the Q Apply browser thread stop at the specified timestamp. The browser thread will stop after it processes all transactions with a source commit time that is less than or equal to the specified timestamp.

User response: This message is for your information only. No action is required.

ASN7651I  program_name : program_identifier : The Q Apply browser thread (receive queue queue_name, replication queue map queue_map_name) processed a source transaction with a commit timestamp that was greater than the user-specified stopping point timestamp. The browser thread will stop.

Explanation: The Q Apply program was started with the applyupto parameter, which specified that the browser thread stop at a specified timestamp. The browser thread detected a transaction with a source commit time that was greater than or equal to the timestamp, and so the browser thread will stop.

User response: This message is for your information only. No action is required.

ASN7652E  program_name : program_identifier : The Q Apply program found an invalid timestamp for the applyupto parameter when it started. The field field of the timestamp timestamp is not correct. The Q Apply program will stop.

Explanation: The timestamp that was provided for the applyupto parameter in the command to start the Q Apply program has an invalid format. The expected format is one of the following: YYYY-MM-DD-HH.MM.SS, YYYY-MM-DD-HH.MM.SS, YYYY-MM-DD-HH.MM, YYYY-MM-DD-HH, HH.MM, or HH.

User response: Restart the Q Apply program and specify a valid timestamp for the applyupto parameter.

ASN7653E  program_name : program_identifier : The command to start the Q Apply program contained both the autostop and applyupto parameters. The Q Apply program will stop.

Explanation: The applyupto parameter cannot be specified when the value of the autostop parameter is Y (yes). So you cannot specify both applyupto and autostop =Y when you start the Q Apply program. You also cannot specify applyupto when the saved value of autostop in the IBMQREP_APPLYPARMS table is Y.

User response: Restart the Q Apply program while specifying either the autostop parameter or the applyupto parameter. Update the value of autostop in the IBMQREP_APPLYPARMS table if necessary.

ASN7654E  program_name : program_identifier : The command to change the Q Apply operating parameters contained the autostop parameter when the applyupto parameter was already specified. The command was not processed.

Explanation: When you use the asnqacmd command to operate the Q Apply program, the autostop and applyupto parameters cannot be enabled at the same time.

User response: Reissue the asnqacmd command without specifying the autostop parameter.

ASN7655E  program_name : program_identifier : The value of the MAXAGENTS_CORRELID is greater than the value of NUM_APPLY_AGENTS in the IBMQREP_RECVQUEUES table for receive queue recv_queue_name and replication queue map repl_qmap_name. The Q Apply program will stop the browser thread for this receive queue.

Explanation: The MAXAGENTS_CORRELID value cannot be greater than the NUM_APPLY_AGENTS value.

User response: Set the MAXAGENTS_CORRELID value lower than the NUM_APPLY_AGENTS value in the IBMQREP_RECVQUEUES table.

ASN7656E  program_name : program_identifier : The MAXAGENTS_CORRELID value is equal to the NUM_APPLY_AGENTS value in the IBMQREP_RECVQUEUES table for receive queue recv_queue_name and replication queue map repl_qmap_name. The browser thread (replication queue map repl_qmap_name) will not limit parallelism based on the correlation ID.

Explanation: Because the MAXAGENTS_CORRELID value is the same as the NUM_APPLY_AGENTS value, the Q Apply browser will not serialize transactions based on the correlation ID.

User response: If lock contention is a problem, you can serialize transactions by setting the MAXAGENTS_CORRELID value smaller than the NUM_APPLY_AGENTS value. If you set the MAXAGENTS_CORRELID value to zero, you will not receive this warning and the browser will continue applying transactions in parallel.
The spilsub command is not supported for target tables that have referential integrity relationships. To stop applying replicated transactions to target tables with referential integrity relationships, you must stop the entire receive queue by using the stopq command.

Check the log file for the Q Apply program for previous diagnostic or error messages to determine the cause of the failure.

The spilsub command can only be issued to subscriptions in A (active) state. The Q subscription was in a state other than active.

The target table for the specified Q subscription has a referential integrity relationship with another table.

The temporary spill queue could not be created.

User response: Perform the action that corresponds to the reason code:

0
Reissue the command after the program has finished initializing.

1
Check that the name of the receive queue is correct and reissue the command.

2
Check that the name of the Q subscription is correct and reissue the command.

3
If the state of the Q subscription is I or T, an error might have occurred with the Q subscription before the spilsub command was issued. Check the previous messages from the Q Apply program to determine the cause of the error. For other states, you must wait for the Q subscription to become active.

4

Note: If the DFTMODELQ parameter was used when Q Apply was started, Q Apply uses the model queue that is specified with this parameter.

After the problem is corrected, use the startq command to restart the receive queue.

The spilsub command is not supported for target tables that have referential integrity relationships. To stop applying replicated transactions to target tables with referential integrity relationships, you must stop the entire receive queue by using the stopq command.

Check the log file for the Q Apply program for previous diagnostic or error messages to determine the cause of the failure.

The spilsub command can only be issued to subscriptions in A (active) state. The Q subscription was in a state other than active.

The target table for the specified Q subscription has a referential integrity relationship with another table.

The temporary spill queue could not be created.

User response: Perform the action that corresponds to the reason code:

0
Reissue the command after the program has finished initializing.

1
Check that the name of the receive queue is correct and reissue the command.

2
Check that the name of the Q subscription is correct and reissue the command.

3
If the state of the Q subscription is I or T, an error might have occurred with the Q subscription before the spilsub command was issued. Check the previous messages from the Q Apply program to determine the cause of the error. For other states, you must wait for the Q subscription to become active.

4

Note: If the DFTMODELQ parameter was used when Q Apply was started, Q Apply uses the model queue that is specified with this parameter.

After the problem is corrected, use the startq command to restart the receive queue.
The Q subscription that was placed in spill mode will be returned to normal processing as directed by resumesub command. Spilled messages will be applied. New messages will continue to be spilled and referential integrity constraints are still dropped on the target table. When the spill queue is empty, the constraints will be added back and the Q subscription will be placed in active (A) state.

User response: This message is for your information only. No action is required.

The MAXAGENTS_CORRELID parameter specifies the maximum number of agent threads that can process transactions with the same z/OS correlation ID or job name. This parameter allows you to reduce lock contention by limiting parallelism for transactions from the same batch job on a z/OS Q Capture server. Reducing lock contention can lower latency.

By using this setting, the Q Apply program will limit parallelism during batch workloads to prevent lock contention.

User response: This message is for your information only. No action is required.

The following values are valid for the reason code:

0  The program is in the initialization phase.
1  The specified receive queue was not found.
2  The specified Q subscription was not found.
3  The loaddonesub command can only be issued for Q subscriptions in the E state.
The loadonesub command should be issued only for the peer-to-peer Q subscription that was used for the CAPSTART signal. This subscription is the same subscription that has the source table that was used as the load source for the manual load.

**User response:** Perform the action that corresponds to the reason code:

- **0**
  Reissue the command after the program has finished initializing.

- **1**
  Check that the name of the receive queue is correct and reissue the command.

- **2**
  Check that the name of the Q subscription is correct and reissue the command.

- **3**
  If the state of the Q subscription is I or T, an error might have occurred with the Q subscription before the loadonesub command was issued. Check the previous messages from the Q Apply program to determine the cause of the error. For all other states, verify that you specified the correct Q subscription and verify that the state of the Q subscription is ‘E.’ Reissue the command for the correct Q subscription.

- **4**
  Check that you specified the correct peer-to-peer Q subscription for the loadonesub command. Use the Q subscription that specifies the source table that you used to perform the initial load. Reissue the command for the correct Q subscription.

---

**ASN7664W program_name : program_identifier** The value of the MAXAGENTS_CORRELID column is greater than the value of the NUM_APPLY_AGENTS column in the IBMQREP_RECVQUEUES table. The browser thread (receive queue `recv_queue_name` and replication queue `map repl_qmap_name`) will use the previous value for the MAXAGENTS_CORRELID.

**Explanation:** The MAXAGENTS_CORRELID value cannot be greater than the NUM_APPLY_AGENTS value.

**User response:** Set the MAXAGENTS_CORRELID value lower than the NUM_APPLY_AGENTS value in the IBMQREP_RECVQUEUES table.

---

**ASN7666E program_name : program_identifier** The Q Apply program (receive queue `receive_queue_name`, replication queue `map queue_map_name`) cannot apply segmented large object (LOB) data to an XML column in the target table for Q subscription `Q_subscription_name`.

**Explanation:** The Q Apply program encountered an error while applying a row that contained LOB data to a target table with an XML column. If the error occurred during spill queue processing, the Q subscription is deactivated. Otherwise the browser thread terminates.

**User response:** To replicate LOB data to an XML column at the target, the LOB data must be sent within the transaction message, also known as inline, rather than in segments. Follow one of these procedures:

- **If the Q subscription was deactivated**
  1. Stop the Q Capture program.
  2. Update the LOB_SEND_OPTION column in the IBMQREP_CAPPARMS table with a value of I.
  3. Start the Q Capture program in warm mode.
  4. Use the replication administration tools to activate the Q subscription.

- **If the browser thread stopped**
  1. Change the value of the STATE column for the Q subscription to I in the IBMQREP_TARGETS table.
  2. Use the asnqacmd startq command to start the browser for the receive queue.
  3. Wait until the STATE column in the IBMQREP_SUBS table changes to a value of I.
  4. Stop the Q Capture program.
  5. Update the LOB_SEND_OPTION column in the IBMQREP_CAPPARMS table with a value of I.
  6. Start the Q Capture program in warm mode.
  7. Use the replication administration tools to activate the Q subscription.

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**ASN7666E program_name : program_identifier** The INSERT_BIDI_SIGNAL parameter was set to N, but the IBMQREP_IGNTRAN table does not have a valid entry for Q Apply's authorization ID `auth_ID` or plan name `plan_name`. The Q Apply program stopped. Specify a valid entry in the IBMQREP_IGNTRAN table or set INSERT_BIDI_SIGNAL to Y.

**Explanation:** You can use one of two methods to
prevent recapture of transactions in a bidirectional replication environment:

- Accept the default behavior in which the Q Capture and Q Apply programs use signal inserts (insert_bidi_signal=Y).
- Use the Q Capture program's ability to ignore specified transactions (insert_bidi_signal=N and an entry to the IBMQREP_IGNTRAN table with Q Apply's authorization ID or plan name).

**User response:** If you want to use the ignore transaction method, insert a valid identifier for the Q Apply program into the AUTHID or PLANNAME column of the IBMQREP_IGNTRAN table at the server that is shared by the Q Apply program and Q Capture program in the bidirectional configuration. Then restart the Q Apply program.

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**ASN7667E**

*program_name : program_identifier : The INSERT_BIDI_SIGNAL parameter was set to N, but the IBMQREP_IGNTRAN table does not exist. The Q Apply program stopped. Create the IBMQREP_IGNTRAN table and specify Q Apply's authorization ID or plan name (z/OS). Alternatively, set INSERT_BIDI_SIGNAL to Y.*

**Explanation:** You can use one of two methods to prevent recapture of transactions in a bidirectional replication environment:

- Accept the default behavior in which the Q Capture and Q Apply programs use signal inserts (insert_bidi_signal=Y).
- Use the Q Capture program's ability to ignore specified transactions (insert_bidi_signal=N and an entry to the IBMQREP_IGNTRAN table with Q Apply's authorization ID or plan name).

**User response:** If you want to use the ignore transaction method, take these actions:

1. Upgrade the Q Capture control tables to Version 9.1 Fix Pack 2 or newer to add the IBMQREP_IGNTRAN table.
2. Insert a valid identifier for the Q Apply program into the AUTHID or PLANNAME column of the IBMQREP_IGNTRAN table at the server that is shared by the Q Apply program and Q Capture program in the bidirectional configuration.
3. Restart the Q Apply program.

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**ASN7668E**

*program_name : program_identifier : The unique index *index_name* on the target table *table_owner.table_name* for the Q subscription *Q_subscriptio_name* (receive queue *queue_name*, replication queue map *queue_map_name*) has more key columns than the maximum number of limit key columns.*

**Explanation:** The Q Apply program detected that the number of key columns for the unique index exceeds the maximum number that DB2 allows. The limit differs by platform and version. For more information, see the DB2 Information Center.

**User response:** Drop and recreate the unique index so that it is within the maximum number of key columns.

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**ASN7669W**

*program_name : program_identifier : The Q Apply browser thread on receive queue *queue_name* (replication queue map *queue_map_name*) will ignore the value of MAXAGENTS_CORRELID in the IBMQREP_RECVQUEUES table and not limit parallelism based on correlation ID. The reason code is *reason_code.*

**Explanation:** The Q Apply program uses the MAXAGENT_CORRELID setting for the receive queue only if the Q Capture server is on z/OS and at Version 9.1 with the PTF for APAR PK49430 or later. The following reason codes apply:

0

- The Q Capture program is an older version that does not support sending correlation ID information.

1

- The Q Capture server is not on z/OS. Correlation ID information is not valid for non-z/OS sources.

**User response:** Upgrade the Q Capture server, or if the Q Capture server is on Linux, UNIX, or Windows, set the MAXAGENT_CORRELID column in the IBMQREP_RECVQUEUES table to NULL for this receive queue.

---

**ASN7670I**

*program_name : program_identifier : Transaction *transaction_ID* was skipped successfully from receive queue *queue_name* (replication queue map *queue_map_name*).

**Explanation:** The transaction ID that was specified with the skiptrans parameter on program invocation or with the startq command was successfully skipped from the receive queue.

**User response:** This message is for your information only. No action is required.

---

**ASN7671I**

*program_name : program_identifier : Transaction IDs in the range *beginning_ID* to *ending_ID* were successfully skipped from receive queue *queue_name* (replication queue map *queue_map_name*). Number of transactions skipped: *number.*
Explanation: The transaction IDs in the range that was specified in the skiptrans parameter on program invocation or with the startq command were read from the receive queue but not applied. The messages were deleted from the receive queue.

User response: This message is for your information only. No action is required.

**ASN7673E**

**program_name**: program_identifier:

Transaction transaction_id could not be skipped from receive queue queue_name (replication queue map queue_map_name).

Reason code: reason_code. The program stops reading from the queue.

Explanation: The transaction ID that was specified with the skiptrans parameter on program invocation or with the startq command has an invalid format or was not found on the receive queue. The following values are valid for the reason code:

0

The transaction ID to skip was not found on the receive queue.

1

The transaction ID to skip has an invalid format

User response: Review the reason codes in the explanation, and take the appropriate action:

0

Use the asnqfmt tool or asnxmlfmt tool on z/OS to check if the transaction ID exists on the receive queue. If it exists and you want to skip it, start the program again while specifying this transaction ID with the skiptrans parameter.

1

The following characters can be used to specify a transaction ID with the skiptrans parameter:

- Uppercase A-F
- Lowercase a-f
- Numerics 0-9
- Special characters: "," and ":" only

For example, the following transaction IDs are allowed:

0000:0000:0000:51a1:0000
0000000000051a10000
0000:0000:0000:0000:51a1-
0000:0000:0000:0000:51a8

Note:

- Leading zeros cannot be omitted in a transaction ID. The transaction ID can be specified with or without colons. For example, 0000:0000:0000:51a1:0001 is treated the same as 0000000000051a10001.
- The length of each unit between colons in the input transaction ID should be equal to 4. For example, 0000:1090:1234:5671:001 is not allowed because the length of the last unit is less than 4.
- Wild card characters such as (*) are not allowed. For example, a range clause such as "* -1123:0000:01fa:bcb2:0001" is not allowed.
- No spaces are allowed between the delimiters (semi-colon, hyphen, comma) that are used in the syntax for skiptrans parameter.
- The range of transaction IDs to skip includes beginning and ending transaction IDs.

**ASN7674E**

**program_name**: program_identifier:
The Q Apply program encountered an invalid Q subscription state while processing a schema message for Q subscription Q_subscription_name (receive queue queue_name, replication queue map queue_map_name). Q Apply expected the state to be W but found a state of state. The Q subscription was not activated.

Explanation: The Q Apply program received a schema message for the Q subscription that indicates that the target table was loaded. The Q subscription state in the IBMQREP_TARGETS table should be W but is a different value.

User response: Review the setup and restart the Q subscription.

**ASN7675I**

**program_name**: program_identifier:
The Q Apply program successfully processed a schema message for Q subscription Q_subscription_name (receive queue queue_name, replication queue map queue_map_name). Q Apply changed the state of the Q subscription to E (being loaded by an external application).

Explanation: The Q Apply program received a schema message for the Q subscription and successfully changed its state.

User response: This message is for your information only. No action is required.
Apply program successfully processed a schema message for Q subscription Q_subscription_name (receive queue queue_name, replication queue map queue_map_name). Q Apply changed the state of the Q subscription to L.

**Explanation:** The Q Apply program received a schema message for the Q subscription and successfully changed its state.

**User response:** This message is for your information only. No action is required.

---

Apply agent thread encountered an error while spilling a row message for the Q subscription name to the spill queue queue_name. The browser thread for receive queue queue_name (replication queue map queue_map_name) will stop.

**Explanation:** The Q Apply program had an unrecoverable failure while trying to put a row message for the Q subscription on a temporary spill queue. Q Apply stopped the browser thread.

**User response:** Check the Q Apply log file or any diagnostic or error messages before this message to determine the cause of the failure. For problems with the spill queue, the diagnostic message lists the WebSphere MQ error code. The spill queue might be full. Fix the cause of the underlying failure and use the startq command to restart message processing on the receive queue.

---

The Q Apply program encountered an SQL error while it was running in buffered insert mode for Q subscription name (receive queue queue_name, replication queue map queue_map_name). The program stops reading from the queue.

**Explanation:** The Q Apply program encountered an error or conflict while trying to apply a transaction for this Q subscription in buffered insert mode. When it runs in this mode, Q Apply ignores regular conflict or error handling options, and any SQL error that is encountered by a browser causes Q Apply to stop reading from the affected receive queue. No entry is added to the IBMQREP_EXCEPTIONS table. Refer to the Q Apply diagnostic log file for details about why the error occurred.

**User response:** Address the problem that was identified in the diagnostic log or restart the Q Apply program with buffered_inserts=n. Then activate the receive queue by using the startq command to move past the exception. No changes are lost. The Q Apply program continues to apply changes to other targets.

---

The program was unable to bind the packages that are required for the DB2 EXPORT utility. The Q subscription name (receive queue queue_name, replication queue map queue_map_name) will be deactivated. Bind failed on package pkg_name from the file path_filename. The SQLSTATE sqlstate was returned.

**Explanation:** The program encountered an error while attempting to bind a required package.

**User response:** Interpret the SQLCODE of the failed bind call. Fix the problem and then activate the Q subscription. You can manually bind the required packages by connecting to the source database and running the following command:

```
db2 bind @db2ubind.lst CONCURRENTACCESSRESOLUTION WAIT FOR OUTCOME in COLLECTION ASN.
```

Rebinding the utilities package in collection ASN does not affect the use of those utilities by other...
If you cannot rebind the utilities packages, you might also consider a different load type for the Q subscription. See "IBMQREP_TARGETS table" in the DB2 Information Center for a list of the available load types.

**Explanation:** A valid replication message comes from the Q Capture program and has C (compact) format. The Q Apply browser thread read a message that is not a valid replication message. The message was left on the queue for diagnostic purposes.

**User response:** Use the asnqmfmt command to format the first 50 messages on the queue and save the formatted message output. Contact IBM Software Support with the formatted message output and Q Apply diagnostic log file. Use the following syntax for asnqmfmt:

```
asnqmfmt receive_queue_name queue_manager_name -mqmd -hex -l 50 -o filepath
```

Where filepath is the location on your system where you want asnqmfmt to save the text file with the formatted messages output, and the name of the file.

Inspect the output to see if the "MsgId" field contains the specified message ID. If not, continue getting the asnqmfmt output of more messages until the output contains the ID in question.

**Explanation:** The Q Apply program's caught-up point with respect to the source is reported in the message text. You can use the value that is appropriate for your source operating system for the Q Capture maxcmtseq parameter to restart Q Capture without the need for a full refresh of target tables in situations where the Q Capture restart information or WebSphere MQ messages are lost.

**User response:** This message is for your information only. No action is required.

**Explanation:** The program received a message from the Q Capture program to deactivate the Q subscription. A user might have deliberately deactivated the Q subscription, or the Q Capture program might have deactivated it because of an error during processing.

**User response:** This message is informational only. If the deactivation of this Q subscription was unexpected, check the associated Q Capture log file for reasons for the deactivation.

**Explanation:** The program determines whether the source database uses CURRENTLY COMMITTED locking semantics by default. If the load utility does not disable this behavior, data loss will result if in-flight transactions are in progress at the time a load phase is initiated. See the reason code for possible workarounds. For all situations, the default workaround to prevent potential data loss is to suspend applications from the time the Q subscription is started (when a CAPSTART signal is inserted into the IBMQREP_SIGNAL table) until at least the start of the load phase (when the Q subscription state changes to L or A in the IBMQREP_SUBS table). Possible reason codes are as follows:

- **0**
  The DSNUTILS package (z/OS only) that enables LOAD from CURSOR cannot be bound at the source database with WAIT FOR OUTCOME semantics. An application suspend is required.

- **1**
  LOAD from CURSOR (Linux, UNIX, and Windows only) has no option to set WAIT
FOR OUTCOME behavior. Either perform an application suspend or perform the following steps:

1. Bind the db2cli packages at the source database with the following command:
   ```
   db2 bind @db2cli.lst
   ```

2. Add the following name-value pair to the db2cli.ini file at the federated database, under the stanza that declares the options for the server definition to which the nickname belongs:
   ```
   [data_source_name]
   CURRENTPACKAGESET=ASN
   ```

   Where data_source_name is the source database that the db2cli.bnd packages were bound against.

2

The LOAD utility from a local database (Linux, UNIX, and Windows only) has no option to set WAIT FOR OUTCOME behavior. An application suspend is required.

User response: Refer to the details in the "Explanation" section that are associated with the reason code in the message text.

---

Oracle targets

```
alter nickname
   apply_schema.IBMQREP_DONEMSG
alter COLUMN RECVQ OPTIONS
   (ADD VARCHAR_NO_TRAILING_BLANKS 'Y')
alter nickname
   apply_schema.IBMQREP_SPILLEDROW
alter COLUMN SPILLQ OPTIONS
   (ADD VARCHAR_NO_TRAILING_BLANKS 'Y')
alter nickname
   apply_schema.IBMQREP_SPILLQS
alter COLUMN SPILLQ OPTIONS
   (ADD VARCHAR_NO_TRAILING_BLANKS 'Y')
```

Microsoft SQL Server targets

```
alter nickname
   apply_schema.IBMQREP_DONEMSG
alter COLUMN MQMSGID
   OPTIONS (ADD BINARY_REP 'Y')
```

---

**Explanation:** Messages with a size of zero are not expected. The Q Apply browser continues normal processing after not processing this message. Because this message did not have any content, Q Apply could not determine if this was a transaction message or a control message such as a heartbeat message.

User response: Check the Q Capture log for other errors that might have occurred while Q Capture was replicating or publishing messages to WebSphere MQ.
ASN7707E  program_name : program_identifier : A row change was received from a source database with the DB2 pureScale Feature, and the Q subscription subscription_name (receive queue queue_name, replication queue map queue_map_name) specifies a CCD target. CCD tables are supported only in unidirectional replication in an environment without DB2 pureScale. The Q Apply browser thread will stop.

Explanation: CCD tables are not supported in this configuration.

User response: Migrate the target to a version of DB2 database with DB2 pureScale that supports CCD targets.

ASN7708W  program_name : program_identifier : The Q Apply browser thread for receive queue queue_name (replication queue map queue_map_name) placed the Q subscription subscription_name in pending state. An error occurred and the error action for the Q subscription specifies that messages be placed in a temporary spill queue until the error is resolved. The spill queue spill_queue_name will be used.

Explanation: The error action that was specified for the Q subscription (value of B in the ERROR_ACTION column of the IBMQREP_TARGETS table) prompts the Q Apply program to direct data for the Q subscription to a spill queue when SQL errors are detected.

User response: Take the following actions:
1. Look for messages in the IBMQREP_APPLYTRACE table or Q Apply log file that indicate which SQL error occurred.
2. Fix the error.
3. Issue the resumesub command to prompt Q Apply to apply data from the spill queue and begin normal processing for the Q subscription.

ASN7709E  program_name : program_identifier : The Q Apply program encountered an error for Q subscription subscription_name (receive queue queue_name, replication queue map queue_map_name) and the error action that was specified for the Q subscription is B (break transaction and send changes to a spill queue). However, error action B is not allowed for tables with referential integrity constraints.

Explanation: The table that is specified for this Q subscription has a referential integrity relationship with one or more other tables. Error action B is not allowed for tables with referential integrity constraints.

User response: Take the following actions:
1. Use the replication administration tools to choose a different error action for the Q subscription.
2. If the Q subscription is disabled, restart the Q subscription.
3. If the browser thread for the receive queue was stopped, use the startq command to restart message processing on the receive queue.

ASN7710E  program_name : program_identifier : A Q subscription name already exists for table table_owner.table_name that specifies the receive queue queue_name (replication queue map queue_map_name). However, the Q subscription is in a state other than inactive (I). The program will stop reading from the queue.

Explanation: The Q Apply program tried to create a Q subscription for the table in response to a schema-level Q subscription at the source, but a Q subscription for the table already exists. To create a new Q subscription, the existing Q subscription must be in inactive state so that it can be deleted. The Q Apply program will stop reading from the receive queue.

User response: Follow these steps:
1. Deactivate the existing Q subscription.
2. Use the replication administration tools to delete the existing Q subscription.
3. Issue a startq command to tell Q Apply to start reading from the receive queue.

ASN7711I  program_name : program_identifier : A Q subscription name was successfully created for the target table table_owner.table_name. That table uses receive queue queue_name, and that table uses replication queue map queue_map_name. The Q subscription was automatically created because a schema-level subscription name was defined at the source.

Explanation: The Q Apply program was prompted to automatically create a Q subscription by the Q Capture program because a schema-level subscription was defined at the source for all tables with the same owner. The Q subscription was successfully created.

User response: This message is for your information only. No action is required.
ASN7712I  
program_name : program_identifier : The DDL operation operation was successfully applied at the target.  
Receive queue name: queue_name.  
Replication queue map name: queue_map_name. SQL statement: SQL_statement.

Explanation: The Q Apply program successfully replicated the specified DDL operation. The SQL statement might be truncated if it is too long to be printed.

User response: This message is for your information only. No action is required.

ASN7713E  
program_name : program_identifier : The DDL operation operation that was sent on receive queue queue_name (replication queue map queue_map_name) could not be successfully applied. The SQL statement is SQL_statement. The program will stop reading from the queue.

Explanation: The Q Apply program failed to execute the DDL operation that was replicated from the source. An SQL error is likely to have occurred.

User response: Follow these steps:
1. Look for prior messages that mention SQLSTATE and SQLCODE information.
2. Fix the error.
3. Issue the startq command on the receive queue.

ASN7719W  
program_name : program_identifier : The alteration of column column_name in table table_owner.table_name (Q subscription name, receive queue queue_name, replication queue map queue_map_name) placed the index of the altered column in a REBUILD-pending state. DB2 issued completion code SQL610W with sqlerrmc sqlerrmc_out during execution.

Explanation: The Q Apply program performed an ALTER TABLE ALTER COLUMN SQL statement that changed the status of an index for the altered column to REBUILD pending. REBUILD-pending state indicates that the affected index or index partition is broken and must be rebuilt from the data. All subsequent DML SQL statements on the affected table will fail until the index is removed from REBUILD-pending state.

User response: You can reset the REBUILD-pending status for an index with any of these operations:
- REBUILD INDEX
- REORG TABLESPACE SORTDATA
- REPAIR SET INDEX with NORBDPEND
- START DATABASE command with ACCESS FORCE

ASN7721I  
program_name : program_identifier : The Q Apply browser thread for receive queue queue_name (replication queue map queue_map_name) is already actively processing the queue. The startq command will be ignored.

Explanation: A command to start the browser thread for the receive queue was received, but the browser thread is already active.

User response: This message is for your information only. No action is required.

ASN7722I  
program_name : program_identifier : The Q Apply browser thread for receive queue queue_name (replication queue map queue_map_name) is already inactive. The stopq command will be ignored.

Explanation: A command to stop the browser thread for the receive queue was received, but the browser thread is already inactive.

User response: This message is for your information only. No action is required.

ASN7723E  
program_name : program_identifier : The stopq command for receive queue queue_name (replication queue map queue_map_name) cannot be completed. Reason code: reason_code.

Explanation: The following values are valid for the reason code:

1. The IBMQREP_RECVQUEUES table contains no information about this queue.

2. The program is still in the initialization phase.

User response: Review the reason codes in the explanation, and take the appropriate action:

1. Check the IBMQREP_RECVQUEUES table for the information about the queue. Redefine the Q subscription by using one of the replication administration tools.

2. Reissue the command later.
ASN7727W  program_name : program_identifier : The column column_name that was added to the Q subscription name (receive queue queue_name, replication queue map queue_map_name) already exists at the target table table_owner.table_name. The default value of the target column does not match the default value of the source column.

Explanation: The Q Apply program tried to alter the target table to add a new column, but the new column already exists with a default value that is different from the default value at the source. Q Apply added the column to the Q subscription and started replicating changes.

User response: Check the definitions of the source and target tables to determine the default column values. If the mismatch is not intended, alter the source or target table.

ASN7728W  program_name : program_identifier : The DDL operation that was sent on the receive queue queue_name (replication queue map queue_map_name) will not be applied because the referenced Q subscription name with SUBID subid was not found or is inactive.

Explanation: The Q Apply program did not process a replicated DDL operation because the related Q subscription was either not found or inactive.

User response: No action is required if you deleted the Q subscription or expected it to be inactive. Otherwise, follow these steps:

1. Manually alter the target table with the DDL operation that could not be replicated.
2. Look for previous error messages to determine what caused the Q subscription to become inactive, and fix the error.
3. Use the replication administration tools or a CAPSTART signal to activate the Q subscription.

ASN7729W  program_name : program_identifier : The Q subscription name was successfully created for source table table_owner.table_name. When the Q Apply program created the entry for this new Q subscription in control table table_owner.table_name based on the schema-level Q subscription name that uses receive queue queue_name (replication queue map queue_map_name), it deleted an existing entry for the same source table.

Explanation: After a CREATE TABLE operation is detected for a table with a matching schema-level Q subscription, the Q Capture program informs the Q Apply program so that it can automatically create the Q subscription entry in the IBMQREP_TARGETS and IBMQREP_TRG_COLS control tables. If the Q subscription entry already exists in one or both of these control tables, Q Apply deletes the prior Q subscription entry and creates the new entry.

User response: You might want to determine why the Q subscription entry for the same target table already existed in one or both of these control tables. If Q Capture was restarted from a prior point in the log, it might have encountered a log record for the same CREATE TABLE operation and replicated details of this operation to the target.

ASN7730W  program_name : program_identifier : In response to a CREATE TABLE operation at the source database or subsystem, the Q Apply program tried to create a Q subscription for source table table_owner.table_name based on the schema-level Q subscription name that uses replication queue map queue_map_name on receive queue queue_name. However, the individual Q subscription could not be created because the insertion of Q subscription information into the IBMQREP_TARGETS control table failed. The SQL code or internal replication reason code is sqlcode_or_reason_code. Q Apply will continue processing changes for other Q subscriptions on this receive queue.

Explanation: After a CREATE TABLE operation for a table with a matching schema-level Q subscription is detected, the Q Capture program informs the Q Apply program so that it can automatically create the Q subscription entry in the IBMQREP_TARGETS table. If the insertion of the Q subscription entry fails, the Q subscription is not created and replication does not start for the source table.

User response: If you want to replicate this source table, use the replication administration tools to create a Q subscription for the table. Make sure that the source and target tables exist or let the replication tools create the target table. Check the SQL code or internal reason code to determine why the insert operation into IBMQREP_TARGETS failed.
**ASN7731W**

**program_name : program_identifier : The**

program tried to create a new Q subscription entry in the IBMQREP_TRG_COLS control table for source table table_owner.table_name based on the schema-level Q subscription name that uses replication queue map queue_map_name and receive queue queue_name. However, the insertion of Q subscription information into the control table failed. The SQL code or internal replication reason code is sqlcode_or_reason_code. The Q subscription for this source table will be deactivated. Q Apply will continue processing changes for other Q subscriptions that use this receive queue.

**Explanation:** After a CREATE TABLE operation for a table with a matching schema-level Q subscription is detected, the Q Apply program automatically adds Q subscription information about the columns in the target table to the IBMQREP_TRG_COLS control table. However, the insertion of this information into the control table failed. The Q subscription will be deactivated in the IBMQREP_TARGETS table.

**User response:** Follow these steps:
1. Check the SQL code or internal reason code to determine why the insert into IBMQREP_TRG_COLS failed.
2. Use the replication administration tools to delete and recreate the Q subscription for the table. Make sure that the target table exists or let the replication tools create the target table.

**ASN7732E**

**program_name : program_identifier : The**

Q Apply program could not find the spill queue spill_queue_name for Q subscription name that uses receive queue queue_name (replication queue map qmap_name). Q subscription state is state. The Q subscription will be deactivated.

**Explanation:** When a Q subscription specifies that the target table should be loaded with data from the source, either by the Q Apply program (automatic load) or outside of replication (manual load), a spill queue must exist to hold changes from the source table during the loading process. The Q Apply program could not find a spill queue with the name that is specified for the Q subscription, and so it deactivated the Q subscription. This situation can occur if the same model queue name is used for multiple Q Apply programs that share the same queue manager and one Q Apply program deletes the spill queue after using it.

Model queue names can be specified in two ways:

* At the Q subscription level (the names are stored in the MODELQ column of each Q Apply program's IBMQREP_TARGETS table).
* At the Q Apply instance level by using the dftmodelq initialization parameter.

When multiple Q Apply programs use the same queue manager, all model queue names that are specified through either of these methods must be unique.

**User response:** Check to see if the specified spill queue was deleted. If multiple Q Apply programs share the same queue manager, ensure that all model queue names are unique. After you change the spill queue name, activate the Q subscription.

**ASN7733W**

**program_name : program_identifier : The**

DDL operation operation that was sent on the receive queue queue_name (replication queue map queue_map_name) will not be applied because the object that the DDL would create at the target database or subsystem already exists. The DDL statement is SQL_statement.

**Explanation:** The Q Apply program did not process a replicated DDL operation because the object that was created at the source and for which the DDL was replicated already exists at the target.

**User response:** No action is required unless the object at the target does not match the object definition at the source. In that case, manually alter the object to match the source definition.

**ASN7734W**

**program_name : program_identifier : The**

DDL operation operation that was sent on receive queue queue_name (replication queue map queue_map_name) will not be applied because the object that was requested to be dropped at the target was not found. The SQL statement is SQL_statement.

**Explanation:** The Q Apply program did not process a replicated DDL operation because the object that was to be dropped was not found.

**User response:** No action is required if the object was intentionally dropped. Otherwise, look for prior messages to determine what caused the object to be missing.

**ASN7735E**

**program_name : program_identifier : The**

command to start the Q Apply program contained both the autostop=Y and term=N parameters. The Q Apply program will stop.

**Explanation:** You cannot specify autostop=Y when the value of the term parameter is N (No). You also cannot specify term=N when the saved value of autostop in
the IBMQREP_APPLYPARMS table is Y.

User response: Restart the Q Apply program while specifying either the autostop parameter or the term=N parameter. Update the value of autostop in the IBMQREP_APPLYPARMS table if necessary.

---

**ASN7737**

**program_name**: program_identifier : The Q subscription name (receive queue queue_name, replication queue map queue_map_name) does not have a valid model queue defined. The Q subscription will be deactivated. Reason code: reason_code

**Explanation**: The model queue that is associated with the Q subscription is not valid or was defined incorrectly on WebSphere MQ. The Q Apply program could not activate the Q subscription. Model queues can be specified in the MODELQ column of the IBMQREP_TARGETS table (Q subscription level) or with the dftmodelq initialization parameter (Q Apply instance level). The following values are valid for the reason code:

0

The model queue name that was specified does not exist in WebSphere MQ.

1

The model queue was not defined on WebSphere MQ as a permanent dynamic type of queue.

User response: Review the reason codes in the explanation, and take the appropriate action:

0

Define the model queue on WebSphere MQ and activate the Q subscription.

1

Change the model queue definition on WebSphere MQ to include permanent dynamic type by using the DEFTYPE (PERMDYN) keywords, then activate the Q subscription.

---

**ASN7741**

**program_name**: program_identifier : The Q Apply program successfully created a unique index index_name on the target table table_owner.table_name. The index is for Q subscription name, and that Q subscription is based on schema-level subscription name (receive queue queue_name, replication queue map queue_map_name). The index was created because there was no primary key or unique index on the target table that matched the replication key of the Q subscription.

**Explanation**: Q Apply successfully created a unique index on the target table that is based on the replication key of the Q subscription. For a Q subscription that is based on a schema-level subscription, if the target table is missing a unique index or primary key that matches the replication key that was chosen by Q Capture, then Q Apply creates a unique index for the columns of the replication key before it activates the Q subscription.

User response: This message is for your information only. No action is required.
ASN7742E  

**program_name** : **program_identifier** : A Q Apply browser thread has stopped because a row change was received for the Q subscription named **name** (receive queue **queue_name**, replication queue map **queue_map_name**) to a stored procedure target that uses an invalid data type.

**Explanation**: Databases with the DB2 pureScale Feature use 16-byte log sequence numbers (LSN) to record the number of each pureScale member. If the source database uses the DB2 pureScale Feature, you can continue to use stored procedure targets if the following conditions are met:

- You change the stored procedure target to use the VARCHAR(16) data type for the SRC_COMMIT_LSN parameter.
- The Q Capture compatibility parameter is set to 0907. In this case, Q Capture continues to use 10-byte LSNs and the CHAR(10) data type is supported for the SRC_COMMIT_LSN parameter.

**User response**: Change the stored procedure target to use the VARCHAR(16) data type for the SRC_COMMIT_LSN parameter, or change the value for compatibility to 0907.

**ASN7748W**  

**program_name** : **program_identifier** : The DDL operation **operation** that was sent on receive queue **queue_name** (replication queue map **queue_map_name**) was applied, but the operation caused an SQL warning. The SQLCODE is **sqlcode**. The SQLSTATE is **sqlstate**. The SQLERRMC is **sql_tokens**. The SQL statement is **SQL_statement**. The program continues to process the receive queue.

**Explanation**: The Q Apply program performed the DDL operation that was replicated from the source, but a SQL warning was reported. The program continues to process the receive queue.

**User response**: Review the reported SQLSTATE and SQLCODE information. To address the SQL warning, perform any corrective steps that are required or suggested in the message or DB2 documentation.

**ASN7749W**  

**program_name** : **program_identifier** : The program is unable to perform an insert operation on the event table **schema.IBMQREP_APPEVENTS**. The SQL code is **SQLCODE**. The events that were generated for this interval will not be added to the table.

**Explanation**: The event thread failed with an unexpected SQL code. The generated events for this interval are not inserted into the IBMQREP_APPEVENTS table. The program tries again at the next interval. This error does not cause the program to terminate.

**User response**: Insert a valid event type and reissue the task.

**ASN7750W**  

**program_name** : **program_identifier** : The program is unable to send EIF messages to the event server (host:port). The subsequent EIF messages for this interval will not be sent to the server.

**Explanation**: The TCP/IP connection to the event server failed. The generated EIF messages for this interval are not sent, and the program tries again at the next interval. This error does not cause the program to terminate.

**User response**: Review the most recently issued ASN0686W, ASN0687W, ASN0688W, or ASN0689W messages to determine the cause of the error.

**ASN7751I**  

**program_name** : **program_identifier** : The Q Apply program is now ready to generate events. Events will be sent to the following destinations: **destinations**.

**Explanation**: The Q Apply program created a separate thread for generating events that are defined in the IBMQREP_APPEVTDEFS table. You can direct events to the console, IBMQREP_APPEVENTS table, and Event Interface Facility (EIF) servers. The EIF servers can be specified by using two different mechanisms:

- The eif_conn1 and eif_conn2 parameters of the asnqapp command
- The eif_conn1 and eif_conn2 columns of the IBMQREP_APPLYPARMS table

**User response**: This message is for your information only. No action is required.

**ASN7754E**  

**program_name** : **program_identifier** : The program did not recognize the event type **event_type** that was inserted into the **schema.IBMQREP_APPEVTDEFS** table.

**Explanation**: The IBMQREP_APPEVTDEFS table stores definition for events that are generated by Q Apply. The value that was provided for the event definition is not valid. Valid values include AVERAGE_LATENCY, LONG_COMMITTED_TRANS, HEARTBEAT, QUEUE_UP, QUEUE_DOWN, and PIT_CONSISTENCY_LATENCY.

**User response**: Insert a valid event type and reissue the task.

Chapter 46. ASN7500 - ASN7999  369
The value input_value that was inserted into the schema.IBMQREP_APPEVTDEFS table is invalid for the row whose primary key is (WORKLOADNAME workload_name, QMapNAME queue_map_name, TYPE type). Reason code: reason_code.

Explanation: The following values are valid for the reason code:

1. When TYPE is either AVERAGE_LATENCY or PIT_CONSISTENCY_LATENCY, the value of RESET (the reset average latency threshold) must be less than 80 percent of MAX (maximum average latency threshold).

2. When TYPE is AVERAGE_LATENCY, the value of MAX (the maximum average latency threshold) must be greater than or equal to 250 milliseconds.

3. When TYPE is AVERAGE_LATENCY, the value of RESET (the reset average latency threshold) must be greater than or equal to 100 milliseconds.

4. When TYPE is LONG_COMMITTED_TRANS, the value of MAX (the maximum threshold for long-committed transactions) must be greater than or equal to 251 milliseconds.

5. When TYPE is PIT_CONSISTENCY_LATENCY, the value of MAX (the maximum threshold for point-in-time consistency latency) must be greater than or equal to 1500 milliseconds.

6. When TYPE is PIT_CONSISTENCY_LATENCY, the value of RESET (the reset threshold for point-in-time consistency latency) must be greater than or equal to 800 milliseconds.

7. For a specific replication group, the average maximum latency threshold (the value of MAX when TYPE is AVERAGE_LATENCY) must be greater than or equal to the long committed transaction latency threshold (the value of MAX when TYPE is LONG_COMMITTED_TRANS). All of the event types for a replication group have identical WORKLOADNAME and QMAPNAME.

8. The valid values of EIF_WORKLOADTYPE are Active/Standby and Active/Query.

9. When EIF is Y in the IBMQREP_APPEVTDEFS table, a value must be provided for EIF_CONN1 or EIF_CONN2 in the IBMQREP_APPLYPARMS table.

10. The value of the EIF column in the IBMQREP_APPEVTDEFS table is Y, but the specified values for the parameters EIF_CONN1 and EIF_CONN2 in the IBMQREP_APPLYPARMS table are invalid. The value for EIF_CONN1 and EIF_CONN2 must be either the host name or the IPv4 address of the EIF server with the port number in parentheses. For example, 9.123.59.123(22008) or stlms1.svl.ibm.com(25009).

11. The valid values of the EIF, TABLE and CONSOLE column are N and Y.

12. The value of the CONSOLE column must be N when the value of the TYPE column is neither AVERAGE_LATENCY nor PIT_CONSISTENCY_LATENCY.

13. The value of the EIF column must be N when the value of the TYPE column is PIT_CONSISTENCY_LATENCY.

14. The value of the EIF column must be N when the value of the TYPE column is HEARTBEAT.

15. When TYPE is LONG_COMMITTED_TRANS, the column value of RESET must be NULL.

16. When TYPE is either AVERAGE_LATENCY or PIT_CONSISTENCY_LATENCY, the value of the RESET column must be less than 80 percent of the value of the MAX column.

17. When the EIF_WORKLOADTYPE is Active/Standby and MCG is enabled, the value of column WORKLOADNAME must be
equivalent to the corresponding MCGNAME, which is defined in the IBMQREP_RECVQUEUES table.

When the EIF_WORKLOADTYPE is Active/Query and MCG is enabled, the value of column WORKLOADNAME must be not identical to the corresponding MCGNAME, which is defined in the IBMQREP_RECVQUEUES table.

User response: Verify that the information that you entered is correct, and reissue the task.

---

**ASN7756I**  
**program_name : program_identifier :** The Q Apply event thread is waiting for all browser threads to stop before it issues the QUEUE_DOWN event.

Explanation: The QUEUE_DOWN event specifies that Q Apply has stopped processing messages on a receive queue. Before the event is generated, the event thread waits until all browser threads have stopped.

User response: This message is for your information only. No action is required.

---

**ASN7757E**  
**program_name : program_identifier :** An initial attempt to connect to the primary or backup event server (host:port) failed. The Q Apply program stopped. Reason code: reason_code.

Explanation: If the value of the EIF column in the IBMQREP_APPLYEVTDEFS table is Y, connection information must be specified for either a primary or backup event server. These servers are the destination for generated EIF messages. When Q Apply started, it tried to connect to an event server but was unsuccessful. The following values are valid for the reason code:


User response: If you do not need to generate EIF events, change the value of EIF to N and restart the Q Apply program. Otherwise, take one of the following actions depending on the reason code and then restart Q Apply:

1. Make sure that the EIF_CONN1 and EIF_CONN2 columns in the IBMQREP_APPLYPARMS table specify valid host names or IP addresses, service names, or ports. If the host name is correct, then TCP/IP is unable to resolve the host name to an IP address. Make changes that are needed to allow for proper resolution of host name to IP address. If the changes have been made to the name server or local host table, refresh the resolver.
2. Review the most recently issued ASN0686W message to determine the cause of the error.
3. Review the most recently issued ASN0687W message to determine the cause of the error.
4. Review the most recently issued ASN0688W message to determine the cause of the error.
5. Review the most recently issued ASN0689W message to determine the cause of the error.

---

**ASN7758W**  
**program_name : program_identifier :** The connection to the primary or backup event server (host:port) was lost.

Explanation: If the value of the EIF column in the IBMQREP_APPLYEVTDEFS table is Y, connection information must be specified for either a primary or backup event server. These servers are the destination for generated EIF messages. The existing connection to the event servers was lost. Q Apply will try to reconnect.

User response: Make sure that the TCP/IP protocol is working on the specified event servers.

---

**ASN7759I**  
**program_name : program_identifier :** The program connected to the primary or backup event server (host:port).

Explanation: Q Apply connects to a primary or backup event server to send EIF messages.

User response: This message is for your information only. No action is required.
Program Name: The Q Apply program detects on receive queue `queue_name` (replication queue map `queue_map_name`) that the Q Capture program is using parallel send queues. The `parallel_sendqs` option for the queue map must be set to `y` (yes) in this configuration. Q Apply stopped message processing on the receive queue.

**Explanation:** Send queues are said to be parallel when multiple send queues that each use a different transmission queue all route to the same receive queue. When a Q Capture program uses parallel send queues, the replication queue map option `parallel_sendqs` must be set to `y` (yes) to handle messages that do not arrive in the receive queue in dense message order.

**User response:** Use one of the replication administration tools to change the value of the replication queue map option `parallel_sendqs` to `y` and then restart message processing on the receive queue.

---

Program Name: The setting for the Q Apply `prune_method` parameter of `setting` is not compatible with the `parallel_sendqs=y` option for replication queue map `queue_map_name` (receive queue `queue_name`).

**Explanation:** When a receive queue is running with the queue map option `parallel_sendqs=y`, the Q Apply instance-level parameter `prune_method` must be set to 2.

**User response:** Restart the Q Apply program with `prune_method=2`, and restart message processing on the receive queue.

---

Program Name: The `reinitq` command was processed successfully. The Q Apply program will begin using the event definition that was inserted into the `schema:IBMQREP_APPEVTDEFS` table for the event type `type` in the workload `workload_name` of replication queue map `queue_map_name`.

**Explanation:** The event definition was updated for a particular event type in the workload of the queue map. The `reinitq` command prompts Q Apply to begin using the updated definition.

**User response:** This message is for your information only. No action is required.

---

Program Name: The value `input_value` that was inserted into the `schema:IBMQREP_APPEVTDEFS` table is invalid for the row whose primary key is `{workload_name, QMAPNAME, queue_map_name, TYPE type}`. Reason code: `reason_code`.

**Explanation:** The following values are valid for the reason code:

1. When TYPE is either `AVERAGE_LATENCY` or `PIT_CONSISTENCY_LATENCY`, the value of `RESET` (the reset average latency threshold) must be less than 80 percent of `MAX` (maximum average latency threshold).

2. When TYPE is `AVERAGE_LATENCY`, the value of `MAX` (the maximum average latency threshold) must be greater than or equal to 250 milliseconds.

3. When TYPE is `AVERAGE_LATENCY`, the value of `RESET` (the reset average latency threshold) must be greater than or equal to 100 milliseconds.

4. When TYPE is `LONG_COMMITTED_TRANS`, the value of `MAX` (the maximum threshold for long-committed transactions) must be greater than or equal to 251 milliseconds.

5. When TYPE is `PIT_CONSISTENCY_LATENCY`, the value of `MAX` (the maximum threshold for point-in-time consistency latency) must be greater than or equal to 1500 milliseconds.

6. When TYPE is `PIT_CONSISTENCY_LATENCY`, the value of `RESET` (the reset threshold for point-in-time consistency latency) must be greater than or equal to 800 milliseconds.

7. For a specific replication group, the average maximum latency threshold (the value of `MAX` when TYPE is `AVERAGE_LATENCY`) must be greater than or equal to the long committed transaction latency threshold (the value of `MAX` when TYPE is `LONG_COMMITTED_TRANS`). All of the
event types for a replication group have identical WORKLOADNAME and QMAPNAME.

The valid values of EIF_WORKLOADTYPE are Active/Standby and Active/Query.

When EIF is Y in the IBMQREP_APPEVTDEFS table, a value must be provided for EIF_CONN1 or EIF_CONN2 in the IBMQREP_APPLYPARMS table.

The value of the EIF column in the IBMQREP_APPEVTDEFS table is Y, but the specified values for the parameters EIF_CONN1 and EIF_CONN2 in the IBMQREP_APPLYPARMS table are invalid. The value for EIF_CONN1 and EIF_CONN2 must be either the host name or the IPv4 address of the EIF server with the port number in parentheses. For example, 9.123.59.123(22008) or stlmvs1.svl.ibm.com(25009).

The valid values of the EIF, TABLE, and CONSOLE columns are N and Y.

The value of the CONSOLE column must be N when the value of the TYPE column is neither AVERAGE_LATENCY nor PIT_CONSISTENCY_LATENCY.

The value of the EIF column must be N when the value of the TYPE column is PIT_CONSISTENCY_LATENCY.

The values of the EIF column must be N when the value of the TYPE column is HEARTBEAT.

When the value of the TYPE column is LONG_COMMITTED_TRANS, the value of the RESET column must be NULL.

When the value of the TYPE column is either AVERAGE_LATENCY or PIT_CONSISTENCY_LATENCY, the value of the RESET column must be less than 80 percent of the value of the MAX column.

The valid TYPE values include AVERAGE_LATENCY, LONG_COMMITTED_TRANS, HEARTBEAT, QUEUE_UP, QUEUE_DOWN, and PIT_CONSISTENCY_LATENCY.

When the value of the TYPE column is Active/Standby and MCG is enabled, the value of column WORKLOADNAME must be equivalent to the corresponding MCGNAME, which is defined in the IBMQREP_RECVQUEUES table.

When the value of the TYPE column is Active/Query and MCG is enabled, the value of column WORKLOADNAME must be not identical to the corresponding MCGNAME, which is defined in the IBMQREP_RECVQUEUES table.

User response:
1. Verify that the information that you entered is correct. If not redo the update of the IBMQREP_APPEVTDEFS table.
2. Issue the reinitq command for the receive queue that is specified in the queue map to prompt Q Apply to begin using the updated definitions.

ASN7765W  program_name : program_identifier : The reinitq command was issued after an update to the event definitions for the receive queue queue_name, replication queue map queue_map_name. However, none of the event definitions in the IBMQREP_APPEVTDEFS table were changed.

Explanation: A reinitq command was issued to prompt the Q Apply program to begin using updated event definitions for the receive queue, but the definitions that were updated in the IBMQREP_APPEVTDEFS table were the same as the existing values.

User response: If you want to change the related event definitions from the current values, follow these steps:
1. Redo the update of the IBMQREP_APPEVTDEFS table, making sure the new values are included.
2. Issue the reinitq command for the receive queue that is specified in the queue map to prompt Q Apply to begin using the updated definitions.
Part 5. AUD Messages
### Chapter 47. AUD0000 - AUD0499

<table>
<thead>
<tr>
<th>AUD0000I</th>
<th>Operation succeeded.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUD0001N</td>
<td>Operation failed.</td>
</tr>
<tr>
<td>AUD0002N</td>
<td>Syntax error. Usage:</td>
</tr>
<tr>
<td>AUD0003N</td>
<td>I/O error on accessing directory/filename, make sure the directory/file exists and has the right permission.</td>
</tr>
<tr>
<td>AUD0004N</td>
<td>File system full, can't write to filename.</td>
</tr>
<tr>
<td>AUD0016N</td>
<td>Invalid database name.</td>
</tr>
<tr>
<td>AUD0017N</td>
<td>Can not read audit configuration file.</td>
</tr>
<tr>
<td>AUD0018N</td>
<td>An error occurred when updating the audit settings for the instance sqlcode sqlcode. Check the sqlcode's meaning for more information.</td>
</tr>
<tr>
<td>AUD0019N</td>
<td>System error occurred. Retry the command, if still failing, take a trace and then contact IBM support.</td>
</tr>
<tr>
<td>AUD0020N</td>
<td>Error occurred during pruning. db2audit.log has been truncated to size 0, the contents originally in db2audit.log can be found in db2audit.cpy</td>
</tr>
<tr>
<td>AUD0021N</td>
<td>Filename already exists. It could be generated by previous db2audit operation. Make sure that it does not contain any information you need, remove it and then retry the command.</td>
</tr>
<tr>
<td>AUD0022N</td>
<td>The Audit Log File is corrupted.</td>
</tr>
<tr>
<td>AUD0023N</td>
<td>An error occurred while auditing the requested event, sqlcode sqlcode. Check the sqlcode's meaning for more information.</td>
</tr>
<tr>
<td>AUD0026I</td>
<td>A request to start the DB2 audit facility has been processed. Note that audit may have already been started on the instance.</td>
</tr>
<tr>
<td>AUD0027I</td>
<td>A request to stop the DB2 audit facility has been processed. Note that audit may have already been stopped on the instance.</td>
</tr>
<tr>
<td>AUD0028N</td>
<td>An invalid ASCII delimiter was specified for the extract. This delimiter must either be a single character, or a 4 byte string representing a valid hexadecimal character value such as 0xff.</td>
</tr>
<tr>
<td>AUD0029N</td>
<td>The NODE option was not specified on the archive option, but the database server is not running. Either indicate which node the archive is to take place on, or issue a db2start so the archive will take place on all nodes.</td>
</tr>
<tr>
<td>AUD0035N</td>
<td>The active audit log directory-or-filename has already been archived, and new events cannot be logged to it.</td>
</tr>
<tr>
<td>AUD0036N</td>
<td>Extract can not be performed on the active audit log file directory-or-filename.</td>
</tr>
</tbody>
</table>
Part 6. CCA Messages

This section contains the Configuration Assistant Interface (CCA) messages. The messages are listed in numeric sequence.
Chapter 48. CCA1000 - CCA1499

<table>
<thead>
<tr>
<th>CCA1001I</th>
<th>Use alphanumeric characters only. The first character cannot be numeric.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCA1002I</td>
<td>Use decimal numbers, 0 to 9, only.</td>
</tr>
<tr>
<td>CCA1003I</td>
<td>No DB2 system was found on the network.</td>
</tr>
<tr>
<td>CCA1004I</td>
<td>No DB2 instance was found on the selected system(s).</td>
</tr>
<tr>
<td>CCA1005I</td>
<td>No DB2 database was found on the selected instance(s).</td>
</tr>
</tbody>
</table>
Chapter 49. CCA2000 - CCA2499

CCA2001W No files were found matching the file pattern specified.

Explanation: A request was made to read from files matching the specified file pattern. No files were found matching the pattern.

User response: Correct the file pattern specified and retry the operation.

CCA2002W An error was encountered while updating the TCP/IP services file.

Explanation: An attempt to add a service name and port number to the TCP/IP services file failed or Network Information Services is being used and only the local services file was updated. The port number was used to catalog the node instead of the service name.

User response: To use the service name instead of the port number in the node directory entry, the node must be manually uncataloged and then recataloged using the service name. The services file must also be updated manually. If Network Information Services (NIS) is being used, the local services file may have been updated but the NIS server must be updated manually. In this case, the node was also cataloged using the port number.

CCA2003W The Discover request did not return data for one or more DB2 systems.

Explanation: The discover request did not return data for one or more of the requested DB2 systems. One of the following may have occurred:

- The Administration Server to which the discover request was sent has not been started.
- An error occurred attempting to perform the discover request.
- The DB2 system to which the discover request was sent is not configured for discovery.

User response: Verify that the DB2 system to which the discover request was sent is enabled for discovery. If enabled for discovery, ensure that the Administration Server on the DB2 system is running.

CCA2004W The nname value specified is not unique.

Explanation: The nname value specified is already being used by another NetBIOS application on the network.

User response: Select 'YES' to use the specified nname or 'NO' to cancel the request. If 'YES' is selected, any application using the existing nname will be affected.

CCA2005W The socket number specified is not unique.

Explanation: The socket number specified is being used by another DB2 instance on the workstation.

User response: Select 'YES' to use the specified socket or 'NO' to cancel the request. If 'YES' is selected, any application using the existing socket number will be affected.

CCA2006W An entry already exists in the TCP/IP services file for the service name and port number specified.

Explanation: An entry already exists in the TCP/IP services file for the service name and port number specified. Another application may be using the entry.

User response: Select 'YES' to use the existing entry or 'NO' to cancel the request. If 'YES' is selected, any application using the existing entry will be affected.

CCA2007W The port number specified is being used with a different service name.

Explanation: The TCP/IP services file contains an entry that uses the port number specified but the associated service name does not match the service name specified.

User response: Select 'YES' to use the specified service name and port number or 'NO' to cancel the request. If 'YES' is selected, a new entry will be added to the services file. Any applications using the entry with the existing port number may be affected.

CCA2008W The service name specified is being used with a different port number.

Explanation: The TCP/IP services file contains an entry that uses the service name specified but the associated port number does not match the port number specified.

User response: Select 'YES' to use the specified service name and port number or 'NO' to cancel the request. If 'YES' is selected, the existing entry in the services file, using the service name, will be updated to use the port number specified. This may affect any applications using the existing entry.

CCA2009W The request was canceled by the user.
CCA2010W  CCA2015W

**Explanation:** The request was canceled by the user.

**User response:** None.

<table>
<thead>
<tr>
<th>CCA2010W</th>
<th>CCA2015W</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong> An attempt to update the APPC stack failed.</td>
<td><strong>Explanation:</strong> Remote database cataloged using APPC but the stack was not configured.</td>
</tr>
<tr>
<td><strong>User response:</strong> The APPC stack must be manually updated. If the Transaction Program name is not added to the stack, remote connections to the server will not be possible.</td>
<td><strong>User response:</strong> If APPC is not installed on the client, uncatalog the database and recatalog the database manually using a protocol that is available on both the client and server. If APPC is installed, configure the stack if it has not already been configured.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CCA2011W</th>
<th><strong>An attempt to add the service name and port number to the TCP/IP services file failed.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong> An attempt to add the service name and port number to the TCP/IP services file failed. The database manager configuration file has been updated with the service name specified.</td>
<td><strong>Explanation:</strong> The TCP/IP services file contains entries that use the service name and port number specified but they are not being used in the same entry.</td>
</tr>
<tr>
<td><strong>User response:</strong> The service name and port number must be manually added to the TCP/IP service file. If the entry is not added to the services file, remote connections to the server will not be possible.</td>
<td><strong>User response:</strong> Select 'YES' to use the specified service name and port number or 'NO' to cancel the request. If 'YES' is selected, the existing entry in the services file, using the service name, will be updated to use the port number specified. This may affect any applications using the existing entries.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CCA2012W</th>
<th>The Discover request did not find any DB2 systems.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong> A request to search the network for DB2 systems completed successfully but no DB2 systems were found. Following is a list of possible reasons why no DB2 systems were found:</td>
<td></td>
</tr>
<tr>
<td>• Search discovery was not enabled on any DB2 systems (that is, in the DBM configuration file of the administration server on the DB2 system, DISCOVER = SEARCH was not specified).</td>
<td><strong>Explanation:</strong> The TCP/IP services file contains entries that use the service name and port number specified but they are not being used in the same entry.</td>
</tr>
<tr>
<td>• The DB2 system was not set up with the appropriate discovery protocol for the client to find it (that is, DISCOVER_COMM on the administration server does not contain a protocol that matches one specified for DISCOVER_COMM on the client).</td>
<td><strong>User response:</strong> Select 'YES' to use the specified service name and port number or 'NO' to cancel the request. If 'YES' is selected, the existing entry in the services file, using the service name, will be updated to use the port number specified. This may affect any applications using the existing entries.</td>
</tr>
<tr>
<td>• The DB2 system is on the other side of a router or bridge, and the routers and bridges on the network were configured such that the discovery packet was filtered out and not passed on.</td>
<td><strong>User response:</strong> Select 'YES' to use the specified service name and port number or 'NO' to cancel the request. If 'YES' is selected, the existing entry in the services file, using the service name, will be updated to use the port number specified. This may affect any applications using the existing entries.</td>
</tr>
<tr>
<td><strong>User response:</strong> Following is a list of possible actions to take in order for discovery to find DB2 systems:</td>
<td></td>
</tr>
<tr>
<td>• Set DISCOVER = SEARCH in the DBM configuration file of the administration server on all DB2 systems that you wish to be found.</td>
<td><strong>User response:</strong> Select 'YES' to use the specified service name and port number or 'NO' to cancel the request. If 'YES' is selected, the existing entry in the services file, using the service name, will be updated to use the port number specified. This may affect any applications using the existing entries.</td>
</tr>
<tr>
<td>• Set DISCOVER_COMM for the administration server to include the protocol that the client will use to issue a discover request (that is, set DISCOVER_COMM to include at least one of the protocols specified in DISCOVER_COMM on the client).</td>
<td><strong>User response:</strong> Select 'YES' to use the specified service name and port number or 'NO' to cancel the request. If 'YES' is selected, the existing entry in the services file, using the service name, will be updated to use the port number specified. This may affect any applications using the existing entries.</td>
</tr>
</tbody>
</table>
The password will be saved as clear text.

**Explanation:** The password will be saved as clear text in db2cli.ini file.

**User response:** If password security is a concern, deselect the 'Save password' check box.
Chapter 50. CCA3000 - CCA3499

CCA3000C An internal error has occurred. Reason code reason-code.

Explanation: An unexpected internal error has occurred.

User response: Turn trace on and retry the steps that caused the error. If the problem reoccurs, save the trace information to a file and contact IBM Support with the following information:
- Problem description
- Message number
- Reason code
- Trace file

CCA3001N The specified service name and port number conflicts with existing values in the TCP/IP services file.

Explanation: The service name and port number entered by the user conflicts with existing values in the TCP/IP services file. The service name may already be used with a different port number, the port number may already be used with a different service name or both.

User response: Specify a service name and port number that does not conflict with existing entries in the services file.

CCA3002N An I/O error occurred.

Explanation: An error was encountered while attempting to open, read, change the file position or close a file.

User response: If a file name was specified, verify that the file name is valid and that the user has permission to access the file. Also check for any disk and operating system errors.

CCA3003N The format of the file is not valid.

Explanation: An error was encountered while reading from a file. The format of the file is not valid. Possible errors include:
- The file contains invalid data.
- The file does not contain expected data.
- The order of the data in the file is incorrect.

User response: If a file name was specified, and the file has been modified by the user, regenerate the file and retry the operation. If the problem persists, and the file was not modified by the user, or the problem occurred during a Discover request, turn trace on and retry the steps that caused the error. If the problem reoccurs, save the trace information to a file and contact IBM Support with the following information:
- Problem description
- Message number
- Trace file
- File which is causing the error if a file name was specified

CCA3004N An attempt to allocate memory failed.

Explanation: An error was detected while attempting to allocate memory.

User response: Terminate other applications running on the system that may be using large amounts of memory. If the problem persists, turn trace on and retry the operation. If the problem reoccurs, save the trace information to a file and contact IBM Support with the following information:
- Problem description
- Message number
- Trace file

CCA3005N An error was encountered while writing to a file.

Explanation: An error was detected while writing to a profile. The error could also be encountered when updating a host system password and errors are being recorded in the file db2pem.log.

User response: Verify that the file system on which the file resides is not full and is not damaged. Also check for any operating system errors.

CCA3006N No matching communication protocol was detected.

Explanation: The database cannot be cataloged because none of the protocols available on the client match any of the protocols available at the server.

User response: Ensure that the client and server have at least one matching communication protocol that can be detected on both. If a matching protocol is installed on both the client and the server, the protocol could not be detected. In this case, catalog the database and node manually.

CCA3007N The database alias name specified is not valid.

Explanation: The length of the database alias specified is not a valid or the alias contains invalid characters.
CCA3009N  The application requestor name specified is not valid.

Explanation: The length of the application requestor name specified is not valid or the name contains invalid characters.

User response: Correct the application requestor and resubmit the request.

CCA3010N  The length of the parameter value specified is not valid.

Explanation: The length of the parameter value specified for the application requestor is not valid.

User response: Correct the parameter value and resubmit the request.

CCA3011N  The target database name specified is not valid.

Explanation: The length of the target database name specified is not valid or the name contains invalid characters.

User response: Correct the target database name and resubmit the request.

CCA3012N  Add ODBC data source failed.

Explanation: A request to add an ODBC data source failed. The error could be caused by an out of memory error, a disk full condition or a disk failure.

User response: Verify that the disk on which the ODBC.INI and DB2CLI.INI files reside is not full and that the disk is not damaged. In addition, if other applications are using large amounts of memory, terminate the applications and retry the operation.

CCA3013N  Remove ODBC data source failed.

Explanation: A request to remove an ODBC data source failed. The error could be caused by an out of memory condition or a disk failure.

User response: If other applications are using large amounts of memory, terminate the applications and retry the operation. Also verify that the disk on which the ODBC.INI and DB2CLI.INI files reside is not damaged.

CCA3014N  The bind request cannot be processed.

Explanation: The bind request cannot be processed because another bind operation is already in progress.

User response: Complete or terminate the bind in progress and resubmit the bind request.

CCA3015N  The adapter specified is not valid.

Explanation: The adapter specified was not detected on the DB2 system.

User response: Specify an adapter that is available and resubmit the request.

CCA3016N  The nname value specified is not unique.

Explanation: The nname value specified is already being used by another NetBIOS application on the network.

User response: Specify a unique nname and retry the operation.

CCA3017N  The path specified for the file is not valid.

Explanation: An attempt was made to open the specified file, but the path specified is invalid or does not exist.

User response: Ensure that the path specified is valid and the path for the file exists.

CCA3018N  The user does not have sufficient authority to access the file.

Explanation: An attempt was made to access the requested file, but the user does not have the required authority to access the file.

User response: Ensure that the user has the required authority to access the file.

CCA3019N  The file name specified is a directory.

Explanation: An attempt to access the file specified failed because the name specified is a directory and not a file.

User response: Specify a valid file name and retry the operation.

CCA3020N  An attempt to access the specified file failed because of a share violation.

Explanation: An attempt to access the file specified failed because of a share violation. Another process may have the file opened in exclusive mode.

User response: The file is currently being accessed by another process in exclusive mode. Ensure that no other process is accessing the file and retry the operation or specify another file name.
CCA3021N An attempt to retrieve, add or remove variable variable-name from the DB2 Profile Registry failed with Return Code return-code.

Explanation: An attempt to retrieve, add or remove the indicated variable from the DB2 Profile Registry failed. The return code indicates the cause of the problem. The possible return codes are as follows:
- -2 The specified parameter is invalid
- -3 Insufficient memory to process the request
- -4 Variable not found in the registry
- -7 DB2 Profile Registry is not found on this DB2 system
- -8 Profile not found for the given instance
- -9 Profile not found for the given node
- -10 UNIX registry file lock time-out

User response: For return code:
- -2 Ensure that the parameter has been specified correctly.
- -3 Terminate other applications using large amounts of memory and retry the operation.
- -4 Ensure that the variable is set in the DB2 Profile Registry.
- -7 Ensure that the DB2 Profile Registry has been created.
- -8 Ensure that the profile has been created for the instance.
- -9 Ensure that the profile has been created for the node.
- -10 Ensure that the registry file is not locked by another process.

CCA3022C An attempt to retrieve the address of the function procedure-name from library library-name failed with Return code return-code.

Explanation: An attempt to retrieve the address of a function from the indicated library failed.

User response: Verify that the correct version of the library is being used. If the incorrect version is being used, install the correct version. If the problem persists, turn trace on and retry the steps that caused the error. If the problem reoccurs, save the trace information to a file and contact IBM Support with the following information:
- Problem description
- Message number
- Return code
- Trace file

CCA3023C An attempt to load library library-name failed with Return code return-code.

Explanation: An attempt to load the indicated library failed.

User response: Verify that the path in which the library resides is included in the library path. Also ensure that there is enough memory available to load the library. If the problem persists, turn trace on and retry the steps that caused the error. If the problem reoccurs, save the trace information to a file and contact IBM Support with the following information:
- Problem description
- Message number
- Return code
- Trace file

CCA3024C An attempt to unload library library-name failed with Return code return-code.

Explanation: An attempt to unload the indicated library failed.

User response: Turn trace on and retry the steps that caused the internal error. If the problem reoccurs, save the trace information to a file and contact IBM Support with the following information:
- Problem description
- Message number
- Return code
- Trace file

CCA3025N One or more of the IPX/SPX parameters specified is not valid.

Explanation: One or more of the input parameters is not valid. Following is a list of possible errors:
- One or more of the filesrer, objectname and ipx_socket parameters is NULL.
- Only the filesrer parameter or objectname parameter is set to "*".
- The filesrer and/or objectname parameters are not set to "*" for Windows and Solaris.
- The objectname value specified is not unique.
- The ipx_socket value specified is not unique.
- The ipx_socket value specified is not in the valid range.
- The DB2 system failed to attach to the filesrer specified.

User response: Verify the following:
- The filesrer, objectname and ipx_socket parameters are not NULL.
- If the value specified for filesrer is "*", the value for objectname must also be "*".
On Windows and Solaris, both fileserver and objectname must be "*".

The value specified for objectname, if not "*", is unique for all DB2 instances and IPX/SPX applications registered at the fileserver.

The value specified for ipx_socket is unique across all DB2 instances on the DB2 system.

The value specified for ipx_socket is within the valid range.

The fileserver specified exists and that it is up and running.

Correct all errors and retry the operation.

CCA3026N  No available NetBIOS adapters detected.

Explanation: A NetBIOS adapter was not detected on the DB2 system. The database cannot be cataloged.

User response: Catalog the database and node manually if an adapter is available on the DB2 system.

CCA3027N  The port number specified is out of range.

Explanation: The TCP/IP port number specified is out of range. The maximum value that can be specified for the port number is 65534.

User response: Specify a port number that does not exceed the maximum value and retry the operation.

CCA3028N  The DB2INSTANCE variable is not valid.

Explanation: The DB2INSTANCE environment variable is not set or is set to the Administration Server instance. The Configuration Assistant cannot run under the Administration Server Instance.

User response: Set the DB2INSTANCE variable to an instance other than the Administration Server instance.

CCA3029N  Updating of the ODBC data source settings failed.

Explanation: A request to update the settings of an ODBC data source failed. The error could be caused by an out of memory error, a disk full condition or a disk failure.

User response: Verify that the disk on which the DB2CLI.INI file resides is not full and that the disk is not damaged. In addition, if other applications are using large amounts of memory, terminate the applications and retry the operation.

CCA3030N  Values missing for configuring APPC.

Explanation: A request was made to catalog a database using APPC or to configure a server instance for APPC. The request could not be completed because one or more parameters were not specified.

User response: Ensure that all required parameters have been specified and retry the operation.

CCA3031N  The APPC stack has not been configured for the database selected.

Explanation: The database selected is using APPC for the database connection. However, the APPC stack has not been configured for the connection.

User response: Configure the APPC stack for the database selected.

CCA3051N  A protocol protocol interface failure has occurred with Return code return-code.

Explanation: The failure occurred while attempting to access the protocol interface.

User response: Verify that the protocol is operational.

CCA3052N  The specified item item-name was not found.

Explanation: The specified item name could not be found in the configuration data.

User response: Verify that you have specified the item name correctly.

CCA3053N  The ODBC DSN specified DSN-name is invalid.

Explanation: The ODBC DSN specified is an invalid name.

User response: Ensure that you are using valid characters for the ODBC DSN name.

CCA3054N  The ODBC DSN could not be registered.

Explanation: The ODBC DSN registration attempt failed.

User response: Verify that ODBC is installed properly and is functional.

CCA3055N  The specified item item-name already exists.

Explanation: The specified item name already exists in the configuration data.

User response: Verify that you have specified the item name correctly. Use a different item name or delete the old item and resubmit the request.
CCA3056N  The hostname `host-name` was not found.

Explanation:  The specified hostname could not be resolved on the network.

User response:  Ensure that the hostname, as specified, is correct and is a valid hostname on your network.

CCA3057N  The service name `service-name` was not found.

Explanation:  The specified service name was not found in the local services file.

User response:  Ensure that the service name, as specified, is correct and that there is a valid entry for that service name in your local services file.

CCA3058N  The local system object is not allowed to be removed.

Explanation:  The local system object appears if this is a server installation, and does not appear if this is a client installation. You have no direct control over the removal of this object because it has special properties that are required by the server installation type.

User response:  No action is required.

CCA3059N  The local system object is not allowed to be changed.

Explanation:  The local system object appears if this is a server installation, and does not appear if this is a client installation. You have no direct control over the changing of this object because it has special properties that are required by the server installation type.

User response:  No action is required.

CCA3060N  The selected system object is not allowed to be changed.

Explanation:  The selected system object is using communication protocol that is not supported by the DB2 Administration Tools.

User response:  No action is required.

CCA3061N  Incomplete server configuration.

Explanation:  The server configuration information contained in the server profile is missing data necessary to complete the requested operation. Refer to the db2diag log file for details.

User response:  Contact your system administrator to verify that the server configuration is correct.

CCA3062N  "Common" is a reserved data source name.

Explanation:  "Common" is a reserved data source name by DB2 CLI.

User response:  Re-enter another data source name.

CCA3063N  The specified service name and port number conflicts with existing values in the TCP/IP services file. Do you wish to overwrite the existing values in the services file?

Explanation:  The service name and port number entered by the user conflicts with existing values in the TCP/IP services file. The service name may already be used with a different port number, the port number may already be used with a different service name or both.

User response:  Click Yes to overwrite the existing values in the services file with the new values.

Click No to cancel the action and keep the existing values in the services file.

CCA3064N  The new data source name specified already exists.

Explanation:  A data source entry already exists with the same name and its content does not match the specification of the new entry. Therefore, it cannot be reused.

User response:  Use a different data source name.

CCA3065N  The requested operation is not available in offline (OFFLINE) mode.

Explanation:  An operation or task has been requested which is not valid or not applicable while the mode is offline (OFFLINE). The operation cannot proceed.

User response:  Change the mode from offline (OFFLINE) mode before retrying this operation.

CCA3066N  The requested operation is not available in remote (REMOTE) mode.

Explanation:  An operation or task has been requested which is not valid or not applicable while the mode is remote (REMOTE). The operation cannot proceed.

User response:  Change the mode from remote (REMOTE) mode before retrying this operation.
Chapter 51. CCA5000 - CCA5499

CCA5000N  The user ID specified is not valid.
Explanation:  The user ID specified does not exist.
User response:  Enter the correct user ID and resubmit the request.

CCA5001N  The password specified is incorrect.
Explanation:  The password specified for the user ID is incorrect.
User response:  Enter the correct password for the user ID and resubmit the request.

CCA5002N  The password for the user ID has expired.
Explanation:  The password for the user ID has expired and cannot be updated.
User response:  Contact your system administrator to have the password reset.

CCA5003N  The new password specified is not valid.
Explanation:  The new password specified is not valid.
User response:  Enter a valid password and resubmit the request.

CCA5004N  An unexpected error occurred.
Explanation:  An unexpected error occurred while attempting to update the password for the user ID specified. Additional information may have been written to the file db2pem.log in the instance directory.
User response:  Contact your system administrator for further assistance and provide the information from the file db2pem.log.

CCA5005N  The new password does not match the verify password.
Explanation:  The new password does not match the verify password.
User response:  Type the new password in both text boxes again.

CCA5006N  The port number specified is not valid.
Explanation:  The port number specified is out of range. It should be greater than zero and less than 65535.
Part 7. CIE Messages

This section contains the DB2 Text Search messages. The messages are listed in numeric sequence.
Chapter 52. CIE0000 - CIE0499

CIE0001I Operation completed successfully.
Explanation: No errors were encountered during the execution of this command.
User response: No action required.

CIE0002I The DB2 Text Search catalog and text indexes are at the latest release level for the database. The system has not been upgraded.
Explanation: The database version value in the SYSIBM.SYSDEFAULTS administrative view is set to the latest version. The database is up to date.
User response: No action required.

CIE0003I Index update started.
Explanation: Update processing has started for a text search index, because either a UPDATE INDEX command was executed, or an automatic update was performed according to the update frequency specified for the index. Depending on the number of documents, processing may take some time, but the index is still available for searches.
User response: No response is required.

CIE0004I Index update ended.
Explanation: Update processing has ended for a text search index.
User response: No response is required.

CIE0005I DB2 Text Search Index update statistics:
Total number of documents processed: number. Number of documents inserted: number. Number of documents updated: number. Number of documents deleted: number. Number of empty documents skipped successfully: number. Number of documents not indexed because of internal document errors: number. Number of documents processed in total: number.
Explanation: Update processing is complete. The statistics indicate the number of documents that were processed by DB2 Text Search.
User response: No action required.

CIE0006I DB2 Text Search Index update statistics:
Number of documents processed in this commit cycle: number. Number of documents inserted: number. Number of documents updated: number. Number of documents deleted: number. Number of empty documents not indexed because of internal document errors: number. Number of documents processed in total: number.
Explanation: One commit cycle is complete. The statistics indicate the number of documents processed in this commit cycle.
User response: No action required.

CIE0007I DB2 Text Search Index update statistics:
Number of documents processed in total is total-number-of-docs. Number of documents inserted is number-of-inserted-docs. Number of documents updated is number-of-updated-docs. Number of documents deleted is number-of-deleted-docs. Number empty documents skipped successfully is number-of-empty-docs. Number of documents resubmitted for indexing due to internal document errors is number-of-docs-resubmitted. Updated statistics for resubmitted documents:
Number of documents inserted is number-of-resubmitted-docs-inserted. Number of documents updated is number-of-resubmitted-docs-updated. Number of documents not indexed because of document errors is number-of-resubmitted-docs-not-indexed.
Explanation: Update processing is complete. The statistics indicate the number of documents that were processed by DB2 Text Search.
User response: No action required.

CIE0008I Index reorganization started.
Explanation: DB2 Text Search index reorganization has started.
The phase of reading and parsing documents has ended and a Text Search index reorganization is necessary.
User response: No response is required.
CIE0009I  Index reorganization ended.
Explanation: The DB2 Text Search index reorganization has ended.
User response: No response is required.

CIE0010I  Text Search Index update statistics:
Number of documents resubmitted for indexing due to internal document errors is number-of-docs-resubmitted.
Updated statistics for resubmitted documents: Number of documents inserted is number-of-resubmitted-docs-inserted, Number of documents updated is number-of-resubmitted-docs-updated, Number of documents not indexed because of document errors is number-of-resubmitted-docs-not-indexed.
Explanation: Update processing is complete for the resubmitted documents. The statistics indicate the number of documents that were processed by DB2 Text Search.
User response: No action required.

CIE0011I  Index build started.
Explanation: The DB2 Text Search index update build has started.
User response: No response is required.

CIE0012I  Index build ended.
Explanation: The DB2 Text Search index build operation has ended.
User response: No response is required.

CIE0013I  No dependent text-maintained table was found in pending mode.
Explanation: The RESET PENDING command executes a SET INTEGRITY statement for any dependent tables that manage full-text search. No such table was found.
User response: No action required.

CIE0016I  The text search server for partition partition-number on host host-name and port port-number is in started state.
Explanation: You can determine the status of the text search server by using the db2ts START FOR TEXT command with the STATUS option. This message is returned when a connection to the text search server cannot be established successfully.
You cannot perform text search queries or text index administration operations in the database.
User response: No user response is required.

CIE0017I  The text search server for partition partition-number on host host-name and port port-number is in stopped state.
Explanation: You can determine the status of the text search server by using the db2ts START FOR TEXT command with the STATUS option. This message is returned when a connection to the text search server cannot be established successfully.
You cannot perform text search queries or text index administration operations in the database.
User response: No action required.

CIE0018I  Search services are not active.
Explanation: DB2 Text Search services were found to be inactive when the db2ts START FOR TEXT command verified the status of the services.
User response: No action required.

CIE0019I  Search services are active.
Explanation: DB2 Text Search services were found to be active when the db2ts START FOR TEXT command verified the status of the services.
User response: No action required.

CIE0020I  DB2 Text Search index update statistics during a time-in-minutes minute interval:
Total number of documents processed is total-number-of-docs. The percentage completed is percentage-processed%.
Explanation: The statistics indicate the number of documents that were processed in this time interval.
User response: No action required.

CIE0021I  DB2 Text Search services on host host-name and port port-number are running successfully.
Explanation: A stand-alone text search server has been detected. For a stand-alone text search server setup, the initialization of DB2 Text Search server is done on a separate host or environment.
In this case, the db2ts START FOR TEXT command does not attempt to start a server but instead checks the status of the stand-alone text search server to report success.
User response: No user response is required.
A directory named directory-name already exists. richtextTool will create a symbolic link named link-name to that directory in order to reuse existing Outside In Technology library files.

**Explanation:** richtextTool will attempt to create a directory with the specified name. If that directory already exists, richtextTool will then create a symbolic link to that directory instead so that it can reuse existing Outside In Technology library files.

**User response:** No response is required.

The rich text feature has been successfully configured for use on DB2 Text Search Instance named instance-name.

**Explanation:** richtextTool has been run and has successfully enabled the rich text feature on the named DB2 Text Search instance.

**User response:** No response required.

DB2 Text Search instance server instance-server has been set to the default. Rich text is not supported.

**Explanation:** richtextTool has been run and has successfully disabled rich text support on the named DB2 Text Search instance.

DB2 Text Search is now running in default mode for the instance.

**User response:** No response is required.

Rich text support configuration has started for DB2 Text Search instance named instance-name.

**Explanation:** richtextTool has been called. Configuration for rich text support has started on the named DB2 Text Search instance.

**User response:** No response is required.

Default support configuration, no rich text, has started for DB2 Text Search instance instance-name.

**Explanation:** richtextTool has been called. Configuration for default support, no rich text, has started on the named DB2 Text Search instance.

**User response:** No response is required.

The Outside In Technology product library files have been setup for DB2 Text Search.

**Explanation:** The installation of the Outside In Technology product library files needs to be done prior to running richtextTool.

This only needs to be done once for each DB2 installation.

**User response:** For each instance that requires rich text support, login as the instance owner and run the 'richtextTool enable' command to enable rich text support for that instance.

Text search index schema-name.index-name already exists.

**Explanation:** The text search index that you specified already exists in this database.

**User response:** Check the name specified and the database you are using. Use the SYSIBM.SYSINDEXES view to see the existing text search indexes.

Instance services already active.

**Explanation:** A db2ts start command was issued but the instance services are already running.

**User response:** No further action required.

Some instance services already active.

**Explanation:** The services are already active, so you do not need to start them.

**User response:** No response is required.

Instance services already started.

**Explanation:** An attempt was made to start the text search instance services, but the text search instance services are already running.

**User response:** If you are simply trying to start the text search instance services, no further action is necessary.

If there were errors using DB2 Text Search that indicated that the text search services were not running, then attempt to stop and restart using the 'db2ts start for text' command.

Check the current system status and configuration. If you continue to get errors while starting the text search services, the following steps might be necessary:

- On UNIX, use the ipcs command to check the resources. Stop all applications, such as DB2 and DB2 Text Search. If further resources are listed, clean them up using ipcrm.
• In the case of multiple DB2 instances running on the system, ensure that the DB2 Text Search for each instance has been configured for a unique communication port.

CIE0205E  Instance services already stopped.
Explanation: An attempt was made to stop the text search instance services, but they are not running.
User response: If you are simply trying to stop the text search instance services, no further action is necessary.

If there were errors using DB2 Text Search that indicated that the text search services should be stopped and restarted, the following steps might be necessary:
• On UNIX, use the ipcs command to check the resources. Stop all applications, such as DB2 and DB2 Text Search. If further resources are listed, clean them up using ipcrm.
• In the case of multiple DB2 instances running on the system, ensure that the DB2 Text Search for each instance has been configured for a unique communication port.

CIE0206E  Environment variable variable-name not set.
Explanation: A required environment variable is not set.
User response: Check your environment, specify the required variable, and reissue the command.

CIE0207E  No help information available.
Explanation: No help information is available for the specified message identifier or command.
User response: Check that the message identifier was specified correctly. If the identifier was correct then there is no help information available using the 'db2ts help' or 'db2ts ?' commands. The DB2 Text Search documentation can be used for further help.

CIE0208E  DB2 Text Search Index update completed with number document errors.
Event view: schema-name.event-name.
Explanation: Document specific errors occurred in a DB2 Text Search Index update operation. Only documents without specific errors were indexed successfully. All document errors are written to the event table.
User response: Check the event view for more information about the document errors. Correct the errors and update the affected documents. Retry the DB2 Text Search Index update operation. Clean up the event log after the problems have been fixed. In some cases, errors may be written to the db2diag.log.

CIE0209I  A DB2 Text Search index with identifier text-search-id does not exist.
Explanation: The CLEANUP FOR TEXT operation has detected and removed inconsistent DB2 Text Search Index information.
The CREATE INDEX ... FOR TEXT command adds DB2 Text Search Index information to the database catalog and creates a text index properties file in the collection directory.

DB2 Text Search Index information is removed from both the database catalog and the collection directory with the DROP INDEX ... FOR TEXT or DISABLE DATABASE FOR TEXT command.
In some scenarios, like dropping and re-creating a database, without first dropping the text indexes, the catalog information is lost while the information in the collection directory persists. The CLEANUP command removes inconsistent DB2 Text Search Index information after such scenarios have occurred.
User response: No response is required. This message is for informational purposes.

CIE0210E  DB2 Text Search index cleanup completed with errors.
Explanation: Errors occurred in a DB2 Text Search index cleanup operation. Only indexes without specific errors were cleaned up successfully. All cleanup errors are written to the db2diag.log file.
User response: Check the db2diag.log for more information about the cleanup errors. Correct the errors and retry the DB2 Text Search cleanup operation.

CIE0211W  The CREATE INDEX FOR TEXT command with BACKUP option is not supported for DB2 Text Search indexes on tables in a partitioned database setup.
Explanation: The index without backup options was not created successfully.
User response: Errors generated while creating the index have been written to the db2diag.log file. Correct the errors and retry the CREATE INDEX FOR TEXT operation.

Explanation: The database is enabled for text search but some additional configuration steps need to be completed.
The reason code indicates which configuration step needs to be completed:
<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIE0302E</td>
<td>Directory directory-name does not exist.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>The directory which was specified does not exist on the file system.</td>
</tr>
<tr>
<td>User response:</td>
<td>Create the directory. Ensure that the instance owner is able access it. Then attempt the operation again.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>The internal representation of the key columns exceeds the maximum size.</td>
</tr>
<tr>
<td>User response:</td>
<td>Change the layout of the table before creating the index again. Try using smaller key columns, which will also improve performance.</td>
</tr>
<tr>
<td>CIE0304E</td>
<td>System function failed. Errno: error-number.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>A system error occurred that does not allow further processing.</td>
</tr>
<tr>
<td>User response:</td>
<td>Additional information can be found using the ERRNO information in the error message. On many operating systems, descriptions of ERRNO can be found in the C header file named errno.h.</td>
</tr>
<tr>
<td>CIE0305E</td>
<td>Feature not supported.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>This functionality is not supported by DB2 Text Search.</td>
</tr>
<tr>
<td>User response:</td>
<td>Examine the operation to determine the unsupported operation. Check if the operation might have violated any documented restrictions with text search indexes.</td>
</tr>
<tr>
<td>CIE0306E</td>
<td>Table schema-name.table-name has no primary key.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>An attempt was made to create an index on a table that does not have a primary key.</td>
</tr>
<tr>
<td>User response:</td>
<td>Call “db2 alter table” to ensure the existence of a primary key. Then try to create the index again.</td>
</tr>
</tbody>
</table>

Chapter 52. CIE0000 - CIE0499  401
CIE0313E  Column type type not supported.
Explanation: You have specified a column type that is not in the list of supported types.
User response: Ensure that the CREATE INDEX command uses only supported column types (for text column, attribute columns, user exit columns, and primary key columns). Make the appropriate changes to the command and try again. If the error persists, start a trace and also check db2diag.log. Report the error to your IBM service representative.

CIE0314E  UDF schema-name.function-name does not exist.
Explanation: The specified user-defined function does not exist in this database.
User response: Check the name specified for this user-defined function, or register the user-defined function in the database you are using.

CIE0315E  A NULL value has been passed to an internal user-defined function.
Explanation: DB2 has passed a NULL value to an internal user-defined function.
User response: First make sure the specified base table has a primary key. Change your select statement to avoid this problem. Switch on the trace function and pass the returned information to your IBM service representative.

CIE0316E  Text search index schema-name.index-name does not exist.
Explanation: The specified text search index does not exist in this database.
User response: Check the name specified and the database you are using. Use the SYSIBMTS.TSINDEXES view to see the existing text search indexes.

CIE0317E  The codepage conversion from source-codepage to target-codepage failed.
Explanation: The codepage conversion could not be performed because no adequate converter exists.
User response: Report the error to your IBM service representative.

CIE0318E  Object schema-name.object-name does not exist.
Explanation: The specified table does not exist in this database.
User response: Ensure the schema and table name exists in the database.

CIE0319E  Column column-name does not exist in schema-name.table-name.
Explanation: The specified column does not exist.
User response: Check the column name that you specified.

CIE0320E  Table space table-space-name does not exist.
Explanation: The specified table space does not exist in this database.
User response: Ensure the table space exists within the database.

CIE0321E  Table space table-space-name is not of type regular or large.
Explanation: The specified table space is not of type regular or large. An operation attempting to create a table in a system temporary or user temporary table space will fail.
User response: Reissue this command, specifying a table space that is regular or large type.

CIE0322W  Specified or default database already enabled for text.
Explanation: The database you specified is already enabled for DB2 Text Search.
User response: Check the database name that you specified.
Also check to see if the DB2DBDFT variable (which implies an implicit connection) has been set.

CIE0323E  Specified or default database not enabled for text.
Explanation: The database you specified is not enabled for DB2 Text Search.
User response: Check the database name you specified.

CIE0324E  The command failed because the user does not have CONTROL privilege.
Table name: schema-name.object-name.
User: user-id.
Explanation: You do not have the authority to use this command because it requires CONTROL authority. Only the owner of this table can use this command or grant access to use this command.
User response: Have the owner of the table provide
you with the required authorization.

CIE0325E The operation failed because the user does not have DBADM authority.

**Explanation:** You do not have the required authority to use this command because it requires database administration (DBADM) authority.

Only an administrator of this database can use this command.

**User response:** Obtain the required authorization from the security administrator.

CIE0326E Disabling the database failed because text search indexes are active in the database.

**Explanation:** A database cannot be disabled until all text search indexes are dropped.

At least one text search index exists in the specified or default database.

**User response:** See the SYSIBMTS.TSINDEXXES view for the existing text search indexes. Drop the existing indexes using the DROP INDEX command, or specify the FORCE option with the DISABLE DATABASE command.

CIE0327E The operation failed because the specified code page is not supported.

**Specified code page:** code-page.

**Explanation:** The code page that you specified is not supported.

**User response:** Specify a valid code page.

CIE0328E The operation failed because the specified language is not supported.

**Specified language:** language.

**Explanation:** The specified language is not supported.

**User response:** Specify a valid language.

CIE0329E The operation failed because the specified format is not supported.

**Specified format:** format.

**Explanation:** The specified format is not supported.

**User response:** Specify a valid format.

CIE0330E The invalid value value was specified for parameter parameter-name.

**Explanation:** The specified value for the parameter is invalid.

**User response:** Specify a valid value.

CIE0331E The operation failed because the format of the specified update frequency is invalid. Too many terms beginning with character were specified in the value for the update frequency.

**Explanation:** The syntax for the update frequency is not correct because too many terms beginning with character are specified for the index update frequency.

**User response:** Ensure that the DAY, HOUR, and MINUTE parameters are only specified once.

CIE0332E Incorrect command syntax.

**Explanation:** Unexpected end of command.

**User response:** Check the command syntax. Verify that you specified the required parameters.

CIE0333E The command failed because of an unexpected token. Unexpected token: token-name.

**Explanation:** The command syntax is incorrect.

**User response:** Check the command syntax and issue your command again.

CIE0334E The command failed because the following token is too long: token.

**Explanation:** The token is too long.

**User response:** Check the command syntax and verify that the token is reduced to the maximum size allowed.

CIE0335E The command failed because the following token occurs twice in the update frequency: token.

**Explanation:** You specified an incorrect syntax for the update frequency.

**User response:** Ensure that the DAY, HOUR, and MINUTE parameters are only specified once.

CIE0336E Invalid range range for parameter-name. Valid range: start - finish.

**Explanation:** The value should be in the allowed range.

**User response:** Update your command. Change the value to match those in the allowed range.

CIE0337E Library library cannot be loaded.

**Explanation:** A library could not be found.

**User response:** Check that the library is located in the library path and available. Start and stop DB2 to ensure that the current settings are used.
CIE0338E Cannot load function function-name from library library-name.

Explanation: A library entry point cannot be loaded.

User response: The library access appears to be invalid. Check that the library is only specified once.

CIE0339E Cannot find executable program program-name.

Explanation: The program file cannot be located or accessed.

User response: Check if the program file is located in the bin or adm directory of the DB2 server. The installation is corrupt if the file cannot be found.

CIE0340E Cannot start executable program program-name.

Explanation: The program cannot be started.

User response: Check if the program is located in the bin or adm directory of the DB2 server and that the appropriate libraries are installed. For further information, call the program manually on the server.

CIE0341E Update index errors. Event view: schema-name.event-name.

Explanation: Errors occurred in an update index operation. Any document errors are written to the event table.

User response: Check the event view for more information about the document errors. Clean up the event log after the problems have been fixed. In some cases, errors might be logged to db2diag.log.

CIE0342E Text index creation failed because data type data-type of column column-name is not supported.

Explanation: To use text search functionality with data in a given column of a table, you must create a text index on that column. Generally, you can create a text index on a column directly using the CREATE INDEX FOR TEXT command.

For some data types, such as user-defined types, it is not supported to create a text index directly against a column of one of those data types. You can still include data in columns of those unsupported data types in text searches, but some additional steps are required to create the text index. This message is returned when an attempt is made to create a text index directly against one of these unsupported data types.

User response: Respond to this error in one of the following ways:

1. Alter the data type of the specified column with the ALTER COLUMN SET DATA TYPE clause so that the data type of the specified column is one of the supported data types.
2. Run the CREATE INDEX FOR TEXT command again.
   - If the data type of the specified column is binary, specify the code page of the binary data in the column in the CREATE INDEX FOR TEXT command.
   - If the data type of the specified column is one of the unsupported data types, perform the following procedure:
     1. Create a conversion function that casts data from the unsupported data type to one of the supported data types.
     2. Specify the conversion function in the CREATE INDEX FOR TEXT command.

CIE0343E The path path not an absolute path.

Explanation: An absolute path should be specified.

User response: Check the path and use an absolute path in the command.

CIE0344E No corresponding text search index found.

Explanation: An attempt was made to search on a column without a text search index.

User response: Check the column you are searching on, or create a text search index on the column.

CIE0345N No text search index on column column-name, table table-name.

Explanation: A text search query on a table column failed because it has no valid and active text search index.

User response: Check the column you are searching on, or create a text search index on the column.

For example, a text search index gets invalidated if the underlying base table is dropped and recreated.

CIE0346E The ALTER INDEX command failed because no command options were specified.

Explanation: The ALTER INDEX command changes the characteristics of an index, such as the update frequency option. None of the characteristics that can be changed was specified.

User response: Specify at least one command option. Refer to the command syntax for all possible options.
CIE0347E  Conflict with existing text search index on same column.

Explanation:  A text search index defined on the same column already exists. Creating more than one text search index on a column is not supported.

User response:  If it is no longer needed, drop the existing text search index on the specified column using the DROP INDEX command. Then try reissuing this command.

CIE0348E  Attribute name missing.

Explanation:  Whenever a column expression is used in the attribute expression, an attribute name must be supplied. For example:

\[(C1+C2 \text{ AS myname})\]

User response:  Add "AS <attribute-name>" to the attribute expression.

CIE0349E  The CREATE INDEX command failed because a user exit column does not exist.

Explanation:  One or more of the user exit columns specified does not exist in the table the index is created on.

User response:  Correct the CREATE INDEX command.

CIE0350E  Invalid ATTRIBUTE expressions.

Explanation:  The column list in the attribute expression is not valid.

User response:  Correct the attribute column list in the CREATE INDEX command. Make sure the columns exist in the specified table. If a function is applied on a column, verify that it is used correctly.

CIE0351E  Attribute attribute of column column-name is not supported.

Explanation:  For attribute columns, the only supported data type is DOUBLE.

User response:  Make sure the attribute columns of the table for the text column to be indexed are of type DOUBLE.

It is possible to use cast operators in attribute column expressions. Refer to the SQL Reference for which data types can be cast to double.

CIE0352E  The invalid value value was specified for index configuration parameter parameter-name. A valid value is value.

Explanation:  The specified value for the configuration parameter is incorrect. For valid values of the parameters, refer to the command syntax.

User response:  Correct the index configuration parameter value in the CREATE INDEX command.

CIE0353E  The parameter parameter-name not a valid index configuration parameter.

Explanation:  The index configuration option is not known.

User response:  Check the CREATE INDEX command syntax. An example of a valid index configuration option is: COMMENT.

For example:

\[\text{index configuration}(\text{COMMENT 'my comment'})\]

CIE0354E  Function function-name failed. Error error.

Explanation:  A Windows function failed with the specified error code which does not allow further processing.

User response:  Use the specified Windows system error code to get detailed error information.

CIE0355E  Incorrectly specified update frequency frequency.

Explanation:  The syntax for the update frequency statement is not correct.

User response:  Correct the update frequency statement according to the syntax specification.

CIE0356E  Table space table-space-name has more than one partition, which is not allowed for this text search index.

Explanation:  For an index on a nickname, the table space of the administration tables must consist of only one partition.

User response:  Specify a table space in a single-partition database partition group for the administration tables.

CIE0357E  Conflicting administration operation in progress.

Explanation:  Another administration command is still running or terminated abnormally without releasing the command lock.

User response:  If there is no other administration command running (for the text search index), clear the lock manually using CLEAR COMMAND LOCKS. Be aware that someone else may be running the administration command holding the lock. Retry this command later.
<table>
<thead>
<tr>
<th>CIE0358E</th>
<th>Conflicting administration operation without FORCE option.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>Another administration command is still running or terminated abnormally without releasing the command lock.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>If there is no other administration command running, clear the lock manually using CLEAR COMMAND LOCKS. Be aware that someone else may be running the administration command holding the lock. Retry this command later. For a DISABLE DATABASE command, you may specify the FORCE option which stops all other commands on that database.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CIE0359E</th>
<th>Empty command text with procedure schema-name.procedure-name.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The indicated administration procedure was called with an invalid command text parameter.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Correct the command text parameter value of the administration procedure. For valid commands, refer to the DB2 Text Search documentation.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CIE0360E</th>
<th>Executable program program-name terminated abnormally.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>When executing a DB2 Text Search command, the executable was called, but terminated abnormally.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Verify that the executable was not terminated explicitly by user interaction (a signal). If it was not, start a trace, rerun the command and report the error to your IBM service representative.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CIE0361E</th>
<th>Parameter parameter-name missing.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>Internal error - when executing a DB2 Text Search command, an administration executable program was called with a missing parameter.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Try to change DB2 Text Search command parameters to avoid the problem. If the error persists, switch on the trace function and report the error to your IBM service representative.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CIE0362E</th>
<th>Query failed. Use simpler attribute expressions.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>DB2 Text Search creates a query based on the expressions in your command to select data for indexing from the database. The query failed because it was too complex.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Reduce the complexity of attribute expressions.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CIE0363E</th>
<th>Cannot specify UPDATE MINIMUM with schema-name.index-name text search index.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The text search index was created with the RECREATE INDEX ON UPDATE option. In this context, the UPDATE MINIMUM may not be specified. Update minimum is only effective if the index is updated incrementally.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>If you want to recreate the index each time an update is performed, remove the UPDATE MINIMUM setting. If you want to use UPDATE MINIMUM, do not specify RECREATE INDEX ON UPDATE.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CIE0364E</th>
<th>Inconsistent objects in specified or default database.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>At least one DB2 Text Search object is missing or corrupted. This can occur when DB2 Text Search database objects under schema SYSIBMTS are changed manually.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Issue a DISABLE DATABASE command using the FORCE option. You can then enable the database for text again by using the ENABLE DATABASE command. In this case, all text search indexes are lost.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CIE0365E</th>
<th>The user exit function (calltype=call-type) returned with code=error-code, reasoncode=reason-code.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The user exit function indicated a problem. Depending on the returned code, the index update was either terminated (in case of SQL_ERROR) or continued.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Check the document that was passed to the user exit function and the user exit function itself.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CIE0366E</th>
<th>Cannot load user exit library library-name. Reasoncode=reason-code.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The user exit library could not be loaded.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Make sure that the library can be dynamically loaded.</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>CIE0367E</th>
<th>User exit function function-name not found in library library-name. Reasoncode=reason-code.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The user exit library could be loaded, but it does not contain the specified function.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Make sure that the user exit library contains the specified function. For C++ implementations, check if the function is defined as extern &quot;C&quot;.</td>
</tr>
</tbody>
</table>
CIE0368E  User exit function returned invalid data for *name*. Invalid value=value, context information=context-info-1, context-info-2.

Explanation: The user exit function was called for a document and returned invalid data in the output structure.

User response: Ensure that valid data is return, if the return code is SQL_SUCCESS. Check the user exit function implementation.

CIE0369E  User exit column *column-name* not in the table the index is created on.

Explanation: The user exit columns specified in the CREATE INDEX command must be columns of the table the index is created on. Expressions are not allowed.

User response: Rerun the corrected CREATE INDEX command.

CIE0370E  User exit function *(calltype=call-type)* threw an exception.

Explanation: The user exit function has thrown a C++ exception. The index update was stopped.

User response: Correct the implementation of the user exit function.

CIE0371E  No row found in *name*."IBMSNAP_REGISTER" for source table *schema-name.table-name* and capture change table *schema-name.table-name*.

Explanation: No valid entry was found in the IBMSNAP_REGISTER table for the replication capture table characteristics specified in the CREATE INDEX command. A valid entry must contain the specified source table for the index in columns SOURCE_OWNER and SOURCE_NAME, with SOURCE_VIEW_QUAL=0 and the specified replication change table in columns PHYS_CHANGE_OWNER and PHYS_CHANGE_TABLE.

Possible causes:

The specified source table was not registered as a replication source for the replication capture table.

User response: Register the source table correctly for DB2 Replication, or specify a correct replication capture table for the source table.

CIE0372E  Invalid value value for replication-setting in *name*."IBMSNAP_REGISTER" for source table *schema-name.table-name* and capture change table *schema-name.table-name*.

Explanation: A replication setting found in the IBMSNAP REGISTER table is not allowed.

Possible causes:

1. The column CHG_UPD_TO_DEL_INS does not contain the value 'Y'.
2. The column CCD_CONDENSED contains the value 'Y'.

User response: When registering the source table for DB2 Replication, ensure that update operations are transformed into pairs of delete and insert operations. In addition, ensure that no condensed replication capture tables are used.

CIE0373E  Source table *schema-name.table-name* and capture change table *schema-name.table-name* are on different servers (*source-table-server* and *capture-change-table-server*).

Explanation: The specified source table and replication capture table must reside on the same server.

User response: This operation is not currently supported.

CIE0374E  Specified format not allowed for an XML column.

Explanation: For columns of type XML, only the 'XML' format is allowed.

User response: Specify format 'XML' or none.

CIE0375E  Alias *schema-name.alias-name* not allowed in replication clause.

Explanation: You are not allowed to specify an alias for a nickname in a replication clause.

User response: Specify the nickname instead of the alias, or create a new nickname for the remote table.

CIE0376E  Table in replication clause cannot be a view.

Explanation: A view cannot be specified in the replication clause.

User response: This operation is not currently supported.

CIE0377E  Only instance owner *user-id* can use that command.

Explanation: You do not have the required authority to use this command.

On UNIX systems: The DB2 instance owner is the authorization name specified in the db2icrt command.

On Windows: It is the authorization name running the DB2 instance service. It need not be the instance name.
User response: On UNIX, verify that the DB2 instance environment variable DB2INSTANCE is set correctly, or log in as the instance owner.

On Windows, check that the DB2 instance service, DB2 -<install-copy>-<instance-name>, associated with the current instance is using your account and password.

Option option not allowed for current connection.

Explanation: The usage of this option is allowed only when connecting to a DB2 z/OS system.

User response: Check that the connection options relate to a DB2 z/OS system, or reissue the current command without specifying the option.

The ALTER INDEX SET ACTIVE operation failed because an active index already exists on the specified column.

Explanation: You can activate a text search index using the db2ts ALTER INDEX command or the SYSPROC.SYSTS.Alter procedure with the SET ACTIVE clause. Multiple text search indexes can exist at the same time for a given column. However, only one text search index can be active on a column at any time.

User response:
- To switch the activation status between text indexes, use the ALTER INDEX command with SET ACTIVE enabled, but without specifying the UNILATERAL option.
- Issue the DROP INDEX command to remove other active text indexes if they are no longer required. Then reissue your command.

Invalid codepage codepage for non-binary text column.

Explanation: For text column data types that are not binary (that is, not BLOB and not strings-types FOR BIT DATA), DB2 always stores the data in the database codepage.

User response: Omit the codepage clause.

Minimum update frequency minimum-frequency is less than allowed-frequency minute limit.

Explanation: The update frequency defines a minimum time interval between two automatic index updates that is lower than the allowed value.

User response: Change the update frequency specification to keep to the indicated limit.

Note that the time interval between the latest entry on day 6 and the earliest entry on day 0 must also be considered.

NumberOfMatches not supported.

Explanation: This function is not supported by DB2 Text Search.

User response: Use either DB2 Net Search Extender or change your SQL query so that it can run without the NumberOfMatches function.

Operation took longer than limit of limit seconds.

Explanation: An administration operation did not succeed within the time limit. Possible reasons are workload problems while using text search instance services.

User response: Ensure that text search instance services are up and running.

Check db2diag.log for further information.

Text search index not created on schema-name.table-name because the table is not a base table.

Explanation: Text search indexes can be created only on a base table. Creating a text search index on non-base tables such as views or MQTs is not supported.

User response: Check whether the column belongs to a base table or not. Create the text search index on a base table column.

The text search index could not be created on the specified table because the table is a partitioned table. Table: schema-name.table-name.

Explanation: Text search indexes cannot be created on a partitioned table.

User response: Check if the table is partitioned. Create the text search index only on a table that is not partitioned.

Database already enabled for DB2 Net Search Extender.

Explanation: The specified or default database is already enabled for a different type of text search index. A database may be associated with only one text search component.

User response: If you do not want to use DB2 Net Search Extender, disable the database using the DB2TEXT DISABLE DATABASE command. After disabling the database for DB2 Net Search Extender, reissue the DB2 Text Search command.
CIE0387E Cannot use NULL values for required parameters.

Explanation: A DB2 Text Search administration procedure argument that is not optional received NULL as the specified value. NULLS can only be used for optional arguments.

User response: Correct the arguments specified for the procedure call.

CIE0388E Undefined client error.

Explanation: A processing error occurred when calling an internal function.

No details are available for this error.

User response: If the error persists, start a trace and check the db2diag.log. Report the error to your IBM service representative.

CIE0389E Internal function processing error.

Explanation: The method could not complete because it is not implemented or because the parameters specified make it impossible to execute.

User response: If the error persists, start a trace and check the db2diag.log. Report the error to your IBM service representative.

CIE0390E Invalid object referenced.

Explanation: A processing error occurred when calling an internal function. An invalid or uninitialized object was used or referenced.

User response: If the error persists, start a trace and check the db2diag.log. Report the error to your IBM service representative.

CIE0391E Code page source-codepage to target-codepage convert error.

Explanation: A processing error occurred when calling an internal function. A passed data could not be converted from the source code page to the target codepage.

User response: If the error persists, start a trace and check the db2diag.log. Report the error to your IBM service representative.

CIE0392E The following string needs data type data-type. String: string.

Explanation: A processing error occurred when calling an internal function.

User response: If the error persists, start a trace and check the db2diag.log. Report the error to your IBM service representative.

CIE0393E Required property property absent.

Explanation: A processing error occurred when calling an internal function.

User response: If the error persists, start a trace and check the db2diag.log. Report the error to your IBM service representative.

CIE0394E Property=property value=value failed as type=type.

Explanation: A processing error occurred when calling an internal function.

User response: If the error persists, start a trace and check the db2diag.log. Report the error to your IBM service representative.

CIE0395E No db2ts start command was issued.

Explanation: A command was called which requires text search instance services.

User response: Start the text search instance services with the db2ts start command.

CIE0396E DB2 Text Search Instance services not configured to support rich text.

Explanation: A command which requires rich text support for DB2 Text Search was called.

Rich text has not yet been configured for the DB2 Text Search Instance.

User response: Use richtextTool to enable and configure DB2 Text Search for rich text support.

CIE0397E Table column schema-name.table-name has no valid text search index.

Explanation: A text search query on a table column failed because it has no valid and active text search index.

User response: Ensure that the table column has a valid and active text search index before performing a text search query. If the table column has an invalid text search index, drop the text index and create a new one.

For example, a text search index gets invalidated if the underlying base table is dropped and recreated.

CIE0398N Text search index schema-name.index-name is not valid and cannot be used.

Explanation: Text index is invalid and cannot be updated or used.

User response: Drop and recreate the invalid text search index.
<table>
<thead>
<tr>
<th>CIE0399E</th>
<th>Failed to set integrity for the following table: schema-name.table-name.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong> The RESET PENDING command executes a SET INTEGRITY statement for dependent tables that are used to manage full text search. The command failed to complete successfully.</td>
<td></td>
</tr>
<tr>
<td><strong>User response:</strong> Run the SET INTEGRITY command for the failed table, with the IMMEDIATE CHECKED option enabled.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CIE0401E</th>
<th>A search system operation failed. Message id: message-id. Exception exception-part1: exception-part2 was thrown by file file-name line line-number.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>User response:</strong></td>
<td></td>
</tr>
</tbody>
</table>
2. Call the upgrade procedures in the following order:
   a. SYSPROC.SYSTS_UPGRADE_CATALOG
   b. SYSPROC.SYSTS_UPGRADE_INDEX.

**CIE0410E** Incorrect usage. Parameters are missing or incorrect parameters are given.

**CIE0411C** Cannot find the db2level command to detect if the instance is 32-bit or 64-bit.

**Explanation:** DB2 Text Search was not able to locate the db2level command. DB2 Text Search uses this command to determine if the DB2 instance is 32-bit or 64-bit.

**User response:** The db2level command binary is missing from the DB2 installation or cannot be found via search path for executable files. Resolve any DB2 installation or search path for executable files issues before retrying this operation.

**CIE0412E** DB2INSTANCE environment variable is not set.

**Explanation:** In order to configure rich text support, DB2 Text Search requires that the DB2INSTANCE environment variable is set.

**User response:** Set the DB2INSTANCE variable and retry richtextTool command.

**CIE0413E** The DB2 Text Search directory named directory-name does not exist.

**Explanation:** DB2 Text Search has not been configured correctly.

**User response:** Ensure that DB2 Text Search has been configured correctly.

**CIE0414E** The user named user-name does not have write permission to the directory named directory-name.

**Explanation:** richtextTool cannot create a directory to store unzipped files.

**User response:** Refer to documentation on user permissions needed to execute this tool.

**CIE0415C** DB2 Text Search cannot locate the DB2 installation.

**Explanation:** richtextTool cannot locate the DB2 installation.

**User response:** Resolve DB2 installation issues before retrying this operation.

**CIE0416E** Rich text support cannot be configured because DB2 Text Search is running.

**Explanation:** The rich text support cannot update configuration files while the DB2 Text Search server is running.

**User response:** Stop the DB2 Text Search server by issuing the command, db2ts stop for text.

Then retry configuring rich text support.

**CIE0417E** Cannot access directory named directory-name to locate Outside In Technology product zip files.

**Explanation:** richtextTool cannot access the directory given by the user.

**User response:** Check that the directory exists and you have read permission to that directory.

**CIE0418E** richtextTool failed to extract files from the zipfile named compressed-file-name.

**Explanation:** richtextTool cannot extract files to complete configuring rich text support.

**User response:** Examine and correct the error messages returned from the file unzipping operation.

Then retry running richtextTool.

**CIE0419E** File extraction failed. Cannot locate the file named file-name in the Outside In Technology product directory.

**Explanation:** richtextTool cannot find a required file in the Outside In Technology product directory.

**User response:** Review the output of the file extraction operation to correct any issues that might have caused unzip failure.

If rich text has not been configured for this copy of DB2, remove the directory named stellent under the directory named db2tss and retry running richtextTool.

**CIE0420E** Files are missing from a directory named directory-name.

**Explanation:** Files are missing from the named directory. A failure may have occurred during the run of the configuration tool. System configuration may be in an inconsistent state.

**User response:** Manually remove the named directory. Then rerun richtextTool to configure rich text support.
CIE0421E Cannot locate version version Outside In Technology product Html Export zip file named compressed-file-name.

Explanation: Cannot locate the proper version of the Outside In Technology product zip file.

User response: Refer to the error message to see which file is missing.

Obtain the missing file then retry running richtextTool.

CIE0422E Cannot locate version version Outside In Technology product Search Export zip file compressed-file-name.

Explanation: Cannot locate the proper version of the Outside In Technology product zip file.

User response: Refer to the error message to see which file is missing.

Obtain the missing file then retry running richtextTool.

CIE0423E richtextTool cannot access the file named file-name.

Explanation: richtextTool cannot access the file referenced in the error.

User response: Ensure the file exists and correct any access permission problems to that file.

CIE0424E The DB2 Text Search configuration directory named directory-name for the DB2 instance named instance-name does not exist.

Explanation: DB2 Text Search has not been correctly configured or is damaged.

User response: Retry configuring rich text support by running richtextTool.

CIE0425E DB2 Text Search cannot detect the DB2COPY name for the instance that is being configured.

Explanation: richtextTool cannot derive the DB2COPY name from DB2 instance name. DB2 may not have been setup correctly.

User response: Correct any DB2 setup problems before configuring rich text support.

CIE0427E richtextTool cannot restore a configuration file named file-name from an existing copy.

Explanation: richtextTool tried to restore an existing copy of a DB2 Text Search configuration file and hit an error.

User response: System configuration maybe in an inconsistent state.

Check if system is running out of disk space. Correct the problem, then rerun richtextTool.

CIE0428E The DB2 command line environment is not set.

Explanation: richtextTool requires the DB2 command line environment to detect the DB2 environment and to execute DB2 utilities when configuring rich text support.

richtextTool cannot configure DB2 Text Search rich text support without the DB2 command line environment setup.

User response: Run richtextTool in a DB2 command window.

CIE0429E The home directory of the DB2 instance named instance-name does not exist. The home directory is named directory-name.

Explanation: DB2 instance setup is incorrect.

User response: Correct any DB2 instance setup issues before running richtextTool.

CIE0430E richtextTool cannot be run because the contents of the file named file-name are incorrect.

Explanation: The contents of the referenced file are incorrect. System configuration might be in an inconsistent state.

User response: Check system resources. Check if the system is running out of disk space.

Correct the problem and rerun richtextTool.
A text search index can not be created because the sequence of primary key columns are not the same as base table.

**Explanation:**
The sequence of primary key columns should be kept the same as base table, otherwise a text search index can not be created.

**User response:**
Ensure that the column sequence in a compound primary key matches the column sequence in the base table.

The database directory cannot be found on the local file system.

**Explanation:**
The text search administration operation failed to find the local database directory.

**User response:**
Issue the 'db2 list database directory' command to confirm that the local database directory exists. Then try the operation again.

User user-id does not have the authority to update the DB2 Text Search index named index-schema-name.index-name.

**Explanation:**
Update text index requires one of the following:
- DATAACCESS authority
- CONTROL privilege on the table.

For more information about DB2 Text Search update, see the topic called “DB2 Text Search UPDATE INDEX command” in the DB2 Information Center.

**User response:**
Ensure that the user has the required authorization to perform the update text index operation.

User user-id does not have authority to create a text search index on the table schema-name.table-name.

**Explanation:**
'CREATE INDEX ... FOR TEXT' requires one of the following:
- DBADM authority
- CONTROL privilege on the table
- INDEX privilege on the table with either IMPLICIT_SCHEMA privilege on the database or CREATEINDEX privilege on the index schema.

For more information about DB2 Text Search create index, see the topic called "DB2 Text Search CREATE INDEX command" in the DB2 Information Center.

**User response:**
Ensure that the user has the required authority to perform the create text index operation.

User user-id does not have authority to enable the database database-name for DB2 Text Search.

**Explanation:**
Enabling text search for a database requires DBADM authority.

For more information about enabling DB2 Text Search, see the topic called "Enable Database for Text text search command” in the DB2 Information Center.

**User response:**
Ensure that the user has the required authorization to perform the ENABLE operation.

The instance owner does not have the authority to perform the text index command on database database-name.

**Explanation:**
The user attempted to run a text index command without the instance owner holding the appropriate authority.

The document exceeds the maximum size limit of max-size bytes.

**Explanation:**
DB2 Text Search can index documents up to the maximum size limit. The current document exceeds this limit and is not indexed.
CIE0447N • CIE0456E

User response:
1. Reduce the document size
2. Submit the modified document

CIE0447N Failed to retrieve the text-maintained dependent tables for
schema-name.object-name.

Explanation: The command executes a query to retrieve information from the text index administration tables. Querying the text index information failed.

User response: Ensure that the text index administration tables are accessible. For more information see the db2diag.log.

CIE0448N The backup configuration is inconsistent.

Explanation: The backup infrastructure was enabled for this text index, but the backup configuration is unavailable or inconsistent.

User response: Review and update the backup configuration according to the documentation for Text Search index backup options.

CIE0449N Text search index schema-name.index-name not enabled for Backup.

Explanation: Text search indexes can only be backed up when a backup mode is specified.

User response: To enable backup for a text search index, use the ALTER INDEX FOR TEXT operation to set the backup mode for the text search index to IMMEDIATE or DEFERRED.

CIE0450N The backup configuration for the text search index is invalid.

Explanation: The backup configuration refers to backup modes in the Text Search server. The configuration does not match with the supported backup modes.

User response: Update the backup configuration to match with a supported backup mode for the Text Search server. Review the Text Search server documentation for supported modes.

CIE0451E Lock cannot be cleared for text search index schema-name.index-name.

Explanation: The text index is locked for an operation on the database level.

User response: Repeat the CLEAR COMMANDLOCKS operation without specifying a text search index name.

CIE0452E User user-name does not have the authority to alter text search index schema-name.index-name.

Explanation: To alter a text search index, the authorization ID required one of the following:
- DBADM role on the database
- CONTROL role on the table
- ALTERIN privilege on the index

User response: Ensure that the SECADM assigns appropriate privileges.

CIE0453E User user-name does not have the authority to drop the text search index schema-name.index-name.

Explanation: To drop a text search index, the authorization ID requires one of the following roles or privilege:
- DBADM authority on the database
- CONTROL privilege on the table
- DROPIN privilege on the schema

User response: Ensure that the SECADM assigns appropriate privileges.

CIE0454E User user-name needs role role-name for this operation.

Explanation: Operations on text search indexes require the appropriate SYSTS_ADM, SYSTS_MGR or SYSTS_USR roles.

User response: Ensure that the SECADM assigns the appropriate role.

CIE0455E Start operation for a stand-alone text search server setup has to be executed separately.

Explanation: When using a stand-alone text search server setup, an operation like starting a server has to be executed in the stand-alone text search server environment using the startup script. The db2ts utility from the DB2 instance environment cannot be used to start the stand-alone text search server.

You can use the db2ts utility to check the text search server status. Ensure that the text search server for the DB2 instance is registered by issuing SYSTS_CONFIGURE for a text search enabled database.

User response: Run the following script to successfully start the text search server:
- /bin/startup.sh (Linux or Unix platforms)
- \bin\startup.bat (Windows platform)
Expected values for DB2 Text Search defaults are not found.

Explanation: Text search defaults are setup in the SYSIBM.TSDEFAULTS view. These values are typically added when enabling a database for text search and subsequent configuration steps such as during execution of the SYSTS_CONFIGURE procedure.

User response: Ensure that database level defaults for text search are setup correctly by successfully issuing the ENABLE operation and the SYSTS_CONFIGURE procedure for a text search enabled database.

The specified administration option option cannot be used in this setup.

Explanation: Some options for administrative operations are supported only in certain product environments.

User response: Ensure that only the supported options for the instance type or database are specified in the command.

Check the DB2 instance type and ensure that the used options apply to it.

Retry the operation after removing or changing the option so that it applies to your setup.

Data preparation constructor constructor-name is invalid

Explanation: There is no constructor configured with this name, or there is no value assigned.

User response: Ensure that the configuration for data preparation is valid in SYSIBM.TSDEFAULTS. Use the DATAPREP: prefix to define the constructor.

Parallel index update errors across multiple database partitions.

Explanation: When updating text search indexes in a partitioned database environment, the index update operation runs on each relevant database partition in parallel. Errors occurred on one or more database partitions.

User response:
1. Ensure the database has been activated after the DB2 instance started.
2. Check the event view and db2diag.log file for more information about the errors. You might need to cleanup any remaining locks for the text search index using the CLEAR COMMAND LOCKS command.
3. Correct the errors and retry the DB2 Text Search update index operation.
Chapter 53. CIE0500 - CIE0999

CIE0701E Internal error. Location: location-1, location-2.

Explanation: An internal processing error that does not allow further processing occurred.

User response: Try starting and stopping the text search instance services, as well as DB2. If the error persists, start a trace and also check db2diag.log.

CIE0702E Memory allocation error.

Explanation: The system has run out of memory.

User response: Increase the available memory size for the user or stop other processes that are running in parallel.

CIE0703E Error using shared system resources.

Explanation: A request to share or access system resources, such as shared memory or semaphores, cannot be fulfilled.

User response: Check the current system status and configuration. On UNIX, use the ipcs command to check the resources. Stop all applications, such as DB2 and DB2 Text Search. If further resources are listed, clean them up using ipcrm.

CIE0705E Instance services error.

Explanation: An instance services error occurred.

User response: Check db2diag.log for further information, or clean up your shared resources. Also see CIE0703.

CIE0706E Instance services could not be stopped.

Explanation: The db2ts stop command has not stopped the instance services and there are still processes running.

User response: To recover from this error state, reissue the stop command after allowing any text search administration operations running in the background to complete.

In the case of administration commands that have terminated abnormally (or that you want to stop), clear the lock manually using CLEAR COMMAND LOCKS.

If there are no signs of other administration operations running, or if the stop command still does not work, try restarting the instance services and then issue a stop command. As a last resort, stop DB2 and all applications, and then clean up system resources.

CIE0707E Contacting instance services timed out.

Explanation: A timeout occurred when contacting the text search services. Possible reasons are:

1. The DB2 Text Search instance is not configured properly.
2. Rich text feature was not disabled before the upgrade.
3. Network issues.

User response:
1. Verify that DB2 Text Search is configured properly.
2. Verify that rich text support is configured properly.
3. Ensure that the network communication is working.

CIE0708E An error occurred while opening the following Windows service: service-name.

Error that was returned: error.

Explanation: The specified service cannot be found on the Windows system.

User response: Check if the specified service is installed on the Windows system. Use the specified Windows system error code to get detailed error information.

CIE0709E Cannot find DB2 instance profile path.

Explanation: A function to obtain the DB2 instance profile path failed.

User response: Check the DB2 instance configuration. On Windows, try to create a DB2 instance without specifying the instance profile path information and retry the command.

CIE0710E Administration table space text-index-table-space is not defined in the same database partition group as the table space of schema-name.object-name.

Database partition group: database-partition-group.

Explanation: The table space of the administration tables must be distributed over different partitions in exactly the same way as the table containing the text column to be indexed.

The system checks whether the specified table space is defined in the same database partition group.

User response: Specify a table space that is defined in the same partition group as the table containing the text column to be indexed.
CIE0711E  Invalid operation on log table

Explanation: The log table keeps track of operations executed on the table containing the indexed text column. This table contains an invalid value due to manual changes made to this table.

User response: Check the log table, and delete or correct the invalid entry.

CIE0712E  The table named schema-name.table-name contains an incorrect syntax expression in the column named column-name.

Explanation: There is an error in the expression list in the specified text column.

User response: Check the delimiter Begin and End pairs.

CIE0713E  Length of index properties length exceeds max. maximum-allowed-length.

Explanation: The total length of index properties exceeds the maximum size.

User response: Report the error to your IBM service representative.

CIE0714E  Setting environment variable environment-variable failed.

Explanation: Setting the specified environment variable failed.

User response: Report the error to your IBM service representative.

CIE0715E  Call to function-name: rc=return-code, SQLCODE=sqlcode.

Explanation: An internal processing error occurred when calling an internal function.

User response: If the error persists, start a trace and check the db2diag.log. Report the error to your IBM service representative.

CIE0716E  Error creating shared memory.

Explanation: The shared memory resource could not be created due to a previous error or a permission problem.

User response: Check db2diag.log for further information, or clean up your shared resources. Also see error CIE0703.

CIE0717E  Value for parameter parameter-name too long.

Explanation: The value exceeds the allowable maximum size.

User response: Check the maximum size. Correct the parameter to be within limits.

CIE0718E  Log table schema-name.table-name will be modified in next UPDATE.

Explanation: When starting an incremental index update, a time stamp is created. This serves as a threshold for processing change records. Changes occurring concurrently to the incremental update are processed during the next update.

In certain situations, changes in transactions may be uncommitted at the time the update starts, but are committed while the index update is performed, which can lead to inconsistencies.

To avoid inconsistent situations of this kind, the change records prior to the threshold time stamp are not deleted from the log table, even if they have been partially processed.

During the next incremental update, the changes will be re-applied to the index. In case of delete operations, this can lead to warning messages in the log table indicating that the document was already deleted.

User response: If CIE00718 errors frequently occur, consider dropping and re-creating the index with a modified time stamp threshold for incremental index update.

For example:

```
CREATE INDEX ... 
    INDEX CONFIGURATION(UPDATEDELEY 30)
```

This means that processing during an incremental update only changes records older than 30 seconds, and avoids interference with concurrent change transactions of less than 30 seconds.

CIE0719E  Target database system database-system-name not supported.

Explanation: You tried to execute a command with a connection to a database system that is not supported by DB2 Text Search.

User response: Check your environment and ensure that the DB2 Text Search is used against a supported database.

CIE0720E  Cannot find type or version info for server server-name.

Explanation: The type and version information for the server could not be found in the DB2 catalog view 'SERVERS'.
**User response:** Make sure that the DB2 federated environment is set up correctly.

**CIE0721E**  
**Signal** signal caught.

**Explanation:** The program received a signal.

**User response:** If you did not interrupt the program, contact your IBM service representative.

**CIE0722E**  
**Corrupted instance services input file** file-name.

**Explanation:** The file containing index information is corrupted.

**User response:** For obvious problems caused by manual editing of the file, use your system editor and try to correct the problem. You may have truncated an entry, or deleted the end-of-line character.

If this does not restore the file content, try the following:

- Call command 'db2ts stop for text' to stop the instance services
- Delete or rename the corrupted file
- Call command 'db2ts start for text' to re-start the services
- Use command 'db2ts cleanup for text' to recreate the file based on the catalog information of all databases for a DB2 instance.

**CIE0723E**  
**Windows Exception** exception caught.

**Explanation:** The program received a Windows exception.

**User response:** If you did not interrupt the program, contact your IBM service representative.

**CIE0724E**  
**Exception** exception, address=address, flags=flag.

**Explanation:** The program received a Windows exception.

**User response:** If you did not interrupt the program, contact your IBM service representative.

**CIE0725E**  
**DB2 Text Search is not supported in a multiple partition database environment.**

**Explanation:** A text search index can be created only on DB2 configurations with a single partition.

**User response:** Ensure that the DB2 instance is not configured for with multiple database partitions.

**CIE0726E**  
**JDK_PATH setting is incorrect.**

**Explanation:** DB2 Text Search requires use of the Java Runtime Environment (JRE) that is part of the DB2 installation.

An error has occurred in finding the JRE due to a problem with the JDK_PATH value.

**User response:** Ensure that DB2 was installed successfully.

Check the value of JDK_PATH, ensure it is pointing to the directory where the JRE was installed and that the JRE is accessible.

The command 'db2 get dbm cfg' may be used to verify the JDK_PATH setting.

**CIE0727E**  
**Java classpath not found.**

**Explanation:** A directory in the Java classpath for supporting DB2 Text Search was not found.

**User response:** Check the DB2 installation. Ensure that the DB2 Text Search option was selected and that the installation completed successfully.

**CIE0728E**  
**Cannot close file** file-name.

**Explanation:** The file specified cannot be closed.

**User response:** Check if the file can be accessed.

Also check if there is enough free space on the system.

**CIE0729E**  
**Cannot copy file** file-name-1 to file-name-2.

**Explanation:** The first file cannot be copied to the second file.

**User response:** Check if the second file already exists and is writable.

Also check if there is enough free space on the system.

**CIE0730E**  
**Cannot remove file** file-name.

**Explanation:** The specified file cannot be removed from the system.

**User response:** Check if the file can be accessed.

**CIE0731E**  
**Failed to write on file** file-name.

**Explanation:** The file specified is not writable.

**User response:** Check if the file can be accessed.

Also check if there is enough free space on the system.
CIE0732E  Line line daemon index entry parsing error.

Explanation: The daemon file ciedem.dat is corrupted. The erroneous line is shown.

User response:
1. Rename the file (Ensure that there is no file ciedem.dat in the instance directory.)
2. Stop the instance services with the following command:
   db2ts stop for text
3. Start the instance services with the following command:
   db2ts start for text
4. Re-create the daemon file: db2ts cleanup for text
   (This may take some time, because all databases are searched for index information.) In case of problems, contact your IBM service representative.


Explanation: The daemon file ciedem.dat is corrupted. The value for a DB2 partition is not numeric.

User response:
1. Rename the file (Ensure that there is no file ciedem.dat in the instance directory.)
2. Stop the instance services with the following command:
   db2ts stop for text
3. Start the instance services with the following command:
   db2ts start for text
4. Re-create the daemon file with the following command:
   db2ts cleanup for text
   (This may take some time, because all databases are searched for index information.) In case of problems, contact your IBM service representative.

CIE0734E  number index cleanup errors.

Explanation: The specified number of errors occurred during cleanup processing.

User response:
1. Inspect the db2diag.log to determine what kind of errors occurred.
2. Reissue the command after correcting the cause of the error.

CIE0735E  number of number collections could not be deleted during this operation.

Explanation: During the DROP or DISABLE command, some collections of the text search engine could not be dropped.

User response: Ensure that the text search instance services are up and running.

If you working in a partitioned database, you need to check all servers. If they are running, try to stop and start those servers again. Check db2diag.log for details.

CIE0736E  Cannot delete collection collection-name from text search index schema-name.index-name.

Explanation: DB2 Text Search could not open the specified file.

Reason codes:
11   The file could not be opened for read access.
12   The file could not be opened for write access. It is expected to exist.
22   The file could not be opened for write access. It must not exist.
32   The file could not be opened for write access or could not be deleted.

User response: Verify that the path of the specified file exists.

Verify that the path and file permissions allow the file to be opened as required for the reason code specified.


Explanation: DB2 Text Search could not open the specified file.

Reason codes:
11   The file could not be opened for read access.
12   The file could not be opened for write access.
22   The file could not be opened for write access. It is expected to exist.
32   The file could not be opened for write access or could not be deleted.

User response: Verify that the path of the specified file exists.

Verify that the path and file permissions allow the file to be opened as required for the reason code specified.

CIE0738E  Cannot read nodes configuration file file-name.

Explanation: The specified file cannot be read. It is probably corrupted.

User response: Verify that the file contents comply with the format of the nodes configuration file. If this is not the case, correct the file accordingly.

CIE0739E  Error in nodes config file file-name.

Reason code: reason-code.

Explanation: The content of the specified file is not consistent.
Reason codes are interpreted as follows:

1
The required file entry specifying the node on which the instance services are running is missing.

2
The file contains multiple file entries specifying the node on which the instance services are running. Only one is required.

User response: Check the file contents and correct the file according to the reason code.

CIE0740E Nodes config file file-name needs entry for node database-partition.
Explanation: The file specified is not consistent. There is at least one node entry missing.
User response: Adapt the nodes configuration file and verify that it is in sync with the db2nodes.cfg file.

CIE0741E Unsupported command command-name with schema-name.procedure-name procedure.
Explanation: The command specified is not supported in conjunction with the administration procedure.
User response: Use the db2ts executable to execute the command.

CIE0742E No nodegroup information for table space table-space, table schema schema-name, table name table-name, node group name: database-partition-group-name.

CIE0743E DB2 Installation copy for instance instance was not found.
Explanation: The DB2 installation copy to which the given instance belongs could not be found.
User response: Check the DB2 Installation. Please ensure that the following:
1. The DB2 Text Search option was selected and the installation completed successfully.
2. Verify that the instance exists by opening a DB2 CLP Window for each DB2 installation copy and executing the 'DB2LIST.EXE' command. If the instance exists then it will be listed in one of the DB2 CLP Windows.

User response: Check the DB2 installation. Ensure that the DB2 Text Search option was selected and that the installation completed successfully.

Explanation: Authentication failure occurred during a text search administration operation or a text search query. The reason code provides more information on the cause for the failure:
Reason Code:
1
Invalid token
2
File not found or unexpected file permissions
3
A system call for executing a process failed
4
A file system call failure
5
A file system call failure
6
Failure spawning a process
7
Memory allocation failure
User response: Check the DB2 installation. Ensure that the DB2 Text Search option was selected and that the installation completed successfully.

Stop and restart DB2 Text Search instance services.
Consider running the tool for generating the authentication token as the authorized user.

CIE0747E  Timeout starting the text search server.
Explanation: The startup of text search instance services took much longer than normal.
User response: If there were errors using DB2 Text Search that indicated that the text search services should be stopped and restarted, the following steps might be necessary:
• On UNIX, use the ipcs command to check the resources. Stop all applications, such as DB2 and DB2 Text Search. If further resources are listed, clean them up using ipcrm.
• Check the configuration of DB2 Text Search.

CIE0748E  Shared memory not available.
Explanation: The shared memory resource could not be accessed due to a previous error or permission problem.
User response: Ensure that the text search instance services were started successfully. Check db2diag.log for further information, or clean up your shared resources.
Stop and restart text search instance services.

CIE0749E  Could not delete collection directory.
Explanation: During the execution of the DISABLE command, the collection directory for text search indexes could not be removed.
User response: By default, the name of the subdirectory is system generated and is under the db2collections subdirectory in the database path, DBPATH, used by the database. The db2collections directory is created during the ENABLE command and deleted when the database is disabled for text search.

CIE0750E  Command failed. Database concurrently associated with NSE.
Explanation: Only one type of text search index may be associated with a database at any given time. A database can use either DB2 Text Search or DB2 Net Search Extender for text search indexes, but not both concurrently.
User response: If you do not want to use DB2 Net Search Extender, disable the database using the DB2TEXT DISABLE DATABASE command. If you would rather use DB2 Net Search Extender, try this command again after disabling the database for DB2 Text Search.

CIE0751E  Unexpected condition detected.
Explanation: A processing error occurred when calling an internal function. An unexpected condition was detected. Operation could not complete.
User response: If the error persists, start a trace and check the db2diag.log. Report the error to your IBM service representative.

CIE0752E  Mutex error. Details: details.
Explanation: An error occurred when a mutex function was called.
User response: If the error is persistent, turn on the trace for further error determination.

CIE0753E  Conditional variable error. Details: details.
Explanation: An error occurred when a conditional variable was called.
User response: If the error is persistent, turn on the trace for further error determination.

CIE0754E  Thread error. Details: details.
Explanation: An error occurred when a thread function was called.
User response: If the error is persistent, turn on the trace for further error determination.

CIE0755E  Communication failure.
Explanation: A processing error occurred when calling an internal function. The communication layer reported a failure without throwing an exception.
User response: If the error persists, start a trace and check the db2diag.log. Report the error to your IBM service representative.

CIE0756E  Connect failed on host host-name and port port-number.
Explanation: The connection to the Text Search server can fail for various reasons, including the following:
• The DB2 Text Search server is not started.
• Mismatch in the DB2 Text Search configuration for the DB2 instance and the database in which the operation is executed.
• The DB2 Text Search server for the DB2 instance is either not configured or configured incorrectly.
• Port conflict or network communication issues.
User response: Perform the following troubleshooting steps:
1. Start the DB2 Text Search instance services.
2. Ensure that the text search configuration for the text search enabled database matches the configuration for the DB2 instance. For a physical database partitioned environment, the SYSIBM.TSSERVERS administrative view must always include the actual host name.
   a. Update the SYSIBM.TSSERVERS view with the Text Search server configuration data.
   b. Call the SYSPROC.SYSTS_CONFIGURE procedure.
   c. Issue the FLUSH PACKAGE CACHE DYNAMIC command to remove old data from the database cache.

3. Use the configTool to check that the integrated or stand-alone text search server is correctly configured for the DB2 instance.

4. Ensure that the correct communication port is specified, and that if multiple DB2 instances are running on the same system, the Text Search server for each instance has been configured to use a unique communication port. Verify proper function of the network connection.

---

**CIE0757E**  
Receive failed on host named host-name and port port-number.

**Explanation:** DB2 Text Search instance services have detected one or more communication errors.

A receive error occurred while sending a search request to the named host and port.

**User response:** Check the DB2 Text Search configuration.

Ensure that the communication port specified is correct. If the error persists, start a DB2 trace and check the db2diag.log. Contact IBM software support for further assistance.

---

**CIE0758E**  
Send failed on host named host-machine-name and port port-number.

**Explanation:** DB2 Text Search instance services have detected one or more communication errors.

A send error occurred while sending a search request to the named host and port.

**User response:** Check the DB2 Text Search configuration.

Ensure that the communication port specified is correct. If the error persists, start a DB2 trace and check the db2diag.log. Contact IBM software support for further assistance.

---

**CIE0759E**  
Communications timeout on host named host-machine-name and port port-number.

**Explanation:** DB2 Text Search instance services have detected one or more communication errors.

A request on the named host and port timed out.

**User response:** Check the DB2 Text Search configuration.

Ensure that the communication port specified is correct. If the error persists, start a DB2 trace and check the db2diag.log. Contact IBM software support for further assistance.

---

**CIE0760E**  
Protocol error.

**Explanation:** A processing error occurred when calling an internal function. A protocol error was encountered while processing a text search administration operation or a text search query.

**User response:** If the error persists, start a trace and check the db2diag.log. Report the error to your IBM service representative.

---

**CIE0761E**  
Authentication failure.

**Explanation:** Authentication failed during a text search administration operation or a text search query.

**User response:** Ensure correct configuration and that the operation is being requested using the text search instance services associated with the DB2.

If the error persists, start a trace and check the db2diag.log. Report the error to your IBM service representative.

---

**CIE0762E**  
Application error.

**Explanation:** A processing error occurred when calling an internal function. Server application error occurred while processing a text search administration operation or a text search query.

**User response:** If the error persists, start a trace and check the db2diag.log. Report the error to your IBM service representative.

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**CIE0763E**  
Parse error at host host-name on port port-number.

**Explanation:** A processing error occurred when calling an internal function. A parse error occurred processing a response to a request on the named host and port.

**User response:** If the error persists, start a trace and check the db2diag.log. Report the error to your IBM service representative.
CIE0765E • CIE0775E

CIE0765E Unknown communication error.
Explanation: A processing error occurred when calling an internal function.
User response: If the error persists, start a trace and check the db2diag.log. Report the error to your IBM service representative.

CIE0766E Invalid search client state.
Explanation: A processing error occurred when calling an internal function.
User response: If the error persists, start a trace and check the db2diag.log. Report the error to your IBM service representative.

CIE0767E Invalid data data.
Explanation: A processing error occurred when calling an internal function. A Base64-encoded string contains invalid data.
User response: If the error persists, start a trace and check the db2diag.log. Report the error to your IBM service representative.

CIE0768E String string not aligned.
Explanation: The Base64-encoded string is either not aligned at a 4 character boundary, or not padded properly.
User response: If the error persists, start a trace and check the db2diag.log. Report the error to your IBM service representative.

CIE0769E Buffer size size too small.
Explanation: A processing error occurred when calling an internal function due to a small buffer size.
User response: If the error persists, start a trace and check the db2diag.log. Report the error to your IBM service representative.

CIE0770E method-name memory allocation failed.
Explanation: A processing error occurred when calling an internal function. Unable to allocate memory in the named method.
User response: If the error persists, start a trace and check the db2diag.log. Report the error to your IBM service representative.

CIE0771E The DB2 Text Search services might not be active.
Explanation: The DB2 Text Search services are not accessible. The most probable reason is the services have not been started yet.

User response: To start the DB2 Text Search services, execute the following command:
db2ts start for text

CIE0772E The DB2 Text Search services are in an inconsistent state and need to be restarted.
Explanation: The DB2 Text Search services are in an inconsistent state, it is necessary to restart the services.
User response: To bring DB2 Text Search services into a consistent state, issue the following commands:
db2ts stop for text
db2ts start for text

CIE0773E The text search authentication token is not valid.
Explanation: The DB2 Text Search authentication token is invalid and must be regenerated.
User response: To generate a valid authentication token, issue the following command:
configTool generateToken

CIE0774E The DB2 Text Search configuration could not be found. More diagnostic information is available in the db2diag log files.
Explanation: A failure occurred while attempting to access the DB2 Text Search configuration parameters.
User response: Respond to this error in one or more of the following ways:
• Refer to the db2diag log files for more details about this error.
• To view the DB2 Text Search configuration parameters, issue the following command:
  configTool printAll

CIE0775E The DB2 Text Search configuration parameters could not be read from the configuration file. More diagnostic information is available in the db2diag log files.
Explanation: A failure occurred while attempting to read the DB2 Text Search configuration parameters.
User response: Respond to this error in one or more of the following ways:
• Refer to the db2diag log files for more details about this error.
• Make sure the tmp subdirectory in the DB2 instance directory is available and has read and write permissions for the instance owner.
CIE0776E  Restore failed for text search index

    schema-name.index-name.

Explanation: A failure occurred while attempting to restore the DB2 Text Search index.

The most common reasons are:
1. The text search index is not configured for backup.
2. The restore settings in the text search backup configuration do not match with a supported restore mode in the Text Search Server.

User response: See the db2diag.log for more details about the error.

1. If the text search index is not configured for backup, enable a backup mode through the ALTER INDEX FOR TEXT operation to enable subsequent restores.
2. If the restore settings in the text search backup configuration are invalid, update the configuration to match with a supported restore mode in the Text Search server.

CIE0777E  Failed to schedule the text search task.

    Ensure the DB2 administrative task scheduler is properly setup.

Explanation: A failure occurred while attempting to add the Text Search task in the DB2 scheduler.

User response: Use the following instructions to verify the setup of the DB2 scheduler. Ensure:

- the DB2_ATS_ENABLE registry variable is enabled
- the SYSTOOLSPACE table space is available in the database
- the database is activated

Repeat the text search index operation to add the task in the scheduler.

CIE0778E  Schedule with taskname task-name already exists.

Explanation: A scheduler task with this taskname already exists. Schedule tasknames for text indexes are generated using the unique text index identifier, however, it is possible that an independently created manual schedule taskname causes a conflict.

User response: Repeat the operation, this results in a new index identifier and thus in a new schedule taskname. If the error persists, make sure that the TSSCHED_ prefix is reserved for the system-generated text index schedule tasknames.

CIE0779E  Error processing DB2 Text Search server configuration.

Explanation: A failure occurred while attempting to process the DB2 Text Search configuration parameters.

User response: Check the validity of the information added during or after the enablement of the database for text search in the SYSIBMTS.TSSERVERS administrative view like host, port or token.

Update the parameters that appear invalid by issuing the SYSTS_CONFIGURE procedure.

CIE0780E  Cannot create collection collection-name for text search index

    schema-name.index-name.

Explanation: An error occurred while creating a collection for the text search index. Creating an index in a partitioned database environment might create multiple collections.

It is essential that all collections be created successfully for the CREATE INDEX operation to be successful.

User response: Check read and write permissions for the directories where the collections are being created. Verify the following:

- The defaultDataDirectory parameter is printed by configTool. Ensure that it is accessible to the user starting the text search server.
- Make sure there is sufficient disk space for the index being created.

See the db2diag.log for more details about this error.

CIE0781E  DB2 Text Search is not supported in a DB2 pureScale environment.

Explanation: DB2 Text Search is not supported in a DB2 pureScale environment.

User response: Reconfigure DB2 Text Search.

CIE0782E  Incorrect number of active DB2 Text Search servers.

Explanation: You are receiving this error due to the following inconsistency in the SYSIBMTS.TSSERVERS view:

- There are no rows in SYSIBMTS.TSSERVERS view.
- More than one row has SERVERSTATUS set to indicate an active server.

User response: Ensure that there is only one entry for an active text search server in the SYSIBMTS.TSSERVERS view.

Chapter 53. CIE0500 - CIE0999  425
Part 8. CLI Messages

This section contains the Call Level Interface (CLI) messages. The messages are listed in numeric sequence.
Chapter 54. CLI0000 - CLI0499

CLI00001W  Disconnect error.
Explanation:  An error occurred during the disconnect. However, the disconnect succeeded.
User response:  Validate that the communication between the client and the server are still active.

CLI0002W  Data truncated.
Explanation:  An output buffer specified is not large enough to contain the data.
User response:  Increase the size of the output buffer.

CLI0003W  Privilege not revoked.
Explanation:  The statement was a REVOKE statement and the user did not have the specified privilege.
User response:  No action needed.

CLI0004W  Invalid connection string attribute.
Explanation:  An invalid or unsupported connection string attribute was specified in the connection string but the driver was able to connect to the data source anyway.
User response:  No action needed.

CLI0005W  Option value changed.
Explanation:  The driver did not support the specified option value and substituted a similar value.
User response:  No action needed.

CLI0006W  SQLCancel treated like a close.
Explanation:  The SQLCancel call was treated like a SQLFreeStmt call with the SQL_CLOSE option.
User response:  No action needed.

CLI0008I  Capture mode terminated.
Explanation:  If the message is received at connect time when running in either capture or match modes, SQL statements are not captured into or matched from the capture file. This can be due to incorrectly configured mandatory db2cli.ini keywords. If the message is received at disconnect time, this is considered normal processing.
User response:  Ensure that the mandatory static capture or static match db2cli.ini keywords (StaticMode, StaticPackage, StaticCapFile) are properly configured as specified in the documentation.

CLI0100E  Wrong number of parameters.
Explanation:  The number of parameters specified in SQLSetParam or SQLBindParameter was less than number of parameters in the SQL statement.
User response:  Respecify the SQL statement or provide more input parameters through SQLSetParam or SQLBindParameter.

CLI0101E  The statement did not return a result set.
Explanation:  The previous statement does not result in a result set.
User response:  Respecify the SQL statement.

CLI0102E  Invalid conversion.
Explanation:  The conversion between the application data type and SQL data type is not supported by the driver.
User response:  Respecify a data conversion which is supported by the driver.

CLI0103E  Too many columns.
Explanation:  The number of columns specified in SQLBindCol is greater than the number of columns in the current result set.
User response:  Respecify the SQL statement or reset the bound column information in SQLBindCol.

CLI0104E  Unable to connect to data source.
Explanation:  The driver was unable to establish a connection with the data source.
User response:  Ensure the server is started and that the communications between the client and server are correct.

CLI0105E  Connection in use.
Explanation:  The specified connection handle is already being used and the connection is still opened.
User response:  Allocate a new connection using SQLAllocConnect and retry the connection or terminate the existing connection.

CLI0106E  Connection is closed.
Explanation: The connection specified by the connection handle is no longer active.
User response: Establish a new connection.

CLI0107E  Connection failure during transaction.
Explanation: The connection failed during the execution of the function and it cannot be determined whether the COMMIT or ROLLBACK occurred before the failure.
User response: Establish a new connection.

CLI0108E  Communication link failure.
Explanation: The connection between the driver and the data source failed during execution of this function.
User response: Establish a new connection.

CLI0109E  String data right truncation.
Explanation: The data specified through SQLSetParam or SQLBindParameter is larger than the maximum size allowed for the corresponding use of a parameter marker.
User response: Respecify the parameter using SQLSetParam or SQLBindParameter.

CLI0110E  Invalid output or indicator buffer specified.
Explanation: The returned data was NULL but the output or indicator buffer specified was a NULL buffer.
User response: Respecify the output or indicator buffer supplying a non-NULL buffer and retry the operation.

CLI0111E  Numeric value out of range.
Explanation: Returning the numeric data would have caused the whole part of the number to be truncated. SQLPutData was called more than once for a parameter and the input data was not of type character or binary.
User response: Respecify the output bindings either through SQLBindCol or SQLGetData to avoid creating a numeric data truncation. Do not call SQLPutData for a parameter if the application data type specified for that parameter through SQLSetParam or SQLBindParameter is not SQL_C_CHAR or SQL_C_BINARY.

CLI0112E  Error in assignment.
Explanation: The data sent for a parameter or column was incompatible with the data type of the associated table column.
User response: Respecify the output binding through SQLBindCol or SQLGetData or the input binding through SQLSetParam or SQLBindParameter.

CLI0113E  Invalid date/time format.
Explanation: The data sent for a date/time field was invalid. An invalid datetime format was detected; that is, an invalid string representation or value was specified.
User response: Respecify the date data.

CLI0114E  Datetime field overflow.
Explanation: The data sent for a date, time, or timestamp parameter, or column, was invalid.
User response: Respecify the date, time, or timestamp data.

CLI0115E  Invalid cursor state.
Explanation: The statement is not positioned on a row.
User response: Position the statement on a row by calling SQLFetch or SQLExtendedFetch and retry the operation.

CLI0116E  Invalid transaction state.
Explanation: There was a transaction in progress when SQLDisconnect was called.
User response: Call SQLTransact before calling SQLDisconnect.

CLI0117E  Invalid cursor name.
Explanation: An invalid or duplicate cursor name was specified in SQLSetCursorName.
User response: Respecify a valid cursor name through SQLSetCursorName.

CLI0118E  Invalid SQL syntax.
Explanation: An invalid or incorrect SQL statement was specified.
User response: Respecify a valid SQL statement.

CLI0119E  Unexpected system failure.
Explanation: An unexpected system failure occurred while processing the function.
User response: Restart the application and try again.

CLI0120E  Memory allocation failure.
Explanation: The driver was unable to allocate memory required to support execution or completion of the function.
User response: Verify that your system has enough memory to complete the desired operation.

CLI0121E  Invalid column number.
Explanation: The value specified in iCol is less than zero, greater than the number of columns in the result set, or greater than the maximum number of columns allowed in a result set.
User response: Respecify a valid value for iCol.

CLI0122E  Program type out of range.
Explanation: The value specified for fCType is not valid.
User response: Respecify a valid value for fCType.

CLI0123E  SQL data type out of range.
Explanation: The value specified for fSQLType is not valid.
User response: Respecify a valid value for fSQLType.

CLI0124E  Invalid argument value.
Explanation: The value specified for an argument was invalid. Possible reasons may be a null pointer, invalid length, invalid option, etc.
User response: Re-examine the argument passed in to the function and determine which argument is invalid.

CLI0125E  Function sequence error.
Explanation: This function was called in an invalid sequence.
User response: Correct the sequence in your application and retry the operation.

CLI0126E  Operation invalid at this time.
Explanation: The operation the system is trying to perform is invalid at this time.
User response: Correct the sequence of operation and retry the operation.

CLI0127E  Invalid transaction code.
Explanation: The transaction option specified in SQLTransact was not SQL_COMMIT or SQL_ROLLBACK.
User response: Specify either SQL_COMMIT or SQL_ROLLBACK and retry the operation.

CLI0128E  Unexpected memory handling error.
Explanation: Memory handling error.
User response: An unexpected error occurred in the driver while handling some internal memory buffer. Restart your application.

CLI0129E  An attempt to allocate a handle failed because there are no more handles to allocate.
Explanation: A CLI handle is a variable that refers to a data object allocated and managed by DB2 CLI. There are four types of handles in CLI:
- Environment handle
- Connection handle
- Statement handle
- Descriptor handle
This message is returned when all handles that can be allocated have been allocated, and an attempt is made to allocate a handle using one of the following functions:
- SQLAllocEnv
- SQLAllocConnect
- SQLAllocStmt
- SQLAllocHandle
- SQLExecute
- SQLExecDirect
User response: Free handles that are no longer being used in the application by calling SQLFreeEnv, SQLFreeConnect, or SQLFreeStmt, or SQLFreeHandle.
To reduce the incidence of this error take one or both of the following actions:
- Modify the application to release handles more frequently.
- Increase the number of statement handles that can be allocated by increasing the CLIPkg CLI/ODBC configuration parameter using the BIND command.

CLI0130E  No cursor name available.
Explanation: There was no open cursor on the statement and no cursor had been set with SQLSetCursorName.
User response: Specify a cursor name through SQLSetCursorName.

CLI0131E  Invalid string or buffer length.
Explanation: The length of the buffer specified is invalid.
User response: Specify a valid buffer length.
CLI0132E  Descriptor type out of range.
Explanation: The description type specified is not valid.
User response: Specify a valid descriptor type.

CLI0133E  Option type out of range.
Explanation: The option type specified is not valid.
User response: Specify a valid option type.

CLI0134E  Invalid parameter number.
Explanation: The number specified for the parameter number is less than zero or greater than the maximum parameter supported by the data source.
User response: Specify a valid parameter number.

CLI0135E  Invalid scale value.
Explanation: The scale value specified is invalid.
User response: Specify a valid scale value.

CLI0136E  Function type out of range.
Explanation: The function type is invalid.
User response: Specify a valid function type value.

CLI0137E  Information type out of range.
Explanation: The information type is invalid.
User response: Specify a valid information type value.

CLI0138E  Column type out of range.
Explanation: The column type is invalid.
User response: Specify a valid column type value.

CLI0139E  Scope type out of range.
Explanation: The scope type is invalid.
User response: Specify a valid scope type value.

CLI0140E  Uniqueness option type out of range.
Explanation: The uniqueness option type is invalid.
User response: Specify a valid uniqueness option type value.

CLI0141E  Accuracy option type out of range.
Explanation: The accuracy option type is invalid.
User response: Specify a valid accuracy option type value.

CLI0142E  Direction option out of range.
Explanation: The direction option is invalid.
User response: Specify a valid direction option value.

CLI0143E  Invalid precision value.
Explanation: The precision value is invalid.
User response: Specify a valid precision value.

CLI0144E  Invalid parameter type.
Explanation: The parameter type is invalid.
User response: Specify a valid parameter type value.

CLI0145E  Fetch type out of range.
Explanation: The fetch type is invalid.
User response: Specify a valid fetch type value.

CLI0146E  Row value out of range.
Explanation: The row value is invalid.
User response: Specify a valid row value.

CLI0147E  Concurrency option out of range.
Explanation: The concurrency option is invalid.
User response: Specify a valid concurrency option value.

CLI0148E  Invalid cursor position.
Explanation: The cursor position is invalid.
User response: Specify a valid cursor position value.

CLI0149E  Invalid driver completion.
Explanation: The driver completion is invalid.
User response: Specify a valid driver completion value.

CLI0150E  Driver not capable.
Explanation: The operation is valid but not supported by either the driver or the data source.
User response: Specify a valid operation.

CLI0151E  No data pending.
Explanation: SQLEndTran, SQLAllocHandle, or SQLDriverConnect was called but there is no data at execute pending on this statement.
User response: Respecify the parameters through SQLSetParam or SQLBindParameter.
| CLI0152E | Not a string value. |
| Explanation: The function expected a string argument to be supplied. |
| User response: Respecify the argument to the function. |
| CLI0153E | Invalid file name length. |
| Explanation: The length specified for the file name is invalid. |
| User response: Specify a valid file name length. |
| CLI0154E | Invalid connection state. |
| Explanation: An attempt to change the connection type was made but the connection or another connection (in the case of Distributed Unit of Work) is already opened. |
| User response: Do not attempt to change the connection type once the connection is opened. |
| CLI0155E | File name length is too long. |
| Explanation: The length supplied for the file name is greater than supported. |
| User response: Specify a valid file name length. |
| CLI0156E | Error closing a file. |
| Explanation: An unexpected condition occurred while closing a file. |
| User response: Retry the operation. |
| CLI0157E | Error opening a file. |
| Explanation: An unexpected condition occurred while opening a file. |
| User response: Retry the operation. |
| CLI0158E | Error writing to a file. |
| Explanation: An unexpected condition occurred while writing to a file. |
| User response: Retry the operation. |
| CLI0159E | Error deleting a file. |
| Explanation: An unexpected condition occurred while deleting a file. |
| User response: Retry the operation. |
| CLI0164E | Nullable type out of range. |
| Explanation: An invalid nullable value was specified. |
| User response: Respecify the nullable value. |
| CLI0165E | Error in row. |
| Explanation: An error occurred while fetching one or more rows. (Function returns SQL_SUCCESS_WITH_INFO.) |
| User response: Retry the operation. |
| CLI0166E | PARMLIST syntax error. |
| Explanation: The PARMLIST value in the stored procedures catalog table contains a syntax error. |
| User response: Respecify the row for this stored procedure. |
| CLI0167E | Operation was cancelled. |
| Explanation: SQLCancel was called on the statement. |
| User response: Resubmit the operation. |
| CLI0171E | The database was unable to connect. Reason: reason-text. |
| Explanation: The database connection failed. The 'Reason:' will explain why the database was unable to connect. |
| User response: Fix the problem, and try the connect again. |
| CLI0172E | The database was unable to connect. Would you like to continue with the configuration? Reason: reason-text. |
| Explanation: The database connection failed. The 'Reason:' will explain why the database was unable to connect. |
| User response: Fix the problem, and try the connect again or continue with the configuration. |
| CLI0175E | No ODBC Driver Manager has been found. Cannot open ODBCINST.INI file. |
| Explanation: Neither one of the Visigenic or the Intersolv ODBC Driver Managers have been installed. An ODBC Driver Manager must be present before the DB2 ODBC Driver can be registered into the associated ODBCINST.INI file. |
| User response: Install an ODBC Driver Manager, and try running this command again. |
CLI0176E  Unable to write to the ODBCINST.INI file.
Explanaton:  An error has occurred while writing to an ODBCINST.INI file to be used with an ODBC Driver Manager. This may be due to invalid format of the original ODBCINST.INI file.
User response:  Rename the existing ODBCINST.INI file to something else and try running this command again. If this error persists, contact your technical support.

CLI0177E  Cannot determine where the IBM Data Server Client is installed.
Explanaton:  An error has occurred while trying to locate where the IBM Data Server Client is installed.
User response:  Check that the IBM Data Server Client has been correctly installed.

CLI0178I  The DB2 ODBC Driver has been successfully registered.
Explanaton:  The DB2 ODBC Driver has been registered with the installed ODBC Driver Manager(s).
User response:  The user can now use the appropriate ODBC Administrator tool from the ODBC Driver Manager vendor to configure the ODBC data sources.

CLI0179E  Unable to display dialog box.
Explanaton:  The DB2 ODBC Driver cannot open a dialog box with the window handle provided by the application.
User response:  The application must pass a valid window handle.

CLI0180E  Invalid bookmark value.
Explanaton:  The argument fFetchOrientation was SQL_FETCH_BOOKMARK and the bookmark pointed to by the value SQL_ATTR_FETCH_BOOKMARK_PTR statement attribute was not valid.
User response:  Re-specify a valid bookmark value.

CLI0181E  Invalid descriptor index.
Explanaton:  The value specified for the column number argument is invalid.
User response:  Re-specify a valid column number.

CLI0182W  Fractional truncation.
Explanaton:  The data for one of the columns was truncated.
User response:  None needed.

CLI0183E  Associated statement is not prepared.
Explanaton:  The descriptor handle was associated with an IRD, and the associated statement handle was not in a prepared state.
User response:  Prepare the statement associated with the descriptor.

CLI0184E  Cannot modify an implementation row descriptor.
Explanaton:  The descriptor handle was associated with an IRD, and IRD record fields cannot be updated.
User response:  Specify a valid descriptor and field.

CLI0185E  Invalid use of an automatically allocated descriptor handle.
Explanaton:  Only explicit descriptors allocated using the SQLAllocHandle function can be used in this manner.
User response:  Use an explicitly allocated descriptor.

CLI0186E  Server declined cancel request.
Explanaton:  Communication errors caused the server to decline the cancel request.
User response:  None needed.

CLI0187E  Non-character and non-binary data sent in pieces.
Explanaton:  SQLPutData was called more than once for a column that was not a character or binary column.
User response:  Only call SQLPutData once for non-character and non-binary data.

CLI0188E  Attempt to concatenate a null value.
Explanaton:  A previous call to SQLPutData for this parameter specified an input buffer length of SQL_NULL_DATA
User response:  Call SQLPutData with a valid input buffer length or ensure SQLPutData is called the correct number of times.

CLI0189E  Inconsistent descriptor information.
Explanaton:  The associated descriptor failed a consistency check.
User response:  Ensure that descriptor fields are valid, and all interdependent fields are set correctly.
CLI0190E Descriptor invalid on indirect reference.

Explanation: The descriptor handle was invalid, or the TYPE, OCTECT_LENGTH, DATA_PTR, INDICATOR_PTR, or OCTECT_LENGTH_PTR field of the ARD contained an invalid value.

User response: Ensure the indirect descriptor handle is valid and that the deferred fields are set correctly.

CLI0191E Invalid attribute value.

Explanation: The value given was not correct for the specified attribute.

User response: Use a correct value for the specified attribute.

CLI0192E Invalid database alias specified.

Explanation: You have specified an invalid or non-existent database alias name through the -d parameter of the DB2CAP command.

User response: Specify the name of an existing database alias. To find out which databases are currently catalogued, use the LIST DATABASE DIRECTORY command.

CLI0193E Capture file capture-file-name not found or in use.

Explanation: DB2CAP is unable to open the file <capture-file-name> that you specified as a BIND parameter value. Either the file does not exist or some other process is using it exclusively.

User response: Specify the name of an existing capture file or wait until the file is released by the other process.

CLI0194E Command syntax error. The correct syntax is: db2cap [-h | -?] bind capture-file -d db-alias [-u userid [-p password]]

Explanation: The parameters of the DB2CAP command, as well as the command name itself, must be typed exactly as shown in the syntax diagram provided. They are case-sensitive on UNIX platforms and case-insensitive on Intel platforms. There must be at least one space between the parameter and its value. For example: -u userid is correct, but -userid is incorrect.

In the syntax diagram, square brackets ([ ]) denote optional parameters. If you specify the userid but omit the password, you will be prompted to enter the password, in which case it won’t be visible when you type it.

If you specify the -h or -? parameter, the command will display the syntax help and no other parameter will be processed.

User response: Make sure the syntax of the command is as described in the diagram.

CLI0195E Invalid capture file: does not contain any valid statement groups.

Explanation: A valid capture file must contain at least one valid statement group.

User response: Re-capture the application using the same capture file and make sure that at least one SQL statement was captured, or edit the capture file and add statement groups manually. When adding a statement group manually, make sure you specify all the required keywords for the type of SQL statement you are adding. Then submit your request again.

CLI0196E Switch user operation invalid at this time.

Explanation: The application cannot switch the user within a unit of work.

User response: Correct the sequence of operation. The application must switch the user before beginning a unit of work.

CLI0197E A trusted context is not enabled on this connection. Invalid attribute value.

Explanation: The attribute SQL_ATTR_TRUSTED_CONTEXT_USERID or SQL_ATTR_TRUSTED_CONTEXT_PASSWORD cannot be set to reuse a trusted connection before an initial trusted connection has been established.

User response: Ensure that the SQL_ATTR_USE_TRUSTED_CONTEXT has been set to enable the trusted context and that a trusted connection has been established.

CLI0198E Missing trusted context userid.

Explanation: The attribute SQL_ATTR_TRUSTED_CONTEXT_PASSWORD was set without providing the required attribute, SQL_ATTR_TRUSTED_CONTEXT_USERID.

User response: Ensure that when setting the attribute, SQL_ATTR_TRUSTED_CONTEXT_PASSWORD that the SQL_ATTR_TRUSTED_CONTEXT_USERID attribute is also set.

CLI0199E Invalid connection string attribute.

Explanation: An invalid or unsupported connection string attribute was specified in the connection string. The driver was unable to establish a connection with the data source.
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User response: Specify a valid connection string attribute and retry.

---

CLI0200E Invalid DSN value.

Explanation: The value attempting to be used for the DSN in the connection string or connection API is invalid.

The driver did not attempt a connection with the data source.

User response: Specify a valid DSN and retry.

---

CLI0201E Invalid database value.

Explanation: The database name or database alias in the connection string or connection API is invalid.

The driver did not attempt a connection with the data source.

User response: Specify a valid database name and retry.

---

CLI0202E Error opening the CLI Client Optimization feature capture file.

Explanation: CLI Client Optimization feature is unable to open the file specified in the pureQueryXML CLI parameter value. Either the file does not have the correct permissions or some other process is using it exclusively.

The CLI Client Optimization feature is enabled when either "captureMode" or "executionMode" CLI keywords are specified.

The pureQueryXML CLI keyword specifies the capture file location using either an absolute path or a relative path to the directory location where the CLI application is running.

During the capture phase of the Client Optimization feature, the capture file can either exist or not exist in the location specified. If the file exists, the Client Optimization feature will require read and write permission to the capture file. If the files does not exist, the Client Optimization feature will require write permission to the directory to create the file.

During the match phase of the Client Optimization feature, the capture file must exist and the Client Optimization feature will require read permission to the specified file.

CLI will return an error if any of these permissions are not available.

User response: Specify the name of a capture file with appropriate permissions for the pureQueryXML CLI keyword or disable the Client Optimization feature.

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CLI0203E Client Optimization feature is not supported when static profiling is enabled in the DB2 CLI driver.

Explanation: The DB2 CLI driver static profiling function cannot be used with the Client Optimization feature. CLI does not allow enabling both Client Optimization and the static profiling function simultaneously for a given database connection.

User response: Use the Client Optimization feature or the DB2 CLI driver static profiling function. Client Optimization can be disabled by removing the captureMode and executionMode CLI keywords. DB2 CLI driver static profiling can be disabled by removing the StaticMode CLI keyword.

---

CLI0204E Dynamic execution of SQL statement is not allowed.

Explanation: The Client Optimization feature failed to find a matching SQL statement in the pureQueryXml capture file when executionMode CLI keyword is set to STATIC and the allowDynamicSQL CLI keyword value is FALSE. Dynamic execution is not allowed with this configuration.

If a CLI application is expected to run any SQL statement dynamically, specifying a value of TRUE for allowDynamicSQL will enable an SQL statement to run dynamically if no matching statement found in the pureQueryXml capture file.

Alternatively, an incremental capture phase may be used to refresh the pureQueryXml capture file to include any missing SQL statement. This capture phase must be followed by a Configure phase and a StaticBinder phase of the Client Optimization feature before the application can be run with an executionMode value of STATIC.

User response: Specify a value of TRUE for allowDynamicSQL keyword or refresh the pureQueryXml capture file to include the SQL statement.

---

CLI0205E Cannot find library db2clixml4c.

Explanation: db2clixml4c cannot be found in the library path.

The library path is defined by the environment variable for the following operating systems:

AIX (Java 1.1)

LD_LIBRARY_PATH

AIX (Java 1.2 or later)

LIBPATH

HP-UX

SHLIB_PATH
The db2clixml4c library is dynamically loaded if a CLI application has requested to use the Client Optimization feature. CLI attempts to locate this library from the library path. The DB2 CLI drivers include this library in the default library path when installed. If the db2clixml4c library cannot be located, the Client Optimization feature may be disabled by removing the captureMode and executionMode CLI keywords.

**User response:** Ensure your application environment is configured correctly to use DB2. On UNIX platforms, ensure that the sqllib/db2profile script has been run to set your environment variables.

**CLI0206E** Unable to read an element of the pureQueryXml capture file.

**Explanation:** The Client Optimization feature reads the pureQueryXml capture file. If one or more entries in this file are corrupted or invalid, the Client Optimization feature cannot proceed.

Any manual changes made to pureQueryXml capture file, may cause this error. If the file is not modified and it was completely generated by the CLI driver or the Configure tool, please contact IBM technical support for further help.

**User response:** Ensure that the pureQueryXml capture file is correct or recapture the pureQueryXml capture file.

**CLI0207E** Invalid file extension for pureQueryXml capture file.

**Explanation:** The pureQueryXml capture file must have a file extension of "xml" or "pdqxml".

**User response:** Specify a file with a supported file extension for the pureQueryXml CLI keyword.

**CLI0208E** The codepage could not be set for this connection because the connection is part of an XA environment.

**Explanation:** Setting the codepage at the connection level is not supported in an XA environment.

This message is returned when an application attempts to set the connection attribute

**CLI0210E** The statement could not be executed because the code page of the parameter markers or result set columns does not match the code page that is currently specified in the SQL_ATTR_OVERRIDE_CHARACTER_CODEPAGE connection attribute.

**Explanation:** In general, when the code page of a client application differs from the code page of the database server to which the application is connected, character conversion happens automatically when data is inserted or retrieved.

You can override this automatic behavior for parameterized insert and update operations and for

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fetching query results using the connection attribute SQL_ATTR_OVERRIDE_CHARACTER_CODEPAGE. When the code page of a statement’s parameter markers or result set columns matches the value of SQL_ATTR_OVERRIDE_CHARACTER_CODEPAGE, no character conversion happens when that statement is executed.

This message is returned when an attempt is made to execute a statement for which the describe information for parameter markers or result set columns does not match the code page to which the connection attribute SQL_ATTR_OVERRIDE_CHARACTER_CODEPAGE is set.

User response: To insert or retrieve the data without character conversion, perform the following steps:
1. Determine the code page indicated by the describe information for the parameter markers or result set columns of the current statement.
2. Free any statement handles associated with the current connection.
3. Set the connection attribute SQL_ATTR_OVERRIDE_CHARACTER_CODEPAGE to the same code page as the code page indicated by the describe information for the parameter markers or result set columns of the current statement.
4. Reallocate the current statement handle.
5. Execute the statement again.

CLI0211E Configuring the specified property failed because the specified value is incompatible with existing property settings.

Explanation: You can improve the performance of your database application using pureQuery client optimization. For example, you can use pureQuery client optimization to substitute an SQL statement that executes very quickly for an SQL statement that executes slowly without rewriting your application.

The behavior of the pureQuery client optimization feature is controlled by a collection of properties. For example, to enable the substitution of SQL statements, you can set the enableDynamicSQLReplacement property to TRUE. This message is returned when an attempt is made to set one of these properties to a value that is not compatible with other, existing property values.

This message is returned when an attempt is made to configure pureQuery client optimization in one of the following incompatible combinations:
• An attempt was made to enable both dynamic SQL replacement and capture mode.
• An attempt was made to enable both static execution mode and capture mode.

Static execution mode is not supported when pureQuery is in capture mode. Specifically, executionMode cannot be set to STATIC when captureMode is set to ON, and captureMode cannot be set to ON when executionMode is set to STATIC.

User response: Respond to this message in one of the following ways:
• If you do not need to use the pureQuery client optimization feature, disable the feature by setting the following configuration:
captureMode=OFF [or keep it unset]
executionMode=DYNAMIC [or keep it unset]
• To use the pureQuery client optimization feature, use the appropriate compatible combination of pureQuery client optimization feature properties:
1. Enable either dynamic SQL replacement or capture mode, but not both:
   – Enable dynamic SQL replacement with the following property settings:
     enableDynamicSQLReplacement=TRUE
captureMode=OFF [or keep it unset]
   – Enable capture mode with the following property settings:
captureMode=ON
     enableDynamicSQLReplacement=FALSE [or enableDynamicSQLReplacement unset]
2. Enable capture mode or use static execution mode, but not both:
   – Enable capture mode with the following property settings:
captureMode=ON
     executionMode=DYNAMIC [or keep it unset]
   – Use static execution mode with the following property settings:
captureMode=OFF [or keep it unset]
     executionMode=STATIC

CLI0212W A seamless failover occurred during an execute request.

Explanation: A seamless failover occurred during an execute request from member to member or group to group. However, the execute request was completed successfully.

User response: No action required.

CLI0213E Retrieving the pureQueryXML file from the repository failed.

Explanation: pureQuery runtime uses the runtime group ID and the connection information to determine
the repository from where to retrieve the pureQueryXML file.

The reasons why the pureQueryXML file that you indicated by using the pureQueryXmlRepository or propertiesGroupId property cannot be retrieved from the repository can be:

- The repository indicated by the pureQueryXmlRepository property is not valid or is not accessible.
- The runtime group id specified by the propertiesGroupId property is not a valid runtime group id or is not activated.

**User response:** Perform all the actions that apply to your case:

- Ensure that you have access to the repository specified in the pureQueryXmlRepository property.
- Ensure that the runtime group id specified in the propertiesGroupId property is activated.
- If necessary, adjust the values of the pureQueryXmlRepository or propertiesGroupId property so that the pureQueryXML file can be accessed from the repository.

**CLI0214E** The propertiesGroupId property was not specified in the configuration file.

**Explanation:** The propertiesGroupId property was not set to the runtime group ID defined in the repository for the pureQueryXML file.

pureQuery Runtime uses the runtime group ID and the connection information to determine the repository from where to retrieve the pureQueryXML file. If the propertiesGroupId is not specified, the pureQueryXML file cannot be retrieved from the repository.

**User response:** Set the propertiesGroupId property to the runtime group id defined in the repository where the pureQueryXML file is stored.

**CLI0215E** The connection failed because pureQuery client optimization attempted to access the pureQueryXML capture file, but a valid file name was not specified with the pureQueryXML property.

**Explanation:** You can improve the performance of your database application using pureQuery client optimization. For example, you can capture information about SQL statements, as the statements run, into a pureQueryXML capture file. That capture file (also known as the pureQueryXML file) can later be used to execute the same SQL statements with improved performance. The name of the pureQueryXML capture file is specified by using the pureQueryXML property.

Client optimization can be configured and controlled by using a collection of pureQuery-related properties, including the following examples:

- **enableDynamicSQLReplacement** - Setting enableDynamicSQLReplacement to “TRUE” causes alternative SQL statements that are in the pureQueryXML file to be executed.
- **executionMode** - Setting executionMode to “STATIC” causes matching SQL statements that are in the pureQueryXML file to be executed statically.

This message is returned when an attempt is made to use pureQuery client optimization functionality that requires the pureQueryXML file but the name of the pureQueryXML file has not been specified.

**User response:** Specify the name of the pureQueryXML file with the pureQueryXML property, and then run the application again.

**CLI0217E** The pureQuery client optimization feature was unable to use the specified pureQueryXML capture file because the version of the capture file is not supported by CLI.

**Explanation:** You can improve SQL and XQuery performance by collecting information about SQL and XQuery statements into pureQueryXML capture files. The version of the pureQueryXML capture file is determined by the method used to generate the capture file. Here are examples of ways to generate a pureQueryXML capture file:

- Using the db2cap command
- Using the pureQuery utility called GeneratePureQueryXml

DB2 for Linux, UNIX, and Windows Call Level Interface (CLI) does not support pureQueryXML capture files that are generated by the GeneratePureQueryXml utility.

This message is returned when a DB2 CLI application attempts to use pureQuery client optimization with a pureQueryXML capture file that was generated by the GeneratePureQueryXml utility.

**User response:** Regenerate a pureQueryXML capture file using a method other than the GeneratePureQueryXml utility.

**CLI0219E** Certificate-based authentication failed because the DB2 client or data server driver was configured to use certificate-based authentication, but a password was also specified with the connection.

**Explanation:** You can use SSL client authentication, based on just a user ID, with DB2 database servers using certificate-based authentication. Certificate-based authentication allows you to use SSL client authentication without the need to store and maintain database passwords on the database client.
You can use certificate-based authentication by specifying configuration parameters such as SSLClientKeystash or SSLClientKeystoreDBPassword in your CLI configuration file, db2cli.ini, or in your data server driver configuration file, db2dsdriver.cfg.

When certificate-based authentication is configured to supply authentication information, a password cannot be specified in other ways (such in the db2dsdriver.cfg configuration file, in the db2cli.ini configuration file, or in the connection string.) This message is returned when certificate-based authentication is configured to supply authentication information, and a password is also specified in another way.

**User response:** To authenticate using certificate-based authentication, perform the following steps:

1. Specify either SSLClientKeystash or SSLClientKeystoreDBPassword in the CLI configuration file or the data server driver configuration file.
2. Verify that no password is specified in the db2dsdriver.cfg configuration file, in the db2cli.ini configuration file, or in the connection string.

**CLI0220E**  Certificate-based authentication failed because two mutually exclusive configuration parameters were both specified.

**Explanation:** You can use certificate-based authentication by specifying either the SSLClientKeystash configuration parameter or the SSLClientKeystoreDBPassword configuration parameter in your CLI configuration file, db2cli.ini, or in your data server driver configuration file, db2dsdriver.cfg or in the connection string.

The configuration parameters SSLClientKeystash and SSLClientKeystoreDBPassword are mutually exclusive. This message is returned when the SSLClientKeystash configuration parameter and the SSLClientKeystoreDBPassword configuration parameter are both specified in either the CLI configuration file or the data server driver configuration file.

**User response:** To authenticate using certificate-based authentication, specify either the SSLClientKeystash configuration parameter or the SSLClientKeystoreDBPassword configuration parameter in the CLI configuration file or in your data server driver configuration file.

**CLI0221E**  Certificate-based authentication failed because the DB2 client or data server driver was not configured to use certificate-based authentication.

**Explanation:** You can use certificate-based authentication by specifying the SSLClientLabel parameter in your CLI configuration file, db2cli.ini, or in your data server driver configuration file, db2dsdriver.cfg or in the connection string.

When certificate-based authentication is configured to supply authentication information, the SSLClientLabel parameter must be specified in the db2dsdriver.cfg configuration file or in the db2cli.ini configuration file or in the connection string. This message is returned when certificate-based authentication is configured to supply authentication information, but the SSLClientLabel parameter is missing or invalid.

**User response:** To authenticate using certificate-based authentication, specify the SSLClientLabel parameter in the CLI configuration file or in the data server driver configuration file or in the connection string.

**CLI0222E**  Authentication failed because the SSLClientLabel parameter was specified but the DB2 client or data server driver was not configured to use certificate-based authentication.

**Explanation:** You can use certificate-based authentication by setting the authentication keyword to "CERTIFICATE" in your connection string, in your CLI configuration file, db2cli.ini, or in your data server driver configuration file, db2dsdriver.cfg.

When certificate-based authentication is not configured to supply authentication information, the SSLClientLabel parameter should not be specified. This message is returned when certificate-based authentication is not configured to supply authentication information, but the SSLClientLabel parameter is set in the connection string or in the db2cli.ini configuration file or in the db2dsdriver.cfg configuration file.

**User response:** To authenticate using certificate-based authentication, perform the following steps:

1. Set the authentication parameter to CERTIFICATE.
2. Specify SSLClientLabel in the CLI configuration file or in the data server driver configuration file.

To use an authentication method other than certificate-based authentication, remove the SSLClientLabel parameter from the connection string, db2cli.ini configuration file, and the db2dsdriver.cfg configuration file.

**CLI0223E**  The SQLReloadConfig function call was not processed because another execution of the SQLReloadConfig function or the SQLSetConnectAttr function with SQL_ATTR_OVERRID_PRIMARY_AFFINITY attribute is already in progress.

**Explanation:** You can reload a configuration property
from the IBM data server driver configuration file by calling the SQLReloadConfig function.

Only one instance of the SQLReloadConfig function process can run at one time. This message is returned when an attempt is made to execute the SQLReloadConfig function or call the SQLSetConnectAttr function with SQL_ATTR_OVERRIDE_PRIMARY_AFFINITY attribute while another instance of the SQLReloadConfig function is running.

**User response:** Wait for the instance of the SQLReloadConfig function or the SQLSetConnectAttr function with SQL_ATTR_OVERRIDE_PRIMARY_AFFINITY attribute that is already running to stop, and then call the SQLReloadConfig function again.

---

### CLI0224E The SQLReloadConfig function call failed because an invalid value was specified for the ConfigProperty argument.

**Explanation:** You can reload configuration properties from a specified section of the IBM data server driver configuration file by calling the SQLReloadConfig function. You can identify which section to reload by specifying the ConfigProperty argument.

This message is returned when a value other than DSD_ACR_AFFINITY is specified for the ConfigProperty argument.

**User response:** Call the SQLReloadConfig function again, specifying valid values for all arguments.

---

### CLI0225E The SQLReloadConfig function call failed because the SQLReloadConfig function cannot access the IBM data server driver configuration file.

**Explanation:** You can reload a configuration property from the IBM data server driver configuration file by calling the SQLReloadConfig function.

The SQLReloadConfig function attempts to locate the IBM data server driver configuration file in several places:
- The directory specified in the DB2DSDRIVER_CFG_PATH registry variable
- The default IBM data server driver configuration file location for the driver type and platform

This message is returned when either the SQLReloadConfig function is unable to locate the IBM data server driver configuration file, or when the SQLReloadConfig function is unable to read the IBM data server driver configuration file.

**User response:** Perform the following troubleshooting steps:

1. If the DB2DSDRIVER_CFG_PATH registry variable is set, verify that the IBM data server driver configuration file is located in the directory specified in the DB2DSDRIVER_CFG_PATH registry variable.
2. If the DB2DSDRIVER_CFG_PATH registry variable is not set, verify that the IBM data server driver configuration file is located in the default location for the driver type and platform.
3. Verify that the user id that was used to execute the application has read access for the IBM data server driver configuration file.

---

### CLI0226E The SQLReloadConfig function failed because sections in the IBM data server driver configuration file other than the section that was specified in the ConfigProperty argument have been updated.

**Explanation:** You can reload configuration properties from a specified section of the IBM data server driver configuration file by calling the SQLReloadConfig function. You can identify which section to reload by specifying the ConfigProperty argument.

This message is returned when the SQLReloadConfig function detects that sections other than the section that was specified with the ConfigProperty argument have been updated.

**User response:**
1. Return the properties in the IBM data server driver configuration file to values that match the currently active configuration.
2. Update only those sections in the IBM data server driver configuration file that are supported with the SQLReloadConfig function.
3. Execute the SQLReloadConfig function again, specifying the updated sections in ConfigProperty argument.

---

### CLI0227E The SQLReloadConfig function failed because the CLI subsystem is not initialized.

**Explanation:** You can reload a configuration property from the IBM data server driver configuration file by calling the SQLReloadConfig function.

An environment handle must be allocated before the SQLReloadConfig function can be called.

This message is returned when the SQLReloadConfig function is called before an environment handle has been allocated.

**User response:** Allocate an environment handle by calling the SQLAllocHandle function before calling the SQLReloadConfig function.

---
The SQLReloadConfig function failed because the IBM data server driver configuration file is missing one or more of the required sections. **Database**: database-name, **Host name**: host-name, **Port number**: port-number.

**Explanation**: You can reload a configuration property from the IBM data server driver configuration file by calling the SQLReloadConfig function.

The SQLReloadConfig function requires a subset of sections to be configured in the IBM data server driver configuration file. The list of required sections includes the following sections: <client>, <affinitylist>, and <alternateserverlist>.

This message is returned when an attempt is made to call the SQLReloadConfig function when the required sections in the IBM data server driver configuration file are not configured.

**User response**:

Configure all of the sections in the IBM data server driver configuration file that are required by the SQLReloadConfig function, and then call SQLReloadConfig again.

---

The SQLReloadConfig function failed because the SQLReloadConfig function failed to find an appropriate port number for a service name. **Database name**: database-name, **Host name**: host-name, **Port number**: port-number, **Service name**: service-name.

**Explanation**: You can reload a configuration property from the IBM data server driver configuration file by calling the SQLReloadConfig function.

The SQLReloadConfig function requires that the IBM client or driver can connect to the servers that are listed in the <alternateserverlist> section of the IBM data server driver configuration file.

This message is returned when the SQLReloadConfig function cannot look up the port number for specified service names.

**User response**:

Specify only service names that are available for lookup.

---

The SQLReloadConfig function succeeded. However, the IBM client or driver could not access one or more of the servers that are specified in the <alternateserverlist> section of the IBM data server driver configuration file. **Database name**: database-name, **Host name**: host-name, **Port number**: port-number.

**Explanation**: You can reload a configuration property from the IBM data server driver configuration file by calling the SQLReloadConfig function.

The SQLReloadConfig function requires that the IBM client or driver can connect to every server listed in the <alternateserverlist> section of the IBM data server driver configuration file.

This message is returned when the SQLReloadConfig function successfully reloads configuration information, but the IBM client or driver cannot connect to one or more of the servers that are listed in the <alternateserverlist> section of the IBM data server driver configuration file.

**User response**:

1. Determine to which servers the IBM client or driver is unable to connect.
2. For any server to which the IBM client or driver cannot connect, resolve the problems that are preventing the IBM client or driver from connecting.
3. Update the <alternateserverlist> section of the IBM data server driver configuration file to specify only server to which the IBM client or driver can connect.
4. Call SQLReloadConfig again.

---

The SQLReloadConfig function failed because the IBM data server driver configuration file is missing one or more of the required sections. Database: database-name, Host name: host-name, Port number: port-number.

**Explanation**: You can reload a configuration property from the IBM data server driver configuration client configuration file by calling the SQLReloadConfig function.

The SQLReloadConfig function requires a subset of sections to be configured in the IBM data server driver configuration file. The list of required sections includes the following sections: <client>, <affinitylist>, and <alternateserverlist>.

This message is returned when an attempt is made to call the SQLReloadConfig function when the required sections in the IBM data server driver configuration file are not configured.

**User response**:

Configure all of the sections in the IBM data server driver configuration file that are required by the SQLReloadConfig function, and then call SQLReloadConfig again.
CLI0232E  Attempt to set new primary member for the client affinities configuration has failed as client affinities feature has not been enabled.

Explanation: The client affinities element entries are not found in the IBM data server driver configuration file. The client affinities feature must be configured in the IBM data server driver configuration file before you can override the primary member with the SQLSetConnectAttr() API and the SQL_ATTR_OVERRIDE_PRIMARY_AFFINITY attribute.

User response: Create the required client affinities element entries in the IBM data server driver configuration file and rerun the application.

CLI0234E  New unknown primary member cannot be specified for the client affinities configuration.

Explanation: The new primary member that is specified through the SQLSetConnectAttr API with the SQL_ATTR_OVERRIDE_PRIMARY_AFFINITY attribute was not present in the <alternateserverlist> subsection of the IBM data server driver configuration file.

User response: Specify existing member in the <alternateserverlist> subsection of the IBM data server driver configuration file and call the SQLSetConnectAttr API with the SQL_ATTR_OVERRIDE_PRIMARY_AFFINITY attribute.

CLI0235E  A concurrent attempt to set new primary member for the client affinities configuration failed.

Explanation: An application might have attempted to set new primary member by calling the SQLSetConnectAttr API with the SQL_ATTR_OVERRIDE_PRIMARY_AFFINITY attribute in different threads. Also, an application might have attempted to set new primary member by calling SQLSetConnectAttr API with the SQL_ATTR_OVERRIDE_PRIMARY_AFFINITY attribute at the same time as calling the SQLReloadConfig API.

User response: Ensure that only one attempt to set the new primary member is made at any one time. The new primary member can be set by calling the SQLSetConnectAttr API with the SQL_ATTR_OVERRIDE_PRIMARY_AFFINITY attribute or calling the SQLReloadConfig API after modifying the IBM data server driver configuration file.

CLI0236W  The NULL value that was specified for the SQL_ATTR_OVERRIDE_PRIMARY_AFFINITY connection attribute has been ignored.

Explanation: You can use the client affinities feature to specify an ordered list of members to which the automatic client reroute feature will redirect application connections. You can configure the client affinities feature in the IBM data server driver configuration file.

The first member in the list of client affinities is called the primary member. You can temporarily override the primary member that is specified in the IBM data server driver configuration file by calling the SQLSetConnectAttr API with the SQL_ATTR_OVERRIDE_PRIMARY_AFFINITY connection attribute.

To return to using the primary member that is specified in the IBM data server driver configuration file, you must specify a value of NULL for the SQL_ATTR_OVERRIDE_PRIMARY_AFFINITY connection attribute.

This message is returned when a value of NULL is specified for the SQL_ATTR_OVERRIDE_PRIMARY_AFFINITY connection attribute, but the primary member has not been overridden and the automatic client reroute feature is already using the primary member that is specified in the IBM data server driver configuration file.

User response: No action is needed.

CLI0237W  The specified primary member is already set.

Explanation: You can use the client affinities feature to specify an ordered list of members to which the automatic client reroute feature will redirect application connections. You can configure the client affinities feature in the IBM data server driver configuration file.

The first member in the list of client affinities is called the primary member. You can temporarily override the primary member that is specified in the IBM data server driver configuration file by calling the SQLSetConnectAttr API with the SQL_ATTR_OVERRIDE_PRIMARY_AFFINITY attribute.

The new primary member that is specified in the
SQLSetConnectAttr API call with the SQL_ATTR_OVERRIDE_PRIMARY_AFFINITY attribute is same as the current primary member in the client affinities list.

**User response:** No action is needed.

**CLI0238W** Unretrieved OUT parameter data from the stored procedure call was lost.

**Explanation:** The application called the SQLFetch API before all OUT parameter data was retrieved with the SQLGetData API.

**User response:** If complete OUT parameter data is required, call the stored procedure again and complete the retrieval of OUT parameter with the SQLGetData API before fetching the result-set.

**CLI0239E** The batch CALL statement cannot be processed without the absolute parameter length value.

**Explanation:** You specified the SQL_DATA_AT_EXEC value for the length of the parameter in the SQLBindParameter API call. The SQL_DATA_AT_EXEC value is not supported by the batch CALL statement.

**User response:** Specify an absolute value for length of the parameter in the SQLBindParameter API call.

**CLI0240E** The batch CALL statement failed because the SQL_ATTR_ALLOW_INTERLEAVED_GETDATA attribute is specified.

**Explanation:** The SQL_ATTR_ALLOW_INTERLEAVED_GETDATA attribute is not supported by the batch CALL statement.

**User response:** Disable the SQL_ATTR_ALLOW_INTERLEAVED_GETDATA attribute.

**CLI0241E** The batch CALL statement failed because the SQL_ATTR_INTERLEAVED_PUTDATA or SQL_ATTR_INTERLEAVED_STREAM_PUTDATA statement attribute is specified.

**Explanation:** The SQL_ATTR_INTERLEAVED_PUTDATA and SQL_ATTR_INTERLEAVED_STREAM_PUTDATA attributes are not supported by batch CALL statements. The SQL_ATTR_INTERLEAVED_PUTDATA and SQL_ATTR_INTERLEAVED_STREAM_PUTDATA attributes are enabled through the SQLSetStmtAttr API.

**User response:** Disable the SQL_ATTR_INTERLEAVED_PUTDATA or SQL_ATTR_INTERLEAVED_STREAM_PUTDATA attribute.

**CLI0242E** The batch CALL statement failed because the array input chain feature was specified.

**Explanation:** The array input chain feature is not supported by the batch CALL statement. The array input chain feature is enabled through the following methods:

- Enabling the ArrayInputChain keyword in the db2cli.ini file or the IBM data server driver configuration file.
- Setting the SQL_ATTR_CHAINING_BEGIN or the SQL_ATTR_CHAINING_END attribute in the SQLSetStmtAttr API.

**User response:** Disable the array input chain feature.

**CLI0243E** The batch CALL statement failed because the stored procedure contains the array data type argument.

**Explanation:** The stored procedure with array data type arguments is not supported by the batch CALL statement.

**User response:** Call the stored procedure without the use of the batch CALL statement.

**CLI0244E** Attempt to retrieve the latest connected member name has failed as client affinities feature has not been enabled.

**Explanation:** The client affinities element entries are not found in the IBM data server driver configuration file. The client affinities feature must be configured and the <alternateserverlist> subsection must be present in the IBM data server driver configuration file before you obtain the member name with the SQLGetConnectAttr API and the SQL_ATTR_GET_LATEST_MEMBER_NAME attribute.

**User response:** Create the required client affinities element entries in the IBM data server driver configuration file and rerun the application.

**CLI0245E** Attempt to set the SQL_ATTR_DATE_SEP attribute has failed because required SQL_ATTR_DATE_FMT attribute has not been set.

**Explanation:** The SQL_ATTR_DATE_FMT attribute must be set with the SQLSetConnect API or the SQLSetEnvAttr API before the SQL_ATTR_DATE_SEP attribute can be set.

**User response:** Set the SQL_ATTR_DATE_FMT attribute with the SQLSetConnect API or the SQLSetEnvAttr API before you set the...
SQL_ATTR_DATE_SEP attribute.

CLI0246E Attempt to set the SQL_ATTR_TIME_SEP attribute has failed because required SQL_ATTR_TIME_FMT attribute has not been set.

Explanation: The SQL_ATTR_TIME_FMT attribute must be set with the SQLSetConnect API or the SQLSetEnvAttr API before the SQL_ATTR_TIME_SEP attribute can be set.

User response: Set the SQL_ATTR_TIME_FMT attribute with the SQLSetConnect API or the SQLSetEnvAttr API before you set the SQL_ATTR_TIME_SEP attribute.
### Chapter 55. CLI0500 - CLI0999

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Explanation</th>
<th>User response</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLI0600E</td>
<td>Invalid connection handle or connection is closed.</td>
<td>Connection had been closed prior to the operation.</td>
<td>Ensure connection close is not called prior to the operation.</td>
</tr>
<tr>
<td>CLI0601E</td>
<td>Invalid statement handle or statement is closed.</td>
<td>Statement had been closed prior to the operation.</td>
<td>Ensure statement close and statement connection close are not called prior to the operation.</td>
</tr>
<tr>
<td>CLI0602E</td>
<td>Memory allocation error on server.</td>
<td>Cannot allocate memory on server.</td>
<td>Ask your database administrator to check the DB2 JDBC log file for details. Rerun your program.</td>
</tr>
<tr>
<td>CLI0603E</td>
<td>CallableStatement get*** method was called without registerOutParameter.</td>
<td>Get*** method was called on a parameter that was not registered using registerOutParameter.</td>
<td>Add registerOutParameter call for the parameter.</td>
</tr>
<tr>
<td>CLI0604E</td>
<td>CallableStatement get*** method was called without calling execute.</td>
<td>The CallableStatement get*** method was called prior to calling CallableStatement execute.</td>
<td>Make sure that CallableStatement execute is called prior to any CallableStatement get*** method.</td>
</tr>
<tr>
<td>CLI0605E</td>
<td>CallableStatement get*** method did not match the type used in registerOutParameter.</td>
<td>The CallableStatement get*** method was not the one that corresponds to the type used in registerOutParameter for this parameter.</td>
<td>Change to the get*** method that matches to the type used in registerOutParameter for this parameter. (Refer to JDBC specification)</td>
</tr>
<tr>
<td>CLI0606E</td>
<td>The returned value from a column is incompatible with the data type corresponding to the get*** method.</td>
<td>The value in a CHAR/VARCHAR/LONGVARCHAR column is not a valid numeric value.</td>
<td>Use the appropriate get methods other than the ones that return numeric values.</td>
</tr>
<tr>
<td>CLI0607E</td>
<td>Invalid datetime format.</td>
<td>The value in CHAR, VARCHAR, LONGVARCHAR, GRAPHIC, or VARGRAPHIC column is invalid date/time/ timestamp value.</td>
<td>Ensure the column name is correct.</td>
</tr>
<tr>
<td>CLI0608E</td>
<td>Invalid conversion.</td>
<td>The get*** method is invalid on this column type.</td>
<td>Use the valid get*** method (see JDBC specification) to retrieve data from this column.</td>
</tr>
<tr>
<td>CLI0609E</td>
<td>Numeric value out of range.</td>
<td>The value of this column is too large/small for a short or int value, conversion will cause data loss.</td>
<td>Ensure the column name is correct.</td>
</tr>
<tr>
<td>CLI0610E</td>
<td>Invalid column number.</td>
<td>The column number is less than 1 or greater than the total number of columns in the ResultSet.</td>
<td>Make sure the column number is no less than 1 and no greater than the total number of columns.</td>
</tr>
<tr>
<td>CLI0611E</td>
<td>Invalid column name.</td>
<td>The given column name cannot be found in the ResultSet.</td>
<td>Ensure the column name is correct.</td>
</tr>
<tr>
<td>CLI0612E</td>
<td>Invalid parameter number.</td>
<td>The given parameter number is less than 1 or greater than the total number of parameters.</td>
<td>Ensure the column name is correct.</td>
</tr>
</tbody>
</table>
CLI0613E  Program type out of range.
Explanation: The object given in the PreparedStatement/CallableStatement setObject is not a valid object type.
User response: Make sure the object to be set is one of the object types allowed in setObject (see JDBC specification).

CLI0614E  Error sending to the socket, server is not responding.
Explanation: Error happened while sending data to server, server may be down.
User response: Ensure the server is up, and rerun your program.

CLI0615E  Error receiving from socket, server is not responding.
Explanation: Error happened while receiving from server, server may be down.
User response: Ensure JDBC server is up, and rerun your program.

CLI0616E  Error opening socket.
Explanation: Cannot open the socket to server, server may be down.
User response: Ensure JDBC server is up, and rerun your program.

CLI0617E  Error closing socket.
Explanation: Cannot close the socket to server. Server may be down.
User response: Ensure JDBC server is up, and rerun your program.

CLI0618E  Userid and/or password invalid.
Explanation: The given userid/password is not valid.
User response: Make sure the userid/password is correct, and rerun your program.

CLI0619E  Invalid UTF8 data format.
Explanation: When getUnicodeStream is called on columns that are not DBCS columns, the decoding from UTF8 format is done, but the data cannot be decoded properly.
User response: Use getString, getBytes, getAsciiStream, or getBinaryStream instead.

CLI0620E  IOException, error reading from input stream.
Explanation: Error happened when reading data to be put from input stream.
User response: Make sure the file exists, and file length is correctly given.

CLI0621E  Unsupported JDBC Server configuration.
Explanation: The target JDBC Server configuration is not supported. If you are running the Control Center, the target JDBC Server must be a standalone db2j process (started via db2jstrt) and not a 2-tier native JDBC Server.
User response: Reconfigure the JDBC Server using db2jstrt on the port targeted by the Control Center.

CLI0622E  Error accessing JDBC administration service extensions.
Explanation: The Control Center depends upon administration support services that run with the JDBC server. The Control Center was not able to locate or access these administration services.
User response: Ensure that the Control Center's administration services are installed with the JDBC server.

CLI0623E  Code page conversion tables do not exist.
Explanation: Cannot find the codepage conversion tables.
User response: Ensure the conversion tables (from the local codepage to Unicode and from Unicode to the local codepage) are installed.

CLI0624E  Code page conversion tables are not loaded.
Explanation: Cannot load the codepage conversion tables.
User response: Ensure your JDBC application has access to the code page tables and the tables are not corrupted.

CLI0625E  You specified JDBC 1.22 behavior; cannot use JDBC 2.0 functions.
Explanation: The function you are trying to call is a new function defined in JDBC 2.0, but you specified you want JDBC 1.22 behavior.
User response: Do not set the JDBCVERSION keyword to "122" if you want to use JDBC 2.0 functions. It should remain unset or be set to "200".
CLI0626E  function-name is not supported in this version of DB2 JDBC 2.0 driver.

Explanation: This feature is not supported by this version of the DB2 JDBC 2.0 driver.

User response: Do not use this feature.

CLI0627E  The result set is not scrollable.

Explanation: The result set is not scrollable.

User response: Ensure you set the statement/result set attribute to SCROLLABLE.

CLI0628E  No. parameter-number parameter marker in parameter set no. set-number is not set.

Explanation: The set<data-type> method has not been called for this input parameter.

User response: Call the set<data-type> method to specify the data type of and input value for this input parameter.

CLI0629E  function-name is not supported for this column.

Explanation: This operation cannot be called for this column.

User response: Change to other method.

CLI0630E  Unknown result set type/concurrency number.

Explanation: An invalid value for result set type or concurrency has been specified.

User response: Change the value to the proper value given in the specification.

CLI0631E  No random access for mixed char/clob column.

Explanation: Random access is not supported for this mixed char column.

User response: Retrieve the data sequentially.

CLI0632E  Invalid fetch size; it must be between 0 and maxRows, inclusively.

Explanation: The fetch size specified must be greater than or equal to 0, and less than or equal to maxRows.

User response: Modify the value.

CLI0633E  Cannot call relative() when there is no current row.

Explanation: The relative method was called when the cursor is not at a valid row.

User response: First move the cursor to a valid row (using absolute, next, etc), then call relative.

CLI0634E  Error allocating CLI environment handle.

Explanation: SQLAllocEnv failed during initialization.

User response: Ensure the DB2INSTANCE environment variable is set properly.

CLI0635E  function-name is not supported in an applet.

Explanation: <function-name> is not supported in an applet.

User response: Avoid using <function-name> in an applet.

CLI0636E  Property property-name is not specified for the Context object.

Explanation: Property property-name is not specified for the Context object in your Java application.

User response: Ensure that the property property-name is specified for the Context object in your Java application.

CLI0637E  object cannot be found.

Explanation: <object> does not exist.

User response: Ensure that the <object> exists.

CLI0638E  object already exists.

Explanation: <object> cannot be created as it already exists.

User response: Ensure that the operation is correct.

CLI0639E  Empty string.

Explanation: An empty string is not allowed.

User response: Correct the string specified.

CLI0640E  object cannot be listed.

Explanation: <object> cannot be listed.

User response: Ensure that the <object> can be listed.

CLI0641E  There is a SELECT statement in the batch.

Explanation: A SELECT statement is not allowed in the batch.

User response: Remove the SELECT statement from the batch.
CLI0642E  Invalid fetch direction.
Explanation: The fetch direction specified is not supported.
User response: Correct the fetch direction.

CLI0643E  There is no statement in the batch.
Explanation: The batch does not have any statement.
User response: Add a statement to the batch.

CLI0644E  Invalid row value to the absolute() call.
Explanation: The row value specified to absolute() is invalid.
User response: Correct the row value.

CLI0645E  Error registering driver class-name.
Explanation: The DriverManager is unable to register the DB2 JDBC driver.
User response: Correct the problem as indicated by the returned message, SQLSTATE and SQLCODE, and run your program again.

CLI0646E  Cannot find library library-name.
Explanation: library-name cannot be found in the library path. The library path is defined by the environment variable for the following operating systems:

AIX (Java 1.1)
    LD_LIBRARY_PATH
AIX (Java 1.2 or later)
    LIBPATH
HP-UX
    SHLIB_PATH
Linux
    LD_LIBRARY_PATH
Silicon Graphics IRIX
    LD_LIBRARY_PATH
Solaris Operating Environment
    LD_LIBRARY_PATH
Windows operating systems
    PATH
User response: Ensure your application environment is configured correctly to use DB2. On UNIX platforms, ensure that the sqllib/db2profile script has been run to set your environment variables.

CLI0647E  Error allocating DB2 environment handle. Return code = return-code.
Explanation: The DB2 CLI environment could not be established.
User response: Ensure your application environment is configured correctly to use DB2. On UNIX platforms, ensure that the sqllib/db2profile script has been run to set your environment variables. To interpret the return code, refer to the CLI Guide and Reference section on SQLAllocHandle().

CLI0648N  The ResultSet is closed.
Explanation: The ResultSet was closed prior to the operation.
User response: Ensure ResultSet.close() was not called prior to the operation. If you are processing multiple ResultSets using getMoreResults(), please ensure you call getResultSet() prior to accessing the new ResultSet.

CLI0649N  executeQuery is only allowed for statements that return a ResultSet.
Explanation: executeQuery is only allowed for statements that return a ResultSet. Such SQL statements include SELECT, VALUES, WITH, and CALL statements.
User response: Use executeUpdate() or execute().

CLI0650N  A query is not allowed in an executeUpdate().
Explanation: You cannot issue a query with executeUpdate().
User response: Use executeQuery() or execute().

CLI0651N  The stream contains more or less data than is specified.
Explanation: The number of bytes or characters in the stream is not equal to the given length.
User response: Specify the correct length.

CLI0652W  The execution of the query will not be atomic because the database server does not support atomic operations for non-insert queries.
Explanation: You can use the SQL_ATTR_PARAMOPT_ATOMIC statement attribute to specify whether the processing of multiple parameter markers should be done altogether as one operation (atomic) or as multiple operations (non-atomic.) For example, specifying a value of SQL_ATOMIC_YES causes the underlying processing of the query to be performed as an atomic operation.
This message is returned when the following conditions are all true for a given query:

- The SQL_ATTR_PARAMOPT_ATOMIC attribute is set to SQL_ATOMIC_YES for the query.
- The query is not an insert operation.
- The query is executed against a DB2 for z/OS database server, which does not support atomic processing of non-insert queries.

**User response:** You do not need to respond to this warning. There is no method for forcing a non-insert query to be executed atomically against a DB2 for z/OS database server.
Part 9. Net Search Extender Messages

Note that the SQL states returned from the search function are 38600 plus the CTE error number.
Chapter 56. CTE0000 - CTE0499

CTE0015W  No dependent text-maintained table found requiring reset.
Explanation:  The RESET PENDING command executes a set integrity statement for dependent tables used to manage full-text search. No dependent table was found that matches these criteria for the given table.

CTE0016W  Failed to set integrity for <schema-name>.<table-name>.
Explanation:  The RESET PENDING command executes a set integrity statement for dependent tables used to manage full-text search. The command failed to complete successfully.
For more details see the topic called "RESET PENDING" in the DB2 Information Center.
User response:  Run a "Set Integrity for <schema>.<table> IMMEDIATE CHECKED" for the failed table.

CTE0017W  Failed to set integrity for dependent tables.
Explanation:  The RESET PENDING command executes a set integrity statement for dependent tables used to manage full-text search. The command failed to complete successfully.
For more details, see the topic called "RESET PENDING" in the DB2 Information Center.
User response:  Run a "Set integrity for <dependent-table> immediate checked" for any dependent tables for the base table that are still in pending mode.

CTE0100E  A DB2 operation failed. DB2 information: %2 %4.
Explanation:  A DB2 error occurred that does not allow further processing.
User response:  For more detailed information on this DB2 error, use the following command: db2 ? SQLxxx.

CTE0101E  A search engine operation failed. Reason code: %2, %3, %4, %5, %6.
Explanation:  A Search Engine error occurred that does not allow further processing.
User response:  For more detailed information, see the Search Engine reason code descriptions.

CTE0102E  A general system function failed. Error: %2.
Explanation:  A system error occurred that does not allow further processing.
User response:  Additional information can be found on UNIX in the errno.h header file.

CTE0103E  An internal error occurred. Location: %1, %2.
Explanation:  An internal processing error that does not allow further processing. Try to start and stop the update and locking services, as well as DB2.
User response:  If the error persists, start a trace and also check the db2diag.log.

CTE0104E  Memory allocation error (search engine).
Explanation:  The system has run out of memory.
User response:  Increase the available memory size for the instance owner, or stop other processes running parallel.

CTE0105E  Memory allocation error.
Explanation:  The system has run out of memory.
User response:  Increase the available memory size for the user, or stop other processes running parallel.

CTE0106E  Table %1.%2 has no primary key.
Explanation:  You tried to create an index on a table that does not have a primary key.
User response:  Call the db2 alter table to ensure the existence of a primary key. Then try to create the index again.

CTE0107E  Directory %1 does not exist.
Explanation:  You specified a directory which does not exist.
User response:  Create the directory, ensure accessibility to the instance owner. Then try to specify the directory again. Note that in a distributed DB2 environment, this directory has to exist on every physical node.

CTE0108E  The internal size %4 of the key columns on object %1.%2 is larger than maximum allowed size of %3.
**CTE0109E**  •  **CTE0118E**

**Explanation:** The internal representation of the key columns exceeds the maximum size.

**User response:** Change the layout of the table before creating the index again. Use smaller key columns, which also benefit performance.

**CTE0109E**  The number of key columns %3 on object %1,%2 is larger than the allowed maximum of %4.

**Explanation:** A maximum number of 14 key columns is supported.

**User response:** Change the layout of the table before creating the index again.

**CTE0110E**  The primary key on object %1,%2 is larger than allowed.

**Explanation:** The primary key length exceeds the maximum size. The primary key length limit is based on the page size of the table space used by the table:

<table>
<thead>
<tr>
<th>Max Key Length</th>
<th>Page size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1007</td>
<td>4K</td>
</tr>
<tr>
<td>2031</td>
<td>8K</td>
</tr>
<tr>
<td>4079</td>
<td>16K</td>
</tr>
<tr>
<td>4094</td>
<td>32K</td>
</tr>
</tbody>
</table>

Note that if the primary key consists of more than one column, the mentioned limits must be reduced by 2 bytes for each additional column.

**User response:** Change the layout of the table before creating the index again. Use smaller key columns, which also benefit performance.

**CTE0111E**  The file %1 is not readable.

**Explanation:** The file specified cannot be read.

**User response:** Check the access rights for the file. Take into account that the Stored Procedure runs as a fenced user ID, which may also require rights to work on this file.

**CTE0112E**  The file %1 cannot be opened.

**Explanation:** The file specified could not be opened.

**User response:** Verify that the file is correctly specified.

**CTE0113E**  Error converting model file %1 to UTF-8 encoding.

**Explanation:** The specified CCSID or the default database CCSID does not match the model file CCSID.

**User response:** Ensure correct specification of the model file CCSID.

**CTE0114E**  Unable to register document model %1 in file %2.

**Explanation:** The model file could not be used.

**User response:** Check that the model file syntax is correctly specified.

**CTE0115E**  A locking problem occurred. Lock Manager information: %1 %2.

**Explanation:** An internal locking problem occurred.

**User response:** Check the current locks using the db2text control command. Using the same command, clean up the pending locks. If this does not help, stop and restart the locking and update services.

**CTE0116E**  Operation conflicts with existing lock.

**Explanation:** You have tried to use a command that is currently not allowed when other commands are running on the index.

**User response:** Check the locks held on this index to see which commands are currently running. Wait until the other commands have finished. If the operation is no longer running but the lock is still active, clean up the locks for the index and try again.

**CTE0117E**  All available lock space for databases is used. Change the configuration.

**Explanation:** You tried to work on more databases than are configured in your lock file.

**User response:** Change the number of databases you want to work in parallel with in your lock configuration db2extlm.cfg. Restart the update and locking services using the db2text stop and db2text start commands.

**CTE0118E**  All available lock space for indexes on a databases is used. Change the configuration.

**Explanation:** You tried to work on more indexes for one database than are configured in your lock file.

**User response:** Change the number of indexes you want to work in parallel with in your lock configuration file db2extlm.cfg. Restart the update and locking services using the db2text stop and db2text start commands.
CTE0119E All available space for locks on an index is used.

Explanation: The operations you are running require more locks for one index than are configured in your lock configuration file.

User response: Change the number of locks you want to work in parallel with in your lock configuration db2extlm.cfg. Restart the update and locking services using the db2text stop and db2text start commands.

CTE0120E Update and locking services configuration file error.

Explanation: The configuration file db2extlm.cfg is in error.

User response: Check the db2extlm.cfg file and correct the error. Restart the update and locking services using the command db2text start.

CTE0121E The update and locking services configuration file cannot be opened.

Explanation: The file db2extlm.cfg could not be opened.

User response: Check if the file exists and that it can be accessed. If the file cannot be accessed, try to update your db2 instance using db2updt.

CTE0122E A syntax error was found in the update and locking services configuration file.

Explanation: A syntax error was found in the update and locking services configuration file.

User response: Check the update and locking services configuration file for errors.

CTE0123E NULL values are not allowed to be passed as parameters.

Explanation: DB2 has passed a NULL value to an internal user-defined function.

User response: First make sure the specified base table has a primary key. Change your select statement to avoid this problem. Switch on the trace function and pass the returned information on to IBM Services.

CTE0130E The specified search argument exceeds the maximum length. The current search argument length is %1 and the maximum supported length is %2.

Explanation: The length of the specified search argument is %1. The maximum length must not exceed %2.

User response: Reduce the length of your search argument to %2.

CTE0131E The user-defined function %1.%2 does not exist.

Explanation: The specified user-defined function does not exist in this database.

User response: Check the name specified for this user-defined function, or register the user-defined function in the database you are using.

CTE0132E The text index %1.%2 does not exist.

Explanation: The specified text index does not exist in this database.

User response: Check the name specified and the database you are using. Use the db2ext:text columns view to see the existing text indexes.

CTE0133E The text index %1.%2 already exists.

Explanation: The text index that you specified already exists in this database.

User response: Check the name specified and the database you are using. Use the db2ext:text columns view to see the existing text indexes.

CTE0135E The object %1.%2 does not exist.

Explanation: The specified object name does not exist in this database.

User response: Check the object name specified and the database you are using.
CTE0136E  The column %1 does not exist in %2.%3.
Explanation: The specified column does not exist.

What to do
Check the column name that you specified. Check the table, view, or database you are using.

CTE0137E  The table space %1 does not exist.
Explanation: The specified table space does not exist in this database.

User response: Check the name specified and the database you are using.

CTE0138E  The table space %1 is not regular.
Explanation: The specified table space is not regular. The event table can only be created in a regular table space.

User response: Use this command again with a regular table space.

CTE0139E  The environment variable %1 is not set.
Explanation: A required environment variable is not set.

User response: Check your environment, specify the required variable, and use the command again.

CTE0140E  The database %1 is already enabled for text.
Explanation: The database you specified is already enabled for text.

User response: Check the name that you specified. Also check the DB2DBDFT variable that implies an implicit connection.

CTE0141E  The database %1 is not enabled for text.
Explanation: The database you specified is not enabled for text.

User response: Check the database name you specified and the DB2DBDFT variable. If the database name is correct, use the command db2text enable database for text.

CTE0142E  The command requires control authority on %1.%2 granted to user %3.
Explanation: You do not have the authority to use this command.

User response: Only the owner of this table can use this command or provide you with the required authorization.

CTE0143E  The command requires database administration authority for user %1.
Explanation: You do not have the required authority to use this command.

User response: Only the owner of the database can use this command or provide you with the required authorization.

CTE0144E  There is at least one text index active in database %1.
Explanation: You cannot disable your database until all text indexes are dropped.

User response: See the db2text.columns view for the existing indexes. Drop the existing indexes using the DROP INDEX command or specify the FORCE option with the DISABLE DATABASE command.

CTE0145E  The CCSID %1 is not supported.
Explanation: The CCSID that you specified is not supported.

User response: Specify a valid CCSID.

CTE0146E  The language %1 is not supported.
Explanation: The specified language is not supported.

User response: Specify a valid language.

CTE0147E  The format %1 is not supported.
Explanation: The specified format is not supported.

User response: Specify a valid format.

CTE0148E  The specified format %1 does not accept a model file.
Explanation: The format %1 does not support model files.

User response: Use a format that accepts a model file, or remove the model file from your command.

CTE0149E  Too many terms (beginning with %1) are specified for the index update frequency.
Explanation: The syntax for the update frequency is not correct.

User response: Ensure that the DAY, HOUR, and MINUTE parameters are only specified once.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTE0150E</td>
<td>Unexpected end of command. Check the command syntax.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> The command syntax is not correct, or you are creating an index on a partitioned table and you omitted the ADMINISTRATION TABLES IN clause.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Check the command syntax.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> The syntax of the command is not correct.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Check the command syntax and verify that the token you are using is allowed in the specific command.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> The token is too long.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Check the command syntax and verify that the token is reduced to the maximum size allowed.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> You specified an incorrect syntax for the update frequency.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Ensure that the DAY, HOUR, and MINUTE parameters are only specified once.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> The value %1 for %2 is out of range. The valid range is %3 - %4.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Update your command. Change the value to match those in the allowed range.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> The search string is empty.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Check that the search string includes valid alphanumeric characters.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> Syntax error near %1.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Check the syntax near %1. Correct and try again.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> The freetext search string is missing.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Specify a freetext string.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> The search string exceeds the allowed length of %1.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Reduce the size of the search string and try again.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> No section name has been specified in the search string.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Add a valid section name and try again.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> The escape command could not be processed.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Reduce the number of special characters in your search term, or avoid the escape command. The following special characters can be used: ! * + , . : ; { } ~</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> No thesaurus name specified in thesaurus clause.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Specify a thesaurus name in your search argument.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> Syntax error in thesaurus relation %1.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Update the thesaurus relation according to the syntax specification.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> Freetext must be the last statement in search query.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Rewrite the query string. The last operator must be &quot;is about&quot;.</td>
</tr>
<tr>
<td>CTE0167E</td>
<td>Syntax error in free text query %1.</td>
</tr>
<tr>
<td>----------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td><strong>Explanation:</strong></td>
<td>The syntax for the free text string is not correct.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Update the free text string according to the syntax specification.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CTE0168E</th>
<th>A left parenthesis in a section statement is missing.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The syntax for the section statement is not correct.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Update the section statement according to the syntax specification.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CTE0169E</th>
<th>A comma or right parenthesis is missing in a section statement.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The syntax for the section statement is not correct.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Update the section statement according to the syntax specification.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CTE0170E</th>
<th>A closing double quote is missing.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The specified syntax for the search term is not correct.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Update the search term according to the syntax specification.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CTE0171E</th>
<th>An open double quote for a section name is missing.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The syntax for the section statement is not correct.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Update the section statement according to the syntax specification.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CTE0172E</th>
<th>The closing double quote for the section name is missing.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The syntax for the section statement is not correct.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Update the section statement according to the syntax specification.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CTE0173E</th>
<th>One escape character must be defined in an escape clause.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>There can be no more than one character in an escape clause.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Remove the additional characters in the escape clause.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CTE0174E</th>
<th>A blank character is not allowed as an escape character.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>It is not allowed to have a blank character in an escape clause.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Change the escape clause to a clause with a valid character.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CTE0175E</th>
<th>An escape clause is defined but no mask character is found in the search phrase.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>An escape clause is specified without using a mask character.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Remove the escape clause.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CTE0176E</th>
<th>The succeeding character of an escape character in the phrase is neither the same character nor a mask character.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The character after the escape character must be either a masking character or the escape character itself.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Change the search string to correctly use the escape character.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CTE0177E</th>
<th>The number value %1 is invalid.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The specified number in the search argument is not valid.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Check the documentation about the valid range. Update the value in the search argument.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CTE0178E</th>
<th>Mask characters in fuzzy phrase must be preceded by an escape character.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>Masking together with fuzzy search is not allowed.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Update the search string with an escape character.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CTE0179E</th>
<th>Thesaurus name %1 exceeds allowed length of %2.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>Primary keys longer than 60 bytes are not supported.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Change the layout of the table before creating the index again.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CTE0180E</th>
<th>Thesaurus %1 can not be found.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The thesaurus specified cannot be found.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Check that the thesaurus files are located in the thesaurus directory or fully qualified.</td>
</tr>
</tbody>
</table>
CTE0181E  Library %I cannot be loaded.
Explanation: A library cannot be found.
User response: Check that the library is located in the library path and available. Start and stop DB2 to ensure that the current settings are used.

CTE0182E  Function %I cannot be loaded from library %2.
Explanation: A library entry point cannot be loaded.
User response: The library accessed seems to be invalid. Check that the library is specified only once.

CTE0183E  Error occurred using shared system resources.
Explanation: A request to share system resources like shared memory or semaphores cannot be fulfilled.
User response: Check the current system status and configuration. On UNIX, use the ipcs command to check the resources. Stop all applications, such as DB2 and Net Search Extender. If further resources are listed, clean them up using ipcrm.

CTE0184N  No DB2TEXT START command was issued.
Explanation: A Net Search Extender (NSE) command was called which requires the NSE instance services to be started. You might get this messages if the service is not started.
User response: Use the DB2TEXT START command to start NSE instance services.

CTE0185E  The executable program %I cannot be found.
Explanation: The program file cannot be located or accessed.
User response: Check if the program file is located in the bin or adm directory of the DB2 server. The installation is corrupt if the file cannot be found.

CTE0186E  The Net Search Extender (NSE) instance services are already active.
Explanation: This message can be returned when the db2text start command is issued when the update and locking services are already running.
User response: No further action is required.

CTE0187E  Update and locking services are still active, use FORCE option to stop the services.
Explanation: The db2text stop command has not stopped the locking services, there are still processes running.
User response: Check with db2text control which processes are running and wait for those to finish. If you need to stop them, use the FORCE option.

CTE0188E  There is a temporary problem using update and locking services. Please try again.
Explanation: The db2text stop command has not stopped the locking services. Programs are still running or an inconsistent situation is found.
User response: Check with db2text control which processes are running and wait for those to finish. To stop them, use the FORCE option.

CTE0189E  The executable program %I cannot be found.
Explanation: The program file cannot be located or accessed.
User response: Check if the program file is located in the bin or adm directory of the DB2 server. The installation is corrupt if the file cannot be found.

CTE0190E  The executable program %I cannot be started.
Explanation: The program cannot be started.
User response: Check if the program is located in the bin or adm directory of the DB2 server and that the appropriate libraries are installed. For further information, call the program manually on the server.

CTE0191E  The drop index operation is incomplete. Check the db2diag log files for details.
Explanation: The drop index operation is incomplete, possibly caused by the FORCE option.
User response: Using the FORCE option drops everything regardless of any errors. Check the index directory for pending files and remove these manually.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Explanation</th>
<th>User response</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTE0192E</td>
<td>Errors occurred in an update index operation. Check event table %1, %2 and db2diag log files for details.</td>
<td>During the index update process, any document errors are written to the event table.</td>
<td>Check the event table for more information about the document errors. Clean up the event log after the problems have been fixed.</td>
</tr>
<tr>
<td>CTE0194E</td>
<td>The type %1 of column %2 is not supported.</td>
<td>You used a column that is not in the list of the supported ones.</td>
<td>Check CREATE INDEX for a list of valid columns for keys and indexing. Make the appropriate changes to the command and try again.</td>
</tr>
<tr>
<td>CTE0195E</td>
<td>%1 is not an absolute path.</td>
<td>An absolute path on the server is required.</td>
<td>Check the path and write an absolute path in the command.</td>
</tr>
<tr>
<td>CTE0198E</td>
<td>No corresponding text index.</td>
<td>There is no text index on the column.</td>
<td>Check if the text index still exists.</td>
</tr>
<tr>
<td>CTE0199E</td>
<td>There is no text index corresponding to column column-number of table table-name.</td>
<td>A text search query on a table column failed because it has no valid and active text search index.</td>
<td>Check the column you are searching on, or create a text index on the column. If the table column has an invalid text search index, drop the text index and create a new one. For example, a text search index gets invalidated if the underlying base table is dropped and recreated.</td>
</tr>
<tr>
<td>CTE0200E</td>
<td>At least one command option must be specified.</td>
<td>The ALTER INDEX command changes the characteristics of an index, such as the update and storage options. None of the characteristics to be changed was specified.</td>
<td>Specify at least one command option. Refer to the command syntax for all possible options.</td>
</tr>
<tr>
<td>CTE0201E</td>
<td>There is a conflict with an existing text index on the same column.</td>
<td>A text index defined on the same column was created with different parameters from this create index command.</td>
<td>Correct the parameter values in the create index command. Make sure that following parameters have the same value for the existing index and the index to be created: ccsid, language, format, document model, index configuration, column function, and attributes.</td>
</tr>
<tr>
<td>CTE0202E</td>
<td>The object %1,%2 must be a view when key columns are specified.</td>
<td>The specified object is not a view. The KEY COLUMNS FOR INDEX ON VIEW clause is only allowed when indexing a column of a view.</td>
<td>Remove the KEY COLUMNS FOR INDEX ON VIEW(SQL-columnname-list) clause.</td>
</tr>
<tr>
<td>CTE0203E</td>
<td>The text index %1,%2 was not created with the CACHE TABLE option. This is required for command execution.</td>
<td>This command can only be executed if the specified index was created with the CACHE TABLE option.</td>
<td>Create an index with CACHE TABLE option. Refer to the documentation for the command syntax.</td>
</tr>
<tr>
<td>CTE0204E</td>
<td>An attribute name is missing. Add &quot;AS &lt;attribute name&gt;&quot; to the attribute expression.</td>
<td>Whenever a column expression is used in the attribute expression, an attribute name must be supplied. For example: (C1+C2 AS myname).</td>
<td>Add &quot;AS &lt;attribute name&gt;&quot; to the attribute expression.</td>
</tr>
<tr>
<td>CTE0205E</td>
<td>CACHE TABLE expressions are not valid.</td>
<td>The column list in the cache table expression is not valid.</td>
<td>Correct the cache table column list in the create index command. Make sure the columns exist in the specified table. If a function is applied on a column, verify that it is used correctly.</td>
</tr>
</tbody>
</table>
CTE0206E  ATTRIBUTE expressions are not valid.
Explanation: The column list in the attribute expression is not valid.
User response: Correct the attribute column list in the create index command. Make sure the columns exist in the specified table. If a function is applied on a column, verify that it is used correctly.

CTE0207E  KEY COLUMNS FOR INDEX ON VIEW not specified for index on view %1.%2.
Explanation: If indexes on views are created, the KEY COLUMNS FOR INDEX ON VIEW(SQL-columnname-list) clause must be specified. The list of column names specifies the columns that UNIQUELY identify a row in the view.
User response: Include the KEY COLUMNS FOR INDEX ON VIEW(SQL-columnname-list) clause in the create index command.

CTE0208E  INITIAL SEARCH RESULT ORDER columns are not valid.
Explanation: The column list in the INITIAL SEARCH RESULT ORDER(SQL-order-by list) expression is not valid.
User response: Correct the order by column list in the create index command. Check if the syntax is correct and the columns exist in the specified table. If a function is applied on a column, verify that it is used correctly.

CTE0209E  The type %1 of attribute column %2 is not supported, type DOUBLE is required.
Explanation: For attribute columns, the only supported data type is DOUBLE.
User response: Make sure the attribute columns of the table with the text column to be indexed are of type DOUBLE. It may be possible to use cast operators in attribute column expressions. Refer to the SQL Reference for data types which can be cast to double.

CTE0210E  The value %1 for index configuration parameter %2 is not valid. A valid value is %3.
Explanation: The specified value for the configuration parameter is incorrect. For valid values of the parameters refer to the command syntax.
User response: Correct the index configuration parameter value in the create index command.

CTE0211E  %1 is not a valid index configuration parameter.
Explanation: The index configuration option is not known.
User response: Check the create index command syntax. Valid index configuration options are TreatNumbersAsWords and IndexStopWords. These have to be comma separated: index configuration(treatnumbersaswords 1, indexstopwords 1).

CTE0212E  Internal index configuration file %1 could not be saved.
Explanation: The internal configuration file for the index could not be saved.
User response: Make sure the instance owner has write permissions to the directory the file should be saved in. If a file with the same name already exists, make sure that it is writable for the instance owner.

CTE0213E  Internal index configuration file template %1 could not be loaded.
Explanation: The internal index configuration file template could not be read.
User response: Make sure the file exists in the correct location and is readable.

CTE0214E  Internal error when setting new entry [%1],%2=%3 for index configuration file.
Explanation: Internal error while writing an internal configuration file for the index.
User response: If the file exists, check if it is readable and writable for the instance owner. Check that there is enough space on the device where the file is located.

CTE0215E  Index creation on alias %1.%2 is not supported. Use base table %3.%4 instead.
Explanation: The index cannot be created on the alias.
User response: Type in the create index command with the base table.

CTE0217E  The schedule service is already active.
Explanation: The service is already active, you do not need to start it.
User response: No action required.
CTE0218E The function function-name failed with error code error-code.

Explanation: A Windows operating system function failed with the specified error code which does not allow further processing.

User response: Use the specified Windows system error code to get detailed error information.

CTE0219E The service named service-name could not be opened. Error code error-code.

Explanation: The specified service cannot be found on the Windows operating system.

This message can be returned when the database manager attempted to start the Net Search Extender (NSE) services in response to the DB2TEXT START command, but could not start the services on one or more of the database partitions.

For example, if Net Search Extender (NSE) is not installed on one or more computers where the database partitions are located, then the database manager will not be able to successfully start Net Search Extender (NSE) instance services.

User response: Check if the specified service is installed on the Windows system. Use the specified Windows system error code to get detailed error information.

CTE0220E The DB2 instance profile path could not be found.

Explanation: Internal DB2 function to obtain the DB2 instance profile path failed.

User response: Create a DB2 instance without specifying the instance profile path information and retry the command.

CTE0221E UpdateFrequency %1 is incorrectly specified.

Explanation: The syntax for the update frequency statement is not correct.

User response: Correct the update frequency statement according to the syntax specification.

CTE0222E The schedule service input file %1 is corrupted.

Explanation: The scheduler file containing index update information is corrupted.

User response: Use your system editor and try to correct the problem. Maybe an entry has been truncated, or the ending line character has been deleted. If this does not restore the file content, try the following: Call command db2text stop to stop the scheduler. Delete the scheduler service file. Call command db2text start to start the scheduler. Use command db2text alter index ... to recreate the update frequency entries for all concerned indexes.

CTE0223E File %1 could not be closed.

Explanation: The file specified cannot be closed.

User response: Verify that the file is correctly specified.

CTE0224E File %1 could not be copied to %2.

Explanation: The first file cannot be copied to the second file.

User response: Verify that the files are correctly specified. Check if the second file already exists and is read only. Also check if there is enough free space on the system.

CTE0225E File %1 could not be removed.

Explanation: The file specified cannot be removed from the system.

User response: Verify that the file is specified correctly and check the file access rights.

CTE0227E A write operation on file %1 failed.

Explanation: The file specified is not writable.

User response: Verify that the file is correctly specified and check the file access rights. Also check if there is enough free space on the system.

CTE0228E The user has insufficient access rights at the operating system level.

Explanation: The command requires administrator rights at the operating system level.

User response: Ensure that you have operating system administrator rights. Check if you are a member of the administrator group.

CTE0231E %1 is not defined in same nodegroup (%4) as the table space of %2.%3.

Explanation: The table space of the administration tables is required to be distributed over different nodes in exactly the same way as the table containing the text column to be indexed. To enforce this, it is checked whether the specified tablespace is defined in the same nodegroup.

User response: Specify a table space that is defined in the same nodegroup as the table containing the text column to be indexed.
CTE0232E  The specified or default table space %1 is not single-noded. This is necessary for an index on a view, or when the CACHE TABLE option is specified.

Explanation:  An index on a view or with the CACHE TABLE option enabled is only supported for tables on a single node.

User response:  Put the table in a single-noded table space if the default table space caused this error. Alternatively, specify another single-noded table space, if you specified a multi-noded table space.

CTE0233E  There is a conflicting administration command running. Please retry this command later.

Explanation:  Another administration command is still running or terminated abnormally without releasing the command lock.

User response:  Check with CONTROL LIST which locks are still active. If there is an active lock but no command running, clear the lock manually using the CONTROL CLEAR command. Be aware that someone else may be running the administration command holding the lock.

CTE0234E  There is a conflicting administration command running on a text index. Please retry this command later, or specify the FORCE option of a DISABLE DATABASE command.

Explanation:  Another administration command is still running or terminated abnormally without releasing the command lock.

User response:  Check with CONTROL LIST which locks are still active. If there is an active lock but no command running, clear the lock manually using the CONTROL CLEAR command. Be aware that someone else may be running the administration command holding the lock. For a DISABLE DATABASE command you may specify the FORCE option which stops all other commands on that database.

CTE0235E  No valid license found for Net Search Extender.

Explanation:  There was no valid license found for Net Search Extender.

User response:  Check whether the license was correctly installed with db2lic. Make sure existing instances are updated after the product install.

CTE0236E  Only Node0 is supported on MPP instances.

Explanation:  Text Indexes can only be created on MPP instances, if the table with the text column to be indexed resides on Node0.

User response:  Check the node group of the tablespace in which the table is defined.

CTE0237E  Internal error: log table %1.%2 contains an invalid operation %3.

Explanation:  The log table keeps track of operations executed on the table containing the indexed text column. This table might be corrupted, as it contains an entry not written by Net Search Extender.

User response:  Check the log table and delete the corrupted entry.

CTE0238E  Internal error: table %1.%2 contains an incorrect syntax expression in column %3.

Explanation:  There is an error in the expression list in the specified text column.

User response:  Check the delimiter Begin and End pairs.

CTE0239E  Internal error: total length of index properties %1 exceeds maximum %2.

Explanation:  The maximum size of the index properties (1016 bytes) is exceeded. The properties contain the instance, index, and work directory as well as other information.

User response:  Make sure these path names are not too long.

CTE0240E  Internal error: setting environment variable %1 failed.

Explanation:  Setting the specified environment variable failed. There may be a problem with the environment setup.

User response:  Check your OS specific guidelines.

CTE0242E  Value value for parameter parameter-name is invalid.

Explanation:  The search stored procedure or the table valued function DB2EXT.TEXTSEARCH was called with invalid parameters.

User response:  Correct the parameter values of the search stored procedure or SQL table-valued function. For valid parameters refer to the documentation.
**CTE0243E** The cache for text index `%1.%2` has not been activated.

**Explanation:** A Net Search Extender operation requires an activated cache. The cache is currently not activated. These are the possible reasons: The cache has never been activated after the last DB2TEXT START command. The cache has been explicitly deactivated with the DB2TEXT DEACTIVATE CACHE command.

**User response:** Perform a DB2TEXT ACTIVATE CACHE command for the index and rerun the Net Search Extender operation.

---

**CTE0244E** Internal error: call to `%1 returns rc=%2, SQLCODE=%3.

**Explanation:** An internal processing error occurred when calling an internal function.

**User response:** If the error persists, start a trace and check the db2diag.log. Report the error.

---

**CTE0245E** The requested cache size exceeds the available cache size. Increase the maximum cache size to a value > `%1 or decrease the pctfree value.

**Explanation:** The cache size necessary to load all data exceeds the MAXIMUM CACHE SIZE value for an index. This can be detected during activation of the cache (the DB2TEXT ACTIVATE command), or by an index update operation while the cache is activated.

**User response:** If the error was reported in a DB2EXT ACTIVATE command, recalculate the maximum cache size using the DB2EXT.MAXIMUM_CACHE_SIZE function and alter the MAXIMUMCACHE SIZE setting for the index. Eventually decrease the PCTFREE value. If the maximum number of documents is exceeded during incremental update, rebuild the cache with the commands db2 deactivate cache and db2text activate cache recreate.

---

**CTE0246E** File `%1` is empty.

**Explanation:** A DB2TEXT CREATE INDEX command failed because the document model file specified in the command is empty.

**User response:** Specify a valid document model file in the command.

---

**CTE0247E** A Net Search Extender stored procedure could not be created.

**Explanation:** A DB2TEXT ENABLE DATABASE command failed to create the internal stored procedure DB2EXT.CTESRVSP.

**User response:** Check the additional DB2 error message associated with a CREATE PROCEDURE statement for details. If the error cannot be corrected by removing an existing stored procedure with an identical name, start a trace and report the error.

---

**CTE0248E** The generated search string is too long. Reduce the complexity of search query.

**Explanation:** A Net Search Extender query is too long or too complex to be processed by the base search engine. The complexity is affected by thesaurus expansions, FUZZY FORM OF expressions, and masking characters.

**User response:** Reduce complexity or length of the query.

---

**CTE0249E** The executable program named `program-name` terminated abnormally.

**Explanation:** While executing a Net Search Extender (NSE) command, the database manager ran the named executable program. That program terminated abnormally.

**User response:**
1. Verify, that the executable was not terminated explicitly by user interaction.
2. If the program was not terminated by a user, rerun the command that failed.
3. If the problem persists:
   • Turn on the DB2 trace utility to collect diagnostic information.
   • Rerun the command that failed
   • If the command fails again, contact DB2 support with the collected diagnostic information.

---

**CTE0250E** The return type `%1 of column type transformation function `%2.%3 is not supported.

**Explanation:** In a DB2TEXT CREATE INDEX command a column type transformation was specified that returns an unsupported datatype. Supported datatypes are: CHARACTER, VARCHAR, LONG VARCHAR (deprecated), CLOB, GRAPHIC, VARGRAPHIC, LONG VARGRAPHIC (deprecated), DBCLOB, BLOB, and XML.

**User response:** Choose a different column type transformation function.

---

**CTE0251E** The column type `%1 is not supported.

**Explanation:** A column type is used that is not in the list of supported types.

**User response:** Check create index for a list of valid columns for Keys and Indexing. Make the appropriate changes to the command and try again. If the error persists, start a trace and also check the db2diag.log. Report the error to IBM Services.
<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTE0252E</td>
<td>The parameter <code>%1</code> is missing.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> Internal error - when executing a Net Search Extender command, an administration executable program was called with a missing parameter <code>%1</code>.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Try to change Net Search Extender parameter commands to avoid the problem. If the error persists, switch on the trace function and report the error to IBM Services.</td>
</tr>
<tr>
<td>CTE0253E</td>
<td>The document listed in the log view was not found.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> The contents of a text document that is listed in the log view has changed and could not be accessed.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Check that the document exists and the read/access permissions of the text documents to be included in the index.</td>
</tr>
<tr>
<td>CTE0254E</td>
<td>The cache for index <code>%1</code> is already activated.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> The index has already been activated with the ACTIVATE CACHE command.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Check the specified index name and the database that you are using.</td>
</tr>
<tr>
<td>CTE0255E</td>
<td>A column name for a cache result column expression is missing. Add &quot;AS &lt;cache column name&gt;&quot; to the expression.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> A cache result column expression must be named. For example: 'C1+C2 AS myresult'.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Add &quot;AS &lt;cache column name&gt;&quot; to the expression.</td>
</tr>
<tr>
<td>CTE0256E</td>
<td>The query necessary to select data for indexing failed. Reduce the complexity of the attribute, cache table, or the initial search result order expressions.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> Net Search Extender creates a query from the expressions in your command to select data for indexing from the database. The query failed because it was too complex.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Reduce the complexity of attribute, cache table, or initial search result order expressions.</td>
</tr>
<tr>
<td>CTE0257E</td>
<td>Error creating shared memory.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> The shared memory resource could not be created due to a previous error or permission problem.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Check db2diag.log for further information, or clean up your shared resources. See also error CTE0183E.</td>
</tr>
<tr>
<td>CTE0258E</td>
<td>Shared memory version error.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> The shared memory resource could not be accessed because it is corrupted or there is a version conflict.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Check db2diag.log for further information. Disable and re-enable the database and then try again.</td>
</tr>
<tr>
<td>CTE0259E</td>
<td>Cannot insert entry in global shared memory. Entry already exists.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> An entry to be inserted in global shared memory already exists because of a previous error.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Check db2diag.log for further information. Restart the update and locking services using the commands db2text stop and db2text start.</td>
</tr>
<tr>
<td>CTE0260E</td>
<td>Cannot access entry in global shared memory. Entry not found.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> An entry to be removed from global shared memory does not exist because of a previous error.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Check db2diag.log for further information. Try to restart the update and locking services using the commands db2text stop and db2text start.</td>
</tr>
<tr>
<td>CTE0261E</td>
<td>There is at least one cache activated for a text index in this instance. Deactivate the cache for any activated index using the DEACTIVATE CACHE command, or use the FORCE option to stop.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> The db2text stop command can only be used if you run a DEACTIVATE CACHE command for all text indexes that have been activated with the ACTIVATE CACHE command.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Deactivate the cache for any activated index using the DEACTIVATE CACHE command or use the FORCE option to stop.</td>
</tr>
<tr>
<td>CTE0262E</td>
<td>The value for parameter <code>%1</code> is too long.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> The value exceeds the maximum allowable size.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Check the maximum size.</td>
</tr>
<tr>
<td>CTE0263E</td>
<td>The text index <code>%1,%2</code> was created with the RECREATE INDEX ON UPDATE option. In this context, the UPDATE MINIMUM or COMMITCOUNT FOR UPDATE may not be specified.</td>
</tr>
</tbody>
</table>

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**Explanation:** Update minimum and commitcount for update are only effective if the index is updated incrementally.

**User response:** If you want to recreate the index each time an update is performed, remove the UPDATE MINIMUM and COMMITCOUNT FOR UPDATE settings. If you want to use UPDATE MINIMUM and COMMITCOUNT FOR UPDATE, do not specify RECREATE INDEX ON UPDATE.

---

**CTE0264E** Errors occurred in an activate index operation. Check event view %1.%2 and the db2diag.log for details.

**Explanation:** During the index activate process, errors are written to the event table and the db2diag.log file.

**User response:** Check the event table for more information about the document errors. Clean up the event log after the problems have been fixed.

---

**CTE0265E** The table space of a user table or administration table space (%1) is not only defined on node 0.

**Explanation:** If text indexes are created on MPP instances, the table space of the user table must only reside on Node0.

**User response:** Use a table where the table space resides on Node0.

---

**CTE0266E** ValueFrom %1 must be smaller than ValueTo %2.

**Explanation:** The values specified in the attribute search are not valid. If the search syntax is BETWEEN ValueFrom AND ValueTo, the lower boundary (ValueFrom) must be smaller than upper boundary(ValueTo).

**User response:** Change the boundaries in the BETWEEN ValueFrom AND ValueTo clause.

---

**CTE0267E** The Net Search Extender database objects in the database %1 are in an inconsistent state.

**Explanation:** At least one Net Search Extender object is missing or corrupted. Either the database has not been migrated after installation of a new Net Search Extender product version, or a database user has changed or dropped Net Search Extender internal object(s). In this case, all text indexes are lost and the database has to be disabled for text.

**User response:** For a database migration to the current version please follow the migration description found in the Net Search Extender documentation. Alternatively, issue a DB2TEXT DISABLE DATABASE command using the FORCE option. You can then enable the database for text again by using the DB2TEXT ENABLE DATABASE command.

---

**CTE0270E** Logtable %1.%2 could not be modified after incremental update. Entries are to be processed during the next UPDATE.

**Explanation:** When starting an incremental index update, a timestamp is created. This serves as a threshold for change records to be processed. Changes occurring concurrently to the incremental update are then processed later, during the next update. In certain situations, there can be changes in transactions that are uncommitted at the time the update starts, but are committed while the index update is being performed. This may potentially lead to inconsistencies.

To avoid such an inconsistent situation, the change records prior to the threshold timestamp are not deleted from the logtable, although they have been partially processed. On the next incremental update the changes will be re-applied to the index.

**User response:** On the next index update the changes are re-applied to the index. In case of delete operations, this can lead to the following error: CTE0101E: ItEnReasonCode_Docmap__docid_not_found.

Note that this error can be ignored, as the document was already deleted. If CTE0270E errors frequently occur, consider dropping and re-creating the index with a modified timestamp threshold for incremental index update. For example: db2text "CREATE INDEX ... INDEX CONFIGURATION(UPDATEDELAY 30)"

This means that processing during an incremental update run only changes records older than 30 seconds and avoids interference with concurrent change transactions of less than 30 seconds.

---

**CTE0271E** Cache not usable, DEACTIVATE and ACTIVATE RECREATE required.

**Explanation:** The cache is in an inconsistent state because the maximum cache size has been reached.

**User response:** Check that the maximum cache size is still sufficient. Then call the following db2text commands: DEACTIVATE CACHE and ACTIVATE CACHE RECREATE.

---

**CTE0272E** Insufficient cache size. Increase the PCTFREE value or use DEACTIVATE and ACTIVATE [RECREATE] to recreate the cache.

**Explanation:** All reserved memory for the cache has been used.

**User response:** Rebuild the cache by using the following sequence of db2text commands: DEACTIVATE CACHE, ALTER INDEX MAXIMUM CACHE SIZE, and ACTIVATE CACHE RECREATE.
CTE0273E  The cache for index %1, %2 is already activated.
Explanation: The index has already been activated with the ACTIVATE CACHE command.
User response: Check the specified index name and the database that you are using.

CTE0274E  The target database system %1 for the connection is not supported.
Explanation: You tried to execute a DB2TEXT command with a connection to a database system that is not supported by Net Search Extender.

CTE0275E  The type and version information for server %2 could not be found.
Explanation: The type and version information for the server could not be found in the DB2 catalog view 'SERVERS'.
User response: Make sure that the DB2 federated environment is set up correctly.

CTE0277E  A cache memory segment could not be attached.
Explanation: The system cannot allocate enough memory to load a large cache segment, or the cache segment cannot be opened because it has been previously deleted.
User response: Check your system settings and increase the amount of paging space and free memory. For large cache sizes you may need to prepare your system. Refer to the Net Search Extender documentation. Use the DEACTIVATE and ACTIVATE [RECREATE] commands to recreate the cache. If the problem persists, check db2diag.log for additional information.

CTE0278E  On an AIX 32-bit system, change the MAXDATA setting before activating a large cache.
Explanation: When you use the search stored procedure on an AIX 32-bit system, you may need to change the MAXDATA setting for the db2fmp executable.
User response: Refer to the Net Search Extender documentation for details about changing the MAXDATA setting.

CTE0279E  The size of the cached data has reached a system limit.
Explanation: By decreasing the PCTFREE value, you can increase the maximum data size during cache activation. This enables the system to reserve less freespace in the cache.
User response: Use a lower PCTFREE value or reduce your amount of text data to be cached. Use the DEACTIVATE and ACTIVATE [RECREATE] commands to recreate the cache.

CTE0280E  There is not enough disk space to write persistent cache files.
Explanation: The system can not write a large enough file for persistent cache in the cache directory.
User response: Change the persistent cache directory to an empty file system by using the ALTER INDEX command. Alternatively, reduce the cache size by decreasing the PCTFREE or MAXIMUM CACHE SIZE values or by using a temporary cache.

CTE0281E  Deletion of persistent cache file %1 has failed.
Explanation: The file does not exist or cannot be accessed.
User response: Check if this file still exists and delete it manually.

CTE0282E  The number of documents in the cache has reached a system limit.
Explanation: By decreasing the PCTFREE value, you can increase the maximum number of document entries to be cached during cache activation. This enables the system to reserve less freespace in the cache.
User response: Use a lower PCTFREE value or reduce the amount of document entries in the cache. Use the DEACTIVATE and ACTIVATE [RECREATE] commands to recreate the cache.

CTE0283E  A cache memory segment could not be created.
Explanation: The system cannot allocate enough memory for loading a large cache segment into memory. By decreasing the PCTFREE value, you achieve a smaller cache segment size.
User response: Check your system settings and increase the amount of paging space and free memory. You can also decrease the cache size by using a lower PCTREE value. For large cache sizes, you may need to prepare your system. Refer to the Net Search Extender documentation. Use the DEACTIVATE and ACTIVATE [RECREATE] commands to recreate the cache. If the problem persists, check db2diag.log for additional information.
The text index is located on node %1, but the search function was called on node %2.

Explanation: The search stored procedure or table valued function DB2EXT.TEXTSEARCH was not called on the node where the index is located. The search function will not automatically be distributed to the correct node.

User response: Set the DB2NODE environment variable to the node where the index is connected before connecting to the database.

Search function is not allowed for a text index which is distributed to multiple nodes.

Explanation: The table valued function DB2EXT.TEXTSEARCH must not be called with indexes that are distributed to multiple nodes, since it will not be automatically distributed to the correct nodes, but executed on the coordinator node.

User response: Use the CONTAINS, SCORE or NUMBEROFMATCHES function in a multiple node environment.

No row found in %1."IBMSNAP_REGISTER" for source table %2,%3 and capture change table %4,%5.

Explanation: No valid entry was found in the IBMSNAP_REGISTER table for the replication capture table characteristics specified in the DB2TEXT CREATE INDEX command. A valid entry must contain the specified source table for the index in columns SOURCE_OWNER and SOURCE_NAME, with SOURCE_VIEW_QUAL=0 and the specified replication capture table in columns PHYS_CHANGE_OWNER and PHYS_CHANGE_TABLE.

The specified source table was not registered as a replication source for the replication capture table.

User response: Register the source table correctly for DB2 Replication, or specify a correct replication capture table for the source table.

Invalid value %1 for %2 in %3."IBMSNAP_REGISTER" for source table %4,%5 and capture change table %6,%7.

Explanation: A replication setting found in the IBMSNAP_REGISTER table is not allowed. Possible causes: 1.The column CHG_UPD_TO_DEL_INS does not contain the value 'Y'. 2.The column CCD_CONDENSED contains the value 'Y'.

User response: When registering the source table for DB2 Replication, ensure that update operations are transformed into pairs of delete and insert operations. In addition, ensure that no condensed replication capture tables are used.

Source table %1,%2 and capture change table %3,%4 are on different servers (%5 and %6).

Explanation: The specified source table and replication capture table must reside on the same server.

The wrapper %1 is not supported.

Explanation: The wrapper is not supported. Refer to the Net Search Extender documentation for a list of supported wrappers.

The alias %1,%2 is not allowed in the replication clause.

Explanation: You are not allowed to specify an alias for a nickname in a replication clause.

User response: Specify the nickname instead of the alias, or create a new nickname for the remote table.

The specified format is not allowed for a column of type XML.

Explanation: For columns of type XML only the 'XML' format is allowed.

User response: Specify format 'XML' or none.

Windows Exception %1 was caught, address=%2, flags=%3.

Explanation: A windows exception occurred. Exception name, address and flags are provided.

Windows exception %1 was caught.

Explanation: A Windows exception occurred.

Search argument processing problem.

Explanation: A search argument processing error occurred due to an incorrect environment setup.

User response: Check that the locale charmap value matches the DB2 code page and is available on the system.

Invalid CCSID %1 specified for non-binary text column.

Explanation: For non-binary text column data types, DB2 always stores the data in the database CCSID. Only the database CCSID is valid for non-binary text columns.
User response: Omit the CCSID-clause or specify a valid CCSID.

CTE0296E The library %1 cannot be found on %2. Please check the Net Search Extender installation.

Explanation: You tried to execute a Net Search Extender command by using the DB2 Control Center. Net Search Extender is not installed correctly on the target system.

User response: Check if Net Search Extender is installed correctly on the target system.

CTE0297E The database %1 is associated with DB2 Text Search

Explanation: You are not allowed to associate a database with more than one text search component.

User response: If you want to continue using DB2 Text Search with the database, then no action is required. If you would rather use DB2 Net Search Extender, disable the database from DB2 Text Search and try this command again.

CTE0298E The database %1 is already associated with DB2 Text Search. This command cannot be executed.

Explanation: You are not allowed to associate a database with more than one text search component.

User response: If you do not want to use DB2 Net Search Extender, disable the database using the DB2TEXT DISABLE DATABASE command. If you would rather use DB2 Net Search Extender, try this command again after disabling the database with DB2 Text Search.

CTE0300N User user-id does not have authority to create text index on the table schema-name.table-name.

Explanation: "CREATE INDEX .. FOR TEXT" requires one of the following:
• DBADM authority
• CONTROL privilege on the table
• INDEX privilege on the table with either IMPLICIT_SCHEMA privilege on the database or CREATEINDEX privilege on the index schema.

For more information about DB2 Net Search Extender create index, see the topic called "Net Search Extender CREATE INDEX command" in the DB2 Information Center.

User response: Ensure that the user has authority to perform the create index operation.

CTE0301E The instance owner does not have the authority to perform the Net Search Extender command.

Explanation: The user attempted to run a text index command without the instance owner id holding the appropriate authority.

Different DB2 Text Search index commands require varying levels of database authority. For a list of required authorities for DB2 Net Search Extender commands, see the topic called "DB2 Net Search Extender command authority requirements" in the DB2 Information Center.

User response: Ensure that the instance owner has DBADM with DATAACCESS authority in order for the user to perform Net Search Extender operations.

CTE0302E User user-id does not have authority to update the DB2 Net Search Extender index named index-schema-name.index-name.

Explanation: Update text index requires one of the following:
• DATAACCESS authority
• CONTROL privilege on the table.

For more information about DB2 Net Search Extender update, see the topic called "Net Search Extender UPDATE INDEX command" in the DB2 Information Center.

User response: Ensure that the user has authorization to perform the update index operation.

CTE0303N Table column column-name.table-name has no valid and active text index.

Explanation: A text search query on a table column failed because it has no valid and active text index.

User response: Ensure that the table column has a valid and active text index before performing a text search query.

If the table column has an invalid text index, drop the text index and create a new one.

For example, a text index gets invalidated if the underlying base table is dropped and recreated.

CTE0304N Index schema-name.index-name is not valid and cannot be used.

Explanation: The text index is invalid and cannot be updated or used.

User response: Drop and recreate the invalid text index.
CTE0305E Failed to retrieve the text-maintained dependent tables for `schema-name.table-name`.

Explanation: The command executes a query to retrieve information from the text index administration tables. Querying the text index information failed.

User response: Ensure that the text index administration tables are accessible. For more information see the db2diag.log.

CTE0306E The specification of a COMMITCOUNT value is not allowed for a text index created with the REPLICATION CAPTURE TABLE option.

Explanation: If the REPLICATION CAPTURE TABLE option is specified the COMMITCOUNT value cannot be specified for the index.

User response: Retry the command without the COMMITCOUNT option for the index since REPLICATION CAPTURE TABLE option is being used.

CTE0307N The table specified in the replication clause must not be a view.

Explanation: The viewname has been specified in the replication clause instead of the table name.

User response: Retry command with the view name replaced with the table name for the replication clause.

CTE0308N A text index on a view cannot be created using the REPLICATION CAPTURE TABLE option.

Explanation: The viewname has been specified in the replication clause instead of the table name.

User response: Retry command with the view name replaced with the table name for the replication clause.

CTE0309W Search result truncated by mask limit.

Explanation: The result set for the search was truncated due to the mask resolution limit.

User response: To get the complete set of results for the search query, increase the mask resolution limit and re execute the search query.

CTE0310N Net Search Extender index update failed due to insufficient disk space for index `schema-name.index-name` in database `database-name`. Required disk space: `required-disk-space` KB. Available disk space: `available-disk-space` KB.

Explanation: The available space for index update is less than the estimated disk space required.

User response: Check the available free space on the file system that holds the index and work directories for the index.

Increase the available space on the file system and try to update the index again.

CTE0311E The CREATE INDEX command is missing the "ADMINISTRATION TABLES IN" clause for a partitioned table.

Explanation: The command syntax is incorrect.

User response: Check the command syntax. Verify that you have specified the ADMINISTRATION TABLES IN clause in the CREATE INDEX command for partitioned tables.

CTE0312E A common secondary group does not exist for a fenced user and an instance owner.

Explanation: A common secondary group is required for a fenced user and an instance owner.

User response: Add a common secondary group for fenced user and instance owner.

CTE0360E Index update is not allowed due to insufficient disk space.

Explanation: Do not update the index as the available space for index update is less than the estimated disk space required.

User response: Check the available free space for the file system that contains the index and work directory for the index. Increase the available space on the file system and try updating index again.

CTE0451E The specified document format %1 is not supported by the highlighting UDF.

Explanation: The document format %1 does not support highlighting.

User response: Use a document format that is supported by the highlighting UDF.

CTE0452E Syntax error near option %1 in the highlighting UDF.

Explanation: You specified an incorrect syntax near the specified option.

User response: Check the syntax near option %1. Correct and try again.
CTE0453E  The return size of the highlighting UDF is too small.

Explanation: The requested parts of the highlighted document does not fit into the return parameter of the highlighting UDF.

User response: Decrease the window number, the window size and/or the number of sections from which hits should be displayed. This will reduce the document parts returned to the user.

CTE0454E  Error converting the parameters of the highlighting UDF from codepage %1 to codepage UTF8.

Explanation: The parameters of the highlighting UDF in the specified CCSID (which may be the default database CCSID), cannot be converted to UTF8.

User response: Ensure correct specification of the CCSID.

CTE0455E  The database codepage %1 is not supported in the highlighting UDF.

Explanation: The database has a codepage which is not supported by the highlighting UDF.

CTE0456E  The highlighting UDF only supports documents in codepage UTF8.

Explanation: Only documents in codepage UTF8 support the highlighting UDF.

CTE0457E  The value %1 for parameter %2 is not valid in the highlighting UDF.

Explanation: A value for a highlighting parameter is not valid.

User response: Check the parameter value and ensure that the value is allowed in the data range.

CTE0458E  Usage: db2exthl <new size in kilo bytes>.

Explanation: The parameter for the db2exthl utility is not correct.

User response: Provide a value between 1 and 1048576.
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CTE0841E Missing command option %1.
Explanation: A required command option was not specified.
User response: Check the specified parameters and add the missing parameter.

CTE0842E No value is specified for the command option %1.
Explanation: A required value for a command option was not specified.
User response: Check the specified parameters and add the missing option.

CTE0843E No numeric value is specified for the command option %1.
Explanation: A string instead of a number has been specified.
User response: Check the specified parameters and change the string to the correct number.

CTE0844E The definition file path %1 is too long.
Explanation: The specified path is too long and could not be processed.
User response: Use a shorter path and try again.

CTE0845E No definition file is specified.
Explanation: The definition file needs to be specified.
User response: Add a valid definition file and try the call again.

CTE0846E The definition file name %1 is too long.
Explanation: The specified definition file name is too long.
User response: Reduce the length of the definition file name to the size allowed.

CTE0847E The definition file %1 does not exist.
Explanation: The specified definition file could not be found.
User response: Check that the definition file is in the correct path and can be accessed by the current user.

CTE0849E The dictionary file %1 could not be locked.
Explanation: The process was not able to lock the dictionary file. Either you do not have write access, or another process has opened the file for writing.
User response: Check the running processes to ensure that no process is locking the dictionary file and check your access rights.

CTE0850E Output file %1 already exists.
Explanation: The specified output file could not be overwritten.
User response: Check that you are able to create the thesaurus in the specified directory.

CTE0851E The integrity of the dictionary file %1 is lost.
Explanation: The thesaurus dictionary files are corrupted.
User response: Clean up the directory and compile your definition file again.

CTE0852E Dictionary file %1 version error.
Explanation: Your dictionary file was generated with an older version of the thesaurus compiler.
User response: Compile your definition file again with the current version of the thesaurus compiler.

CTE0853E The existing dictionary %1 cannot be overwritten.
Explanation: An existing dictionary cannot be overwritten.
User response: Check your write access right on the dictionary file, its directory location and subdirectory location.

CTE0855E A thesaurus term is incorrectly specified.
Explanation: There is a syntax error in your definition file.
User response: Check your Net Search Extender documentation for information on creating a thesaurus definition file and thesaurus support.

CTE0856E The definition file %1 is empty.
Explanation: An empty definition file is not allowed.
User response: Check your Net Search Extender
documentation for information on creating a thesaurus definition file and thesaurus support.

CTE0857E  No block starting line found in file file-name at line line-number.
Explanation: There is a syntax error in your thesaurus definition file.
User response: A block has to start with 'WORDS'. Check your Net Search Extender documentation for information on thesaurus concepts.

CTE0858E  An invalid relationship is specified in file %1 at line %2.
Explanation: There is a syntax error in your definition error.
User response: You have to examine your 'associated-term-definition'. Check your Net Search Extender documentation for information on creating a thesaurus definition file.

CTE0859E  The relationship number is out of range in file %1 at line %2.
Explanation: The user-defined relationships are all based on the associative type. They are identified by unique numbers between 1 and 128.
User response: Verify your relationship numbers.

CTE0860E  No terms are defined in file %1 at line %2.
Explanation: Required terms are not specified.
User response: Check your Net Search Extender documentation for information on creating a thesaurus definition file.

CTE0861E  The thesaurus term in file %1 at line %2 is too long.
Explanation: The length of the thesaurus term is restricted to 64 bytes.
User response: Alter the size of your thesaurus term and try again.

CTE0862E  Strength is incorrectly specified in file %1 at line %2.
Explanation: There is a syntax error in your definition file.
User response: Check your Net Search Extender documentation for information on creating a thesaurus definition file and thesaurus support.

CTE0863E  Strength is out of range in file %1 at line %2.
Explanation: The strength value should be specified between 1 and 100.
User response: Change the strength value so that it is a numerical value from 1 to 100.

CTE0864E  Internal error: Thesaurus compiler failed with reason code %1.
Explanation: An internal processing error occurred that does not allow further processing. Try to start and stop the update and locking services, as well as DB2.
User response: If the error persists, start a trace and also check the db2diag.log.

CTE0865E  The directory %1 could not be created.
Explanation: The specified directory could not be created.
User response: Check if the directory already exists and the permissions on the directory.

CTE0866E  The directory %1 could not be removed.
Explanation: The directory could not be removed.
User response: Check that you have write permissions on the specified directory.
Chapter 58. CTE5000 - CTE5499

CTE5251E The checknseindex command failed because the following invalid parameter or value was specified: invalid-input.

Explanation: To enable Net Search Extender (NSE) to search more efficiently through documents that are stored in a DB2 database, you can create an NSE text index on the documents. An NSE index consists of significant terms that are extracted from those documents.

To troubleshoot problems with NSE indexes, you can validate an NSE index by using the checknseindex utility.

This message is returned when the checknseindex command is invoked with an invalid parameter. There are multiple ways this error could occur, including the following examples:

- An erroneous parameter was specified.
- A parameter was specified twice.
- A parameter was specified in upper case. (The parameters for the checknseindex command must be specified in lower case.)
- A mandatory parameter was not specified.

User response:
1. Review the checknseindex command syntax by issuing the following command:
   checknseindex -h
2. Issue the checknseindex command again, specifying valid parameters.

CTE5252E The checknseindex command failed because a required parameter was not specified. Missing parameter: missing-parameter.

Explanation: To enable Net Search Extender (NSE) to search more efficiently through documents that are stored in a DB2 database, you can create an NSE text index on the documents. An NSE index consists of significant terms that are extracted from those documents.

To troubleshoot problems with NSE indexes, you can validate an NSE index by using the checknseindex utility.

This message is returned when the checknseindex command is invoked and one or more required parameters were not specified.

User response:
1. Review the checknseindex command syntax by issuing the following command:
   checknseindex -h
2. Issue the checknseindex command again, specifying values for all parameters that require a value to be specified.

CTE5253E The checknseindex command failed because no value was specified for the following parameter: parameter.

Explanation: To enable Net Search Extender (NSE) to search more efficiently through documents that are stored in a DB2 database, you can create an NSE text index on the documents. An NSE index consists of significant terms that are extracted from those documents.

To troubleshoot problems with NSE indexes, you can validate an NSE index by using the checknseindex utility.

This message is returned when the checknseindex command is invoked and no value was specified for a parameter that requires a value.

User response:
1. Review the checknseindex command syntax by issuing the following command:
   checknseindex -h
2. Issue the checknseindex command again, specifying values for all parameters that require a value to be specified.

CTE5254E The NSE index validation utility failed to validate the specified index because the utility could not access the specified path. Specified path: specified-path.

Explanation: To enable Net Search Extender (NSE) to search more efficiently through documents that are stored in a DB2 database, you can create an NSE text index on the documents. An NSE index consists of significant terms that are extracted from those documents.

To troubleshoot problems with NSE indexes, you can validate an NSE index by using the checknseindex utility.

This message is returned when the checknseindex utility cannot access the NSE index directory path that was specified with the -p parameter. There are multiple ways this error could occur, including the following examples:

- The specified path does not exist.
- The checknseindex utility does not have required access permissions for the specified path. (The
checknseindex utility runs with the same privileges as the user who calls the checknseindex command.

User response:
1. List information about current NSE indexes, including index directories, by using the db2ext.textindexes view.
2. Verify that the specified NSE index directory path exists.
3. Verify that the user who is running the checknseindex command has read permission for the specified NSE index directory path.
4. Issue the checknseindex command again, specifying a valid NSE index directory path.

CTE5255E The NSE index validation utility failed because the utility could not find the specified NSE index in the specified path. Specified NSE index: specified-index. Specified path: specified-path.

Explanation: To enable Net Search Extender (NSE) to search more efficiently through documents that are stored in a DB2 database, you can create an NSE text index on the documents. An NSE index consists of significant terms that are extracted from those documents.

To troubleshoot problems with NSE indexes, you can validate an NSE index by using the checknseindex utility.

This message is returned when the checknseindex utility cannot find the NSE index directory path that was specified with the -p parameter.

User response:
1. List information about current NSE indexes, including index directories, by using the db2ext.textindexes view.
2. Issue the checknseindex command again, specifying a valid NSE index and index directory path.

CTE5256E The NSE index validation utility failed to validate the specified index because the utility was unable to validate the NSE mapping index. Reason code: reason-code. Diagnostic data: data.

Explanation: To enable Net Search Extender (NSE) to search more efficiently through documents that are stored in a DB2 database, you can create an NSE text index on the documents. An NSE index consists of significant terms that are extracted from those documents.

To troubleshoot problems with NSE indexes, you can validate an NSE index by using the checknseindex utility.

The checknseindex utility validates a specified NSE index by investigating several internal structures of the NSE index, including the NSE mapping index and the NSE internal index. This message is returned when the checknseindex utility encounters an internal, unhandled error while attempting to investigate the NSE mapping index.

There are multiple ways this error could occur. The reason code indicates more specifically why the checknseindex utility failed. Possible reason codes include the following:

1. The checknseindex utility was unable to allocate memory for an internal structure.
2. The checknseindex utility was unable to open an internal file that is related to the NSE mapping index.

The diagnostic details in the data runtime token are useful for IBM support personnel only. The runtime token data might sometimes be empty.

User response: Run the checknseindex command again.

If this error continues, contact IBM support for assistance.

CTE5257E The NSE index validation utility found the NSE mapping index to be invalid. Reason code: reason-code. Diagnostic data: data.

Explanation: To enable Net Search Extender (NSE) to search more efficiently through documents that are stored in a DB2 database, you can create an NSE text index on the documents. An NSE index consists of significant terms that are extracted from those documents.

To troubleshoot problems with NSE indexes, you can validate an NSE index by using the checknseindex utility.

The checknseindex utility validates a specified NSE index by investigating several internal structures of the NSE index, including the NSE mapping index and the NSE internal index. This message is returned when the checknseindex utility determines that the NSE mapping index is not valid.

There are multiple ways this error could occur. The reason code indicates more specifically why the NSE mapping index is not valid:

1. NSE mapping index-related files are damaged or contain invalid contents.
2.
Data control records are invalid.

Index control records are invalid.

The size of the reverse mapping file does not match the expected file size.

The diagnostic details in the data runtime token are useful for IBM support personnel only. The runtime token data might sometimes be empty.

**User response:** If this error continues, either recreate the index or contact IBM support for assistance.

---

**CTE5258I** The NSE index validation utility found the NSE mapping index to be valid.

**Explanation:** To enable Net Search Extender (NSE) to search more efficiently through documents that are stored in a DB2 database, you can create an NSE text index on the documents. An NSE index consists of significant terms that are extracted from those documents.

To troubleshoot problems with NSE indexes, you can validate an NSE index by using the checknseindex utility.

The checknseindex utility validates a specified NSE index by investigating several internal structures of the NSE index, including the NSE mapping index and the NSE internal index. This message is returned when the checknseindex utility determines that the NSE mapping index is valid.

**User response:** No user response is required.

---

**CTE5259E** The NSE index validation utility failed to validate the specified index because the utility was unable to validate the NSE internal index.

**Explanation:** To enable Net Search Extender (NSE) to search more efficiently through documents that are stored in a DB2 database, you can create an NSE text index on the documents. An NSE index consists of significant terms that are extracted from those documents.

To troubleshoot problems with NSE indexes, you can validate an NSE index by using the checknseindex utility.

The checknseindex utility validates a specified NSE index by investigating several internal structures of the NSE index, including the NSE mapping index and the NSE internal index. This message is returned when the checknseindex utility determines that the NSE internal index is not valid.

**User response:** If this error continues, either recreate the index or contact IBM support for assistance.

---

**CTE5260E** The NSE index validation utility found the NSE internal index to be invalid.

**Explanation:** To enable Net Search Extender (NSE) to search more efficiently through documents that are stored in a DB2 database, you can create an NSE text index on the documents. An NSE index consists of significant terms that are extracted from those documents.

To troubleshoot problems with NSE indexes, you can validate an NSE index by using the checknseindex utility.

The checknseindex utility validates a specified NSE index by investigating several internal structures of the NSE index, including the NSE mapping index and the NSE internal index. This message is returned when the checknseindex utility determines that the NSE internal index is not valid.

**User response:** If this error continues, either recreate the index or contact IBM support for assistance.

---

**CTE5261I** The NSE index validation utility found the NSE internal index to be valid.

**Explanation:** To enable Net Search Extender (NSE) to search more efficiently through documents that are stored in a DB2 database, you can create an NSE text index on the documents. An NSE index consists of significant terms that are extracted from those documents.

To troubleshoot problems with NSE indexes, you can validate an NSE index by using the checknseindex utility.

The checknseindex utility validates a specified NSE index by investigating several internal structures of the NSE index, including the NSE mapping index and the NSE internal index. This message is returned when the checknseindex utility determines that the NSE internal index is valid.

**User response:** No user response is required.

---

**CTE5262E** The NSE index validation utility failed to validate the specified index because the utility was unable to confirm whether the NSE mapping index and the NSE internal index are consistent.

**Explanation:** To enable Net Search Extender (NSE) to search more efficiently through documents that are stored in a DB2 database, you can create an NSE text index on the documents. An NSE index consists of
To troubleshoot problems with NSE indexes, you can validate an NSE index by using the checknseindex utility.

The checknseindex utility validates a specified NSE index by investigating several internal structures of the NSE index, including the NSE mapping index and the NSE internal index. This message is returned when the checknseindex utility encounters an internal, unhandled error while attempting to compare the NSE mapping index with the NSE internal index.

**User response:** Run the checknseindex command again.

If this error continues, contact IBM support for assistance.

CTE5263E  The NSE index validation utility found the NSE mapping index and the NSE internal index to be inconsistent. Reason code: reason-code. Diagnostic data: data.

**Explanation:** To enable Net Search Extender (NSE) to search more efficiently through documents that are stored in a DB2 database, you can create an NSE text index on the documents. An NSE index consists of significant terms that are extracted from those documents.

To troubleshoot problems with NSE indexes, you can validate an NSE index by using the checknseindex utility.

The checknseindex utility validates a specified NSE index by investigating several internal structures of the NSE index, including the NSE mapping index and the NSE internal index. This message is returned when the checknseindex utility encounters an internal, unhandled error while attempting to compare the NSE mapping index with the NSE internal index.

There are multiple ways this error could occur. The reason code indicates more specifically why the NSE mapping index and the NSE internal index are not consistent with each other:

1. The total number of documents in the NSE mapping index does not match the total number of documents in the NSE internal index.
2. The highest document number in the NSE mapping index does not match the highest document number in the NSE internal index.
3. The highest document number in the NSE mapping index does not match the highest document number in the NSE internal index. This message is returned with reason code 3 when a mismatch in the highest document number is found after an incremental index update.

The diagnostic details in the data runtime token are useful for IBM support personnel only. The runtime token data might sometimes be empty.

**User response:** If this error continues, either recreate the index or contact IBM support for assistance.

CTE5264I  The NSE index validation utility found the NSE mapping index and the NSE internal index to be consistent.

**Explanation:** To enable Net Search Extender (NSE) to search more efficiently through documents that are stored in a DB2 database, you can create an NSE text index on the documents. An NSE index consists of significant terms that are extracted from those documents.

To troubleshoot problems with NSE indexes, you can validate an NSE index by using the checknseindex utility.

The checknseindex utility validates a specified NSE index by investigating several internal structures of the NSE index, including the NSE mapping index and the NSE internal index. This message is returned when the checknseindex utility determines that the NSE index is valid.

**User response:** No user response is required.

CTE5265I  The NSE index validation utility found the specified index, specified-index, to be valid.

**Explanation:** To enable Net Search Extender (NSE) to search more efficiently through documents that are stored in a DB2 database, you can create an NSE text index on the documents. An NSE index consists of significant terms that are extracted from those documents.

To troubleshoot problems with NSE indexes, you can validate an NSE index by using the checknseindex utility.

This message is returned when the checknseindex utility determines that the NSE index is valid.

**User response:** No user response is required.
CTE5266E The NSE index validation utility found the specified index, specified-index, to be invalid.

Explanation: To enable Net Search Extender (NSE) to search more efficiently through documents that are stored in a DB2 database, you can create an NSE text index on the documents. An NSE index consists of significant terms that are extracted from those documents.

To troubleshoot problems with NSE indexes, you can validate an NSE index by using the checknseindex utility.

This message is returned when the checknseindex utility determines that the NSE index is not valid.

User response: If this error continues, either recreate the index or contact IBM support for assistance.

CTE5270W NSE internal index key list is nearly full for index ID index-id. Create another NSE index for the column to avoid possible index reorganization failure.

Explanation: The NSE internal index key list has almost reached its threshold. The index is still functional and will continue to index documents. However, this condition can eventually cause index reorganization to fail.

User response: Create another NSE index for this column to avoid index reorganization failure.

CTE5268I Multiple NSE indexes exist on the same column column_name.

Explanation: More than one NSE index has been created on the specified column for the same schema, database and table.

The checknseindex utility can only validate one NSE index at a time.

User response:
1. Select an NSE index.
2. Run the checknseindex utility again for that index.

CTE5269W The internal key list is full for index ID index-id, which might cause index reorganization to fail.

Explanation: Net Search Extender indexes maintain an internal key list structure, index reorganization will fail if the key list structure get full.

This message is returned when the key list for the given index has reached its threshold. The index is still functional and will continue to index documents. However, this condition can cause index reorganization to fail.
Part 10. DB2 Messages

This section contains the messages generated by the command line processor. The command line processor returns DB2 and SQL messages. The messages are listed in numeric sequence.
Chapter 59. DB20000 - DB20499

DB20000I The command command completed successfully.

Explanation: No errors were encountered during the execution of this command.

User response: No action required.
Chapter 60. DB21000 - DB21499

DB21001E  The option option-letter specified after the 'db2' command or in the DB2OPTIONS variable is incorrect.

Explanation: The option specified is not supported. The supported options are:

Option Description
- a  Display SQLCA
- c  Auto-commit
- e  Display SQLCODE/SQLSTATE
- f  Read from input file
- l  Log commands in history file
- n  Remove new line character
- o  Display output
- p  Display interactive prompt
- r  Save output report to file
- s  Stop execution on cmd error
- t  Set stmt termination character
- v  Echo current command
- w  Display FETCH/SELECT warnings
- x  Suppress printing of column headings
- z  Save all output to file

The command cannot be processed.

User response: Resubmit the command with a valid option.

DB21002E  The parameter for option option-letter specified after the 'db2' command or in the DB2OPTIONS variable is missing or incorrect.

Explanation: The following lists the options with parameters:

Option Description
- ec  Display SQLCODE
- es  Display SQLSTATE
- f<filename> Read from input file <filename>
- l<filename> Log commands in history file <filename>
- r<filename> Save output report to file <filename>
- td<x>  Set termination char to 'x'
- z<filename> Save all output to file <filename>

User response: Resubmit the command with the valid option and parameter.

DB21003E  The value value in environment-variable is not valid.

Explanation: The value for DB2BQTRY must be between 0 and 4294967295. The value for DB2BQTIME, DB2RQTIME or DB2IQTIME must be between 1 and 4294967295.

User response: Set the environment variable with the correct value and resubmit the command.

DB21004E  You cannot specify both an input file and a command when invoking the Command Line Processor.

Explanation: You cannot specify both the -f option and a command line command when invoking the command line processor.

User response: Correct the error and issue the command again.

DB21005E  An error occurred while accessing the file filename.

Explanation: The following could have caused the error:
- file permissions do not allow file access
- the file does not exist

User response: Correct the error and try again.

DB21006E  The input command is too long. The maximum length is length.

Explanation: The input command cannot exceed the length specified.

User response: Correct the error and resubmit the command.

DB21007E  End of file reached while reading the command.

Explanation: The last command was not executed because end of file was reached. Terminate the last command with a '"' (or your defined termination character) if the -t option was used. Remove the '"' from the last line in the command if the +t option was used.

User response: Correct the error and resubmit the command.

DB21008E  Commands can only be entered from the command line processor interactive mode or file input mode.
**DB21009E**  **DB21018E**

**Explanation:** The user attempted to enter a command line processor command from the DOS prompt.

**User response:** Use command line processor interactive mode or file input mode.

---

**DB21009E**  **This command must be launched from a command window running with full administrative privileges.**

**Explanation:** You cannot run this command from a command window running with a reduced set of privileges. The DB2 installation provides you with the "Command Window - Administrator" shortcut that has the appropriate privileges to run this command.

**User response:** Launch the "Command Window - Administrator" shortcut and re-run the command.

---

**DB21010I**  **Help given for help-command-phrase.**

**Explanation:** This message only appears in the history file specified with the -l option.

**User response:** No action required.

---

**DB21011I**  **In a partitioned database server environment, only the table spaces on the current node are listed.**

**Explanation:** Only the table spaces on the current node are visible to the LIST TABLESPACES command.

**User response:** To list the table spaces on another node, you must issue the LIST TABLESPACES command on that node.

---

**DB21015E**  **The Command Line Processor backend process request queue or input queue was not created within the timeout period.**

**Explanation:** Either the values for the DB2BQTRY and DB2BQTIME environment variables need to be increased or the command line processor back-end program "db2bp" cannot be started. The "db2bp" program must reside in the correct database manager install path and users must have execute permission on the file.

On Linux and UNIX platforms, ensure that the file system has enough file blocks and inodes.

**User response:** Correct the error and resubmit the command.

---

**DB21016E**  **The Command Line Processor encountered a system error while sending the command to the back-end process.**

**Explanation:** One of the following could have happened:

- The backend process was abnormally terminated.
- A system error occurred when reading from or writing to the back-end process queues.
- A system error occurred when reading from the front-end process output queue.

**User response:** Retry the command. If the problem persists, record the DB2 message number. If the trace was active, save the trace information and contact your technical support with the following information:

- Problem description
• DB2 message number
• SQLCA if possible
• Trace file if possible

**DB21019E**  An error occurred while accessing the directory directory.

**Explanation:** The following could have caused the error:
• directory permissions do not allow access
• the directory does not exist

**User response:** Correct the error and resubmit the command.

**DB21020E**  Unable to create the default message file file.

**Explanation:** To properly process this command, CLP needs a file where the messages issued during processing are saved before they are displayed on the console. It attempted to create such a file in a directory normally used for that purpose (such as /tmp on UNIX platforms), but the attempt failed because the directory does not exist.

**User response:** Correct the error and resubmit the command.

**DB21021E**  No Admin Server instance is defined. The command failed.

**Explanation:** You issued a command that needs to use an Administration Server instance, but no such instance is defined.

**User response:** Define an Administration Server instance and resubmit the command.

**DB21022E**  Unable to switch to Administration Server instance instance-name.

**Explanation:** You issued a command that needs to use an Administration Server instance. Command line processor tried to switch to Administration Server instance instance-name but failed. The possible reasons may be:
• The Administration Server instance is not set correctly.
• Command line processor was already attached to a DB2 instance.
• Command line processor was connected to a database.

**User response:** Check that a valid Administration Server instance is set up before using this command. Also, you may need to issue the DETACH, or CONNECT RESET, or TERMINATE command before trying your request again.

---

**DB21023E**  The command is not valid when executed from Administration Server.

**Explanation:** You issued one of the following commands: GET DBM CONFIGURATION, RESET DBM CONFIGURATION, or UPDATE DBM CONFIGURATION, but these commands cannot be executed from Administration Server.

**User response:** Issue one of the following commands that are valid on Administration Server: GET ADMIN CONFIGURATION, RESET ADMIN CONFIGURATION, or UPDATE ADMIN CONFIGURATION.

**DB21024I**  This command is asynchronous and may not be effective immediately.

**Explanation:** This message is displayed after executing either a FORCE command with the ASYNC clause or a REORG TABLE command with the INPLACE clause.

**User response:** No action required.

**DB21025I**  One or more of the parameters submitted for immediate modification were not changed dynamically. Client changes will not be effective until the next time the application is started or the TERMINATE command has been issued. Server changes will not be effective until the next DB2START command.

**Explanation:** Some changes to the database manager configuration could not be applied immediately. For these parameters, the changes become effective only after DB2 is started. This typically occurs after a DB2START on a server and after the application restarts on a client.

**User response:** To see which parameter changes took effect dynamically and which ones did not, retrieve the database manager configuration parameters and display details using the following command:
```
DB2 LIST DBM CFG SHOW DETAIL
```

Changes to database manager configuration parameters can only take effect dynamically if you are attached to the instance. Not all configuration parameters support dynamic update. To see which parameters can be changed dynamically, refer to the Administration Guide.

If several parameters were submitted in a group, submit the parameters individually. In those cases where a configuration parameter could not change dynamically, do one or more of the following:
• for user applications: stop and start the application
• for CLP: TERMINATE and reconnect
• for a server: issue DB2STOP and DB2START
DB21026I  One or more of the parameters submitted for immediate modification were not changed dynamically. For these configuration parameters, all applications must disconnect from this database before the changes become effective.

Explanation: The database configuration command has been successfully processed. However, not all changes were processed right away. After the applications disconnect from the database, the first connection to the database will cause the changes to become effective.

User response: To see which parameter changes took effect dynamically and which ones did not, retrieve the database configuration parameters and display the parameter details using the following command:

```
DB2 GET DB CFG FOR <database-alias> SHOW DETAIL
```

Changes to database configuration parameters can only take effect dynamically if you are connected to the database. Not all configuration parameters support dynamic update. To see which parameters can be changed dynamically, refer to the Administration Guide.

If several parameters were submitted in a group, submit the parameters individually. In those cases where a configuration parameter could not change dynamically, do one or more of the following:

- Ensure that all applications disconnect from the database and issue a db2 connect to command
- Rebind your packages after the new configuration parameters take effect so that the new values will be used during the bind.
- Use the FLUSH PACKAGE CACHE command to invalidate dynamic statements in the SQL cache.

DB21027E  Isolation level may not be changed while connected to a database.

Explanation: The user attempted to change the isolation level while connected to a database. The command is ignored.

User response: If a change in isolation level is necessary, disconnect from the current database, then set the isolation level and re-connect to the database.

DB21028E  The cursor `cursor-name` has not been declared.

Explanation: The specified cursor needs to be declared before issuing an OPEN, FETCH, or CLOSE SQL statement.

User response: Declare the cursor and resubmit the command.

DB21029E  The cursor `cursor-name` has already been declared and opened.

Explanation: The user attempted to declare a cursor that is open.

User response: Close the cursor and resubmit the open command.

DB21030E  The cursor `cursor-name` has not been opened.

Explanation: The specified cursor needs to be opened.

User response: Open the cursor and resubmit the command.

DB21031E  The SQL statement using the cursor `cursor-name` (internal-cursor) returned:

Explanation: This message shows the internal cursor name for the user defined cursor. Some SQL error messages may show the internal cursor name. This message is displayed before the SQL message.

User response: Correct the SQL error and resubmit the command.

DB21032E  You have already declared the maximum number of cursors.

Explanation: Command line processor supports 100 cursors declared with the WITH HOLD attribute and 100 cursors declared without the WITH HOLD attribute.

User response: Re-declare one of the existing cursors and resubmit the command.

DB21033E  The command is not valid for this DB2 database server.

Explanation: The following commands are supported only when accessing a DB2 for Linux, UNIX, or Windows database server:

- LIST TABLES
- LIST PACKAGES
- REORGCHK
- INGEST

User response: Do not issue the command for this database.

DB21034E  The command was processed as an SQL statement because it was not a valid Command Line Processor command. During SQL processing it returned:

Explanation: You can execute database utilities, SQL statements, and online help using the DB2 command line processor (CLP). You can use the CLP in interactive mode, in command mode (where each command must
be prefixed by "db2"), or in batch mode.

This message is displayed in the following scenarios:
1. Text is passed to the CLP and it is not a valid CLP command.
2. An error occurs when the CLP passes the text to the database manager to process as an SQL statement. When this scenario happens, this message is returned, followed by the error message that was returned by the database manager.

This error can be caused by the following kinds of problems with the specified command or SQL statement:
- Text is passed to the CLP in command mode or in batch mode and there are special characters, such as quotes, in the text that are not identified with an escape character.
- There is a syntax error.

**User response**: Respond to this error in one of the following ways:
- If there are special characters, such as quotes, in the command, use an escape character, such as the backslash character, to cause the operating system shell to ignore those special characters.
- Correct the syntax error by performing the following steps:
  1. Review the full text of the error returned by the database manager to determine the cause of that error.
  2. Modify the command to correct the cause of the problem.
  3. Resubmit the command.

**DB21035E** The maximum number of items in the *list-name* list has been exceeded. The maximum number is *number*.

**Explanation**: The number of items in the list cannot exceed the maximum specified. This error may be caused by an invalid range specification.

**User response**: Correct the error and resubmit the command.

**DB21036E** The *command* command failed.

**User response**: Retry the command with the trace active. If the problem persists, save the trace information and contact your technical support with the following information:
- Problem description
- DB2 message number
- Trace file

**DB21037E** No data sources found.

**User response**: There were no ODBC data sources found of the type (USER or SYSTEM) that you specified. Retry the command by specifying the other type (SYSTEM or USER).

**DB21040E** *number* is not a valid in-doubt transaction number.

**Explanation**: *number* is not one of the listed in-doubt transaction numbers.

**User response**: Select one of the listed transaction numbers and resubmit the command.

**DB21041E** *number* indoubt transaction(s) not shown.

**Explanation**: Command line processor could not display all the in-doubt transactions. The number of transactions not displayed is *number*.

**User response**: Finish processing the current list of indoubt transactions in order to reduce the total number of indoubt transactions in the system. Next, reissue the list indoubt transactions command.

**DB21042E** You must specify a transaction number.

**Explanation**: A transaction number must be specified with the commit (c), rollback (r), or forget (f) in-doubt transaction subcommands.

**User response**: Reissue the command with the appropriate transaction number.

**DB21043E** *subcommand* is not a valid request.

**Explanation**: The in-doubt transaction subcommand specified is not valid. Valid subcommands are:

<table>
<thead>
<tr>
<th>Subcommand</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>c &lt;number&gt;</td>
<td>Heuristically commit the in-doubt transaction &lt;number&gt;.</td>
</tr>
<tr>
<td>r &lt;number&gt;</td>
<td>Heuristically rollback the in-doubt transaction &lt;number&gt;.</td>
</tr>
<tr>
<td>f &lt;number&gt;</td>
<td>Heuristically forget the in-doubt transaction &lt;number&gt;.</td>
</tr>
<tr>
<td>l &lt;number&gt;</td>
<td>List all in-doubt transactions or the in-doubt transaction &lt;number&gt;.</td>
</tr>
<tr>
<td>q</td>
<td>Exit LIST INDOUBT TRANSACTION prompting.</td>
</tr>
</tbody>
</table>

**NOTE**: The *number* command is not available in DB2 Extended Enterprise Edition.

**User response**: Correct the error and resubmit the command.
DB21044E Cannot COMMIT transaction number number.

Explanation: The transaction must be in a prepared state (i) when you issue the commit (c) subcommand.
User response: Issue another command.

DB21045E Cannot ROLLBACK transaction number number.

Explanation: The transaction must be in a prepared (i) or idle (e) state, when you issue the rollback (r) subcommand.
User response: Issue another command.

DB21046E Cannot FORGET transaction number number.

Explanation: The transaction must be in a heuristically committed (c) or heuristically rolled-back (r) state when you issue the forget (f) command.
User response: Issue another command.

DB21050E state is not a valid SQLSTATE.

Explanation: The sqlstate specified is not valid or could not be found. Valid states are numerical and two or five digits in length.
User response: Resubmit the command using a different state.

DB21051E The command is not supported for this environment.

Explanation: The command requested is currently not supported by the command line processor in the environment being used.
User response: Resubmit the command on a different platform or within a different environment.

DB21052I command has been submitted for execution.

Explanation: The command line processor is attempting to execute the indicated command. It will be unable to determine whether the command has completed successfully.
User response: If the command appears unsuccessful, submit it from outside the command line processor.

DB21053W Automatic escalation will occur when you connect to a database that does not support isolation-level.

Explanation: Isolation levels are database dependent. Some, like NC, are only supported by specific databases. If you select an isolation level that is not supported by the database you are connecting to, it will automatically escalate to a supported level.
User response: Connect to a database that supports the isolation level you have selected, or select a different isolation level.

DB21054E The command line processor encountered a system error with the command command. Reason code = reason-code.

Explanation: While processing the portion of the command indicated by the reason code, the command line processor was unable to get enough memory.

Reason code Description Syntax
--- -------------- ------------------
1 Data file LOAD FROM file/pipe/dev...
2 Lob data LOBS FROM lob-path...
3 Directory USING directory...
4 Source FROM dir/dev...
5 Target TO dir/dev...
6 Tablespace TABLESPACE tblspace-name...
7 Tbspace-def MANAGED BY...
8 Container data USING (PATH..., PATH...) or USING (
   {FILE|DEVICE}..., {FILE|DEVICE}...)
9 Log path log-directory ..., log-directory ... 
10 Node list node-number ..., node-number ...
11 Partitioned [PARTITIONED DB CONFIG] 
   load option partitioned-db-option 
   [{partitioned-db-option}...]
12 Storage path ON drive/path, drive/path...
13 Ingest field ($field-name field-type, ...) definition
18 SQL statement INSERT ..., UPDATE ..., on the INGEST MERGE..., or DELETE ... command
19 Column name any column name in the statement in the SQL statement on the INGEST command
20 Field name any field name in the statement in the SQL statement on the INGEST command

User response: You might be able to avoid the error by one of the following:
- Specify a larger value for one of the database manager configuration parameters that control heap or memory size.
- Modify the portion of the command indicated by the reason code to contain fewer elements. For example,
if the reason code is 17, remove some field definitions from the INGEST command.

**DB21055W** Command not valid for type 2 connections.

**Explanation:** The information returned by the GET CONNECTION STATE command does not apply to type 2 connections.

**User response:** Issue QUERY CLIENT to verify CONNECT = 1.

**DB21056W** Directory changes may not be effective until the directory cache is refreshed.

**Explanation:** If directory caching (DBM CFG dir_cache) is enabled, database, node, and DCS directory files are cached in memory. Directory changes may not become effective until the directory cache is refreshed. Refer to the dir_cache configuration parameter in the ADMIN guide for a description on directory caching.

**User response:** To refresh CLP's directory cache, issue a db2 TERMINATE. To refresh the directory information for another application, stop and restart that application. To refresh the directory information for the database, stop (db2stop) and restart (db2start) the database.

**DB21057E** Invalid tape device specified.

**Explanation:** The tape device passed to the operating system was not accepted. On Windows NT it must be of the form "\\\TAPE\x" where x represents the drive number (0 is the first).

**User response:** Reissue the command specifying a valid tape device.

**DB21058E** Invalid tape position specified.

**Explanation:** The tape mark position specified is not valid. On Windows NT the first tape position to which a backup is record is 1. Subsequent backup images begin at tape mark 2 and so on.

**User response:** Reissue the command specifying a valid tape position.

**DB21059E** Invalid tape blocksize specified.

**Explanation:** The tape mark blocksize specified is not in the range supported by the tape device. In addition, for backup/restore to work it must also be a factor of or multiple of 4096.

**User response:** Reissue the command specifying a valid tape size.

**DB21060E** General tape failure.

**Explanation:** An unexpected return code was returned from the tape operation.

**User response:** Resubmit the command. If the error occurs again, get help from your system administrator.

**DB21061E** Command line environment not initialized.

**Explanation:** You have tried to invoke the command line processor from a command window that was not started by db2cmd.exe.

**User response:** Issue DB2CMD to start a command window that has the command line processor environment initialized.

**DB21070W** One or more of the configuration parameters were set to AUTOMATIC in a case where the parameter does not support AUTOMATIC.

**User response:** If the parameter changes were submitted as a group, resubmit the changes individually to see which parameter changes were successful.

If only one parameter was submitted then this message indicates that the value AUTOMATIC is not supported for this parameter.

To find out which configuration parameters support the AUTOMATIC value, refer to the Administration Guide.

**DB21071W** Configuration parameter values were changed on all nodes, however not all nodes were able to change the values dynamically.

**User response:** If parameter changes were submitted in a group, issue the update command individually for more detailed information.

At the next restart of the unsuccessful nodes, the new values will take effect.

Changes to database manager configuration parameters can only take effect dynamically if you are attached to the instance. Not all configuration parameters support dynamic update. To see which parameters can be changed dynamically, refer to the Administration Guide.

To identify the nodes that failed in their dynamic application, attach to the instance on each node and issue the following command:

```
DB2 GET DBM CFG SHOW DETAIL
```
DB21080E  No previous RESTORE DATABASE command with REDIRECT option was issued for this database alias, or the information about that command is lost.

**Explanation:** You have tried to run the RESTORE DATABASE command with the CONTINUE or ABORT option. However, either you didn’t previously issue a RESTORE DATABASE command with the REDIRECT option, or you did issue such a command but for a different database alias than the one specified on the failing command. Another possible cause for this message could be that the information about a correctly issued previous RESTORE DATABASE ... REDIRECT command was lost. This can happen if the CLP back-end process terminates abnormally, or if you issue the TERMINATE command.

**User response:** Restart the whole redirected restore process by issuing the RESTORE DATABASE ... REDIRECT command and SET TABLESPACE CONTAINERS commands again. Then issue the RESTORE DATABASE ... CONTINUE command.

DB21081E  No sections were found in the db2cli.ini file.

**Explanation:** You have tried to list CLI parameters in the db2cli.ini file by using the GET CLI CONFIGURATION command, but the file is empty. There are no sections in that file.

**User response:** To update the db2cli.ini file, use the UPDATE CLI CONFIGURATION command.

DB21082E  You don't have enough authority to run the UPDATE CLI CONFIGURATION command.

**Explanation:** You need to have SYSADM authority to run this command.

**User response:** Obtain the necessary authority from your database administrator, then issue the command again.

DB21083E  Section section not found.

**Explanation:** Section <section> was not found in the db2cli.ini file.

**User response:** Specify an existing section and issue the command again.

DB21084E  NEW and CONFIRM passwords not the same.

**Explanation:** You were using the ATTACH or CONNECT command and specified that you wanted to change your password. The new password needs to be specified twice, by using the NEW and CONFIRM clauses, or by responding to the prompts. The two passwords you specified as your new password were different.

**User response:** Specify the same password twice.

DB21085I  This instance or install (instance name, where applicable: instance-name) uses 32-or-64 bits and DB2 code release release with level identifier level.

**Explanation:** This message is the output of the db2level command and provides detailed information about the code level of a given DB2 product. The information might be requested by DB2 service personnel to aid in resolving problems.

When the db2level command is run with a DB2 product that does not have a database manager instance, such as the IBM Data Server Driver Package or the IBM Data Server Driver for ODBC and CLI, the value of the first run-time token, instance-name, will be “**"."**

**User response:** Record all displayed information to provide to DB2 service personnel.

The db2level executable should not be copied from one machine to another. Only DB2 installation and service maintenance programs should manipulate this file.

The db2level executable may not display all information about private test fixes that the customer has received from DB2 service personnel and installed on top of an officially supported service level.

DB21086I  The incremental RESTORE operation of this backup image completed successfully, but there are additional backup images that must be restored to complete the entire incremental RESTORE operation.

**Explanation:** To complete an incremental RESTORE operation, every incremental backup image in its restore chain must be restored. The current operation succeeded, but there are additional backup images that must be restored before the overall RESTORE operation is complete.

**User response:** Restore the next backup image.

DB21089I  DB2 Administration Server server-name uses DB2 code release ver-rel-mod with level identifier level-id. Informational tokens are build-id1, build-id2, and Fix Pack FixPak-number. Product is installed at install-path.

**Explanation:** This message is the output of the db2daslevel command and provides detailed information about the code level of a given DB2 Administration Server. The information may be
requested by DB2 service personnel to aid in resolving
problems.

**User response:** Record all displayed information to
provide to DB2 service personnel.

The db2daslevel executable should not be copied from
one machine to another. Only DB2 installation and
service maintenance programs should manipulate this
file.

The db2daslevel executable may not display all
information about private test fixes that the customer
has received from DB2 service personnel and installed
on top of an officially supported service level.

**DB2100E**  Stored procedure *procedure-name* exists in
multiple schemas.

**Explanation:** The specified procedure name was found
in more than one schema.

**User response:** Re-issue the CALL command with a
fully qualified procedure name (*schema.procedure-name*).

**DB2101E**  Too few parameters were specified for
stored procedure *procedure-name*
(expected quantity).

**Explanation:** The definition of this stored procedure
contains more parameters than those specified in the
CALL command.

**User response:** Verify the number of parameters in the
stored procedure and re-issue the command.

**DB2102E**  Too many parameters were specified for
stored procedure *procedure-name*
(expected quantity).

**Explanation:** The definition of this stored procedure
contains fewer parameters than those specified in the
CALL command.

**User response:** Verify the number of parameters in the
stored procedure.

**DB2103E**  The data type of parameter
*parameter-number* is not supported by the
CALL command in CLP.

**Explanation:** Currently in CLP, one cannot call stored
procedures with a parameter whose data type is that of
parameter *parameter-number*.

**User response:** Do not call this stored procedure from
CLP.

**DB2104E**  Parameter *parameter-number* for stored
procedure *procedure-name* should be an
INPUT parameter.

**Explanation:** The parameter *parameter-number* is
defined as an INPUT or INPUT/OUTPUT parameter.

However a "?" was specified for this parameter.

**User response:** Replace the "?" in parameter
*parameter-number* by the input value of this parameter
and re-issue the CALL command.

**DB2105E**  Parameter *parameter-number* for stored
procedure *procedure-name* should be an
OUTPUT parameter.

**Explanation:** The parameter *parameter-number* is
defined as an OUTPUT parameter. However a input
value was specified for this parameter.

**User response:** Replace the input value in parameter
*parameter-number* by a "?" and re-issue the CALL
command.

**DB2106E**  Stored procedure *procedure-name* is
undefined.

**Explanation:** The stored procedure has not been
defined or it has not been cataloged in the system
catalogs.

**User response:** Verify that the stored procedure exists
in the system catalogs. Try dropping and re-creating the
stored procedure. Then re-issue the CALL command.

**DB2107E**  An error has occurred when accessing
the file *file-name*. Reason code: *reason-code*.

**Explanation:** For CLP commands REGISTER
XMLSCHEMA, REGISTER XSROBJECT, ADD
XMLSCHEMA DOCUMENT, COMPLETE
XMLSCHEMA, or DECOMPOSE XML DOCUMENT,
some possible reason codes include:

1  The file size is zero.

2  The file cannot be found.

3  Access to the file was denied. The user does
not have permission to open the file.

4  Unexpected end of file encountered while
reading from the file.

5  Access to the file was denied. The file is in
use.

6  A media error was encountered while
accessing the file.
The size of the document exceeds the maximum size supported by the command.

**User response:** Fix any errors and rerun the application.

The request cannot be executed because the DB2 server version does not support this functionality.

**Explanation:** Some new functionality is not supported against older DB2 server versions.

**User response:** Execute the request against a DB2 server where the latest DB2 server version has been installed, or upgrade the server to the latest DB2 server version.

The syntax is incorrect for the directive. **Reason Code:** reason-code.

**Explanation:** The new terminator cannot be set, because of a problem with the --#SET TERMINATOR syntax fragment in the directive. The terminator has not been changed. One of the following reason codes may apply:

- **Reason codes:**
  1. An invalid terminator was specified. A valid terminator contains one or two characters, but cannot contain a space or a tab.
  2. The directive does not include a new terminator.
  3. There must be a space after the words --#SET TERMINATOR.

**User response:** Revise the syntax of your directive, and then reissue the directive.
Chapter 61. DB21500 - DB21999

DB21500I The DB2MSCS command completed successfully.

Explanation: The user request was successfully processed.
User response: No action required.

DB21501E The db2mscs command failed because the following invalid option was specified: option-name

Explanation: You can create the infrastructure for DB2 failover support with Microsoft Cluster Server (MSCS) using the db2mscs utility.
Valid arguments for the db2mscs command are:
- -f InputFileName Specifies the DB2MSCS.CFG input file to be used by the MSCS utility. If this parameter is not specified, the DB2MSCS utility reads the DB2MSCS.CFG file that is in the current directory.
- -d TraceFileName Turns on debug tracing and specifies the name of the trace output file.
- -u InstanceName Undo the DB2MSCS operation for the instance.
- -l Username Specifies the user name of the domain account for the DB2 service (specified as domain\user).
- -p Password Specifies the password of the domain account for the DB2 service.
User response: Enter the command again with valid parameters.

DB21502E Cannot open the configuration file file-name.

Explanation: A configuration file could not be opened. Depending on the filename in the message text, this error can be explained as follow:
- If the filename in the message text was the name of the input file specified for the DB2MSCS command, then input file can not be found.
- If the filename was "db2systm", then the database manager configuration file for target instance is missing.
- If the filename was "db2mscs.bak", then the backup configuration file could not be created in the instance directory.
- If the filename was "db2mscs.bak" and an undo operation was performed, then the backup configuration file from the instance directory could not be opened when performing the undo operation.
User response: Depending on the file that was in error, the problem may be corrected as follow:
- If the filename in the message text was the name of the input file specified for the DB2MSCS command, then ensure that the file exists in the current directory, or that a fully qualified filename is specified for the command.
- If the database manager configuration file for target instance is missing, then drop and recreate the instance.
- If the backup configuration file could not be created in the instance directory, then ensure that the instance profile directory exists and that the current logon account has write access to the directory.
- If the backup configuration file from the instance directory could not be opened when performing the undo operation, then ensure that the MSCS disk that contains the instance profile directory is online on the current machine and retry the operation.

DB21503E Not enough memory is available to process this command.

Explanation: There was not enough memory to continue processing the command.
User response: Ensure that the system has sufficient real and virtual memory. Close all applications that are not in use to free up additional memory for the system.

DB21504E The value parameter-value specified for parameter parameter-name exceeded the maximum length for that parameter. The maximum length of the parameter is length bytes.

Explanation: The value parameter-value specified for the keyword parameter-name exceeded the maximum allowable limit for that parameter.
User response: Specify a value that satisfies length restrictions.

DB21505E Parameter parameter-name1 must be specified before parameter parameter-name2 in the DB2MSCS configuration file file-name.

Explanation: The sequence of parameters specified in the DB2MSCS configuration file is not valid. The group name must be specified before any other resource parameter can be specified. For each resource, the resource name parameter must be specified before any resource parameter can be specified.
User response: Modify the DB2MSCS configuration file so that the sequence of parameters is correct.
DB21506E  The cluster cluster-name cannot be accessed. Ensure that the cluster name is correct and the cluster service on the current machine has been started.

Explanation: The DB2MSCS utility could not open the cluster because either the cluster name was incorrect or the cluster service on the current machine has not been started.

User response: If the cluster service has not been started on the current machine, then start the cluster service by running the command "net start clussvc" or by starting the "Cluster" service from the Services dialog. If the cluster name was specified incorrectly in the DB2MSCS configuration file, then modify the cluster name and resubmit the command.

DB21507E  The instance name instance-name is not valid.

Explanation: The instance name specified in the DB2MSCS configuration file is not valid, or the DB2INSTANCE environment variable was not set to a valid instance name.

User response: If the instance name was specified in the DB2MSCS configuration file, then verify that the instance name is valid and resubmit the command. If the instance name was not specified in the configuration file, then ensure the DB2INSTANCE environment variable is set to the name of a valid DB2 instance.

DB21509E  The keyword keyword specified in configuration file file-name is only valid for the partitioned database instance.

Explanation: The keyword specified is only valid if the target instance is a partitioned database instance. For example, the DB2_NODE keyword should only be specified for the partitioned database instance.

User response: Comment out the invalid keyword in the configuration file and resubmit the command.

DB21510E  Internet address internet-address specified in configuration file file-name is not valid.

Explanation: The value specified for either the IP address or the subnet mask does not conform with the internet address format. A valid internet address format has the form: "nnn.nnn.nnn.nnn", where nnn is a number from 0 to 255.

User response: Correct the invalid address in the configuration file and resubmit the command.
functioning properly. The Event Viewer should be used to examine if any disk device driver problem was recorded in the Event logs.

- If an IP Address resource was in error, then ensure that the IP parameters are correct and that the network(s) where the IP address resides on is functioning properly. Also, the IP address that is specified for DB2 must NOT be used by any other machine in the network. If you are not sure what parameters to use for the IP address, consult with your network administrator.

- If a Network Name resource was in error, then ensure that the network is functioning properly, and that the value specified for the Netname parameter has not been used by any machine in the network. Note that the Network Name parameter is not required. As a work around, you may want to comment out the Network Name parameter and proceed.

- If a DB2 resource was in error, then the db2diag.log should be examined for any DB2 errors.

User response: Set the DB2PATH to the directory where DB2 is installed using the db2set command. For example, db2set -g DB2PATH=D:\SQLLIB.

DB21521E DB2MSCS cannot read from file file-name.

Explanation: The DB2MSCS utility can not read data from the indicated file.

User response: Ensure that the file is not locked and that the current logon user have sufficient authority to read the file.

DB21522E Cannot open machine registry for machine machine-name. Ensure that the machine is active and that the current logon account has Local Administrator authority.

Explanation: The DB2MSCS could not open the registry for the remote machine for read and write access. By default, only users that belong to the Local Administrator groups on that machine have read and write access to the machine registry. This error is also returned if the remote machine is not active.

User response: Ensure that the target machine is active, then logon to a domain account that belongs to the Local Administrator group on the target machine and resubmit the command.

DB21523E Cannot close machine registry for machine machine-name. Ensure that the machine is active and that the current logon account has Local Administrator authority.

Explanation: After opening the remote registry, the DB2MSCS utility failed to close the handle to the remote registry because of an internal error.

User response: Run with the trace option and contact your IBM Service Representative for further assistance.

DB21524E Failed to create the resource resource-name. System error: error-msg

Explanation: The command failed to create the target resource because of a Windows system error.

User response: Refer to the Windows system error message for additional information.

DB21525E Failed to add dependency to the resource resource-name. System error: error-msg

Explanation: The command failed to add dependency for the target resource because of a Windows system error.

User response: Refer to the Windows system error message for additional information.
message for additional information.

DB21526E  Failed to move resource resource-name.
        System error: error-msg

Explanation: The command failed to add move resource because of a Windows system error.

User response: Refer to the Windows system error message for additional information.

DB21527E  No disk resource is specified for the group group-name.

Explanation: At least one disk resource must be specified for each group.

User response: Assign one or more disk resource to the group indicated in the error message.

DB21528E  The value keyword-value specified for the INSTPROF_DISK keyword does not match any disk in the same group.

Explanation: The INSTPROF_DISK keyword was used to specify the location where the content of instance profile directory will be copied to. The value for the INSTPROF_DISK keyword did not match one the name of a disk resource in the same group.

User response: Set the INSTPROF_DISK to the name of one of the disk resources in the same group.

DB21529E  The DB2MSCS utility cannot access the registry of machine machine-name. Ensure that the machine is active and that the current logon account has Local Administrator authority.

Explanation: The DB2MSCS utility cannot access the registry of the target machine.

User response: Logon to a domain account that belongs to the Local Administrator group on the target machine and resubmit the command.

DB21530E  The DB2MSCS utility cannot access the cluster registry for the cluster cluster-name. Ensure that the cluster is active and the current logon account has Local Administrator authority.

Explanation: To administer a cluster, users must have either administrative permissions on both nodes or specific permissions to administer the cluster. By default, the local Administrators group on both nodes has permissions to administer the cluster.

User response: Logon to an account that has sufficient access to the Cluster. To give a user permissions to administer a cluster without giving the user Administrative permissions on both nodes: Run the Cluster Administration GUI Right-click the cluster name, and then click Properties Click Security (or Permissions) Specify which users and groups that may administer the cluster.

DB21531E  Cannot obtain property for MSCS disk.
        System error: error-msg

Explanation: The DB2MSCS utility can not obtain the drive letter from the MSCS disk resource. This problem usually occurs when the disk resource specified by the INSTPROF_DISK keyword is an IBM Netfinity disk resource, 'IPSHA Disk'.

User response: Do not use the INSTPROF_DISK keyword. Instead, use the INSTPROF_PATH keyword to explicitly specify the target location where the instance profile directory will be copied to.

DB21532E  A internal error occurred. File: file-name, Line line-number. Please contact your IBM Service Representative.

Explanation: The DB2MSCS failed because of an internal error.

User response: Run with the trace option and contact your IBM Service Representative for further assistance.

DB21533E  An error occurred during the migration of the DB2 instance, rc = error-code.

Explanation: After all the required MSCS resources had been created, the DB2MSCS utility failed to migrate the DB2 instance to run in a clustered environment because of an internal error. During an instance migration, the utility performs the following steps:

• Copy the instance directory to the location specified by the INSTPROF_DISK or INSTPROF_PATH keyword.
• Move the DB2 registry profile variables from the machine registry to the cluster registry.
• Set the DB2INSTPROF registry variable to point to the new instance profile location.
• Set the DB2CLUSTERLIST to the name of the current machine.

User response: Before running the DB2MSCS utility, ensure that:

• On the current machine, the instance can be started and stopped successfully from the command line.
• On other cluster node(s), the same instance must be stopped and optionally dropped.
• All the disk resources are active on the current machine and can be moved back and forth successfully between the cluster nodes.
• The current logon user has sufficient access to the local machine registry and the cluster registry.
• If the problem persists, contact your IBM Service Representative and provide both the DB2MSCS traces and DB2 traces.

DB21534E  An error occurred during addition of MSCS node to the DB2 instance, rc = error-code.

Explanation: The utility failed to add the other MSCS node to the DB2 instance. During this operation, the utility will do the followings:
• Update the DB2 cluster machine list by adding the name of the target machine to the DB2CLUSTERLIST registry variable.
• Create the DB2 service and the registry instance profile for the current DB2 instance on the target node.

User response: Before running the DB2MSCS utility, ensure that:
• On the current machine, the instance can be started and stopped successfully from the command line.
• On other cluster node(s), the same instance must be stopped and optionally dropped.
• All the disk resources are active on the current machine and can be moved back and forth successfully between the cluster nodes.
• The current logon user has sufficient access to the target machine registry and the cluster registry.
• If the problem persists, contact your IBM Service Representative and provide both the DB2MSCS traces and DB2 traces.

DB21535E  The instance-owning database partition server is not on the current machine.

Explanation: When migrating a partitioned database instance, the DB2MSCS utility must be run on the instance owning machine.

User response: Run the DB2MSCS utility from the instance owning machine.

DB21536E  The username userid is not valid.

Explanation: The username specified is not valid.

User response: Specify a valid username.

DB21537E  The password password is not valid.

Explanation: The password specified is not valid.

User response: Specify the correct password.

DB21538E  The password for the account account-name has expired.

Explanation: The password for the target account has expired.

User response: Reset the password and resubmit the command.

DB21540E  Group group-name requires at least one network name resource.

Explanation: When migrating a partitioned database instance, a network name resource must be created for the group that contains the instance owning node.

User response: Specify to create a network name resource in the group indicated.

DB21541E  An error occurred when removing the MSCS node from the DB2 instance, rc = error-code.

Explanation: During an "undo" operation, the utility failed to remove an MSCS node from the DB2 instance because of an internal error.

User response: Manual clean up is required. To manually clean up the instance do the following:
• Stop and drop the DB2 instance.
• Remove all DB2 resources and their dependent resources from the Cluster Administrator window.

DB21542E  An error occurred while attempting to remove failover support for the instance. Failover support is still active for this instance, rc = error-code.

Explanation: During an "undo" operation, the utility failed to uncluster the DB2 instance because of an internal error.

User response: Manual clean up is required. To manually clean up the instance do the following: Stop and drop the instance. Remove all DB2 resources and their dependent resources from the Cluster Administrator window.

DB21543E  The resource name resource-name does not match any IP resource in the same group.

Explanation: A network name resource must be configured to depend on an IP Address resource in the same resource group.

User response: Specify the name of an IP Address resource that resides in the same group as a dependency for the Network Name resource.

DB21544E  The MSCS resource resource-name already exists.

Explanation: The resource name specified already exists in the cluster.

User response: Specify a different resource name.
<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DB21545E</td>
<td>The module file-name was loaded, but the function function-name is not found. Ensure that you are running on the version of DB2 that supports MSCS.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>The utility failed to obtain the address of a required function because the version of DB2 is not compatible with the version of the DB2MSCS utility.</td>
</tr>
<tr>
<td>User response:</td>
<td>Use the version of the DB2MSCS utility that is shipped with the DB2 product.</td>
</tr>
<tr>
<td>DB21546E</td>
<td>The module file-name could not be loaded.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>The utility failed to load the required DLL.</td>
</tr>
<tr>
<td>User response:</td>
<td>Reinstall the DB2 product.</td>
</tr>
<tr>
<td>DB21547E</td>
<td>Error occurred while moving group group-name to node node-number. System error: error-msg</td>
</tr>
<tr>
<td>Explanation:</td>
<td>The utility failed to move the group to the target node because one or more resources can not be moved.</td>
</tr>
<tr>
<td>User response:</td>
<td>Ensure that all cluster nodes are active and that all disk resources can be moved back and forth between cluster nodes. If the problem persists, contact your IBM Service Representative.</td>
</tr>
<tr>
<td>DB21548E</td>
<td>A logon account for the DB2 service must be specified for a partitioned database system. Specify a valid logon account using the DB2_LOGON_USERNAME and DB2_LOGON_PASSWORD keywords.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>The DB2 service for a partitioned database system must be configured to be run under a valid domain account.</td>
</tr>
<tr>
<td>User response:</td>
<td>Specify a valid domain account using the DB2_LOGON_USERNAME and DB2_LOGON_PASSWORD keywords.</td>
</tr>
<tr>
<td>DB21549N</td>
<td>Network name network-name specified for node node-number is not valid.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>The network name value specified could not be resolved.</td>
</tr>
<tr>
<td>User response:</td>
<td>Ensure that the network name is registered in the DNS server or in a local etc/hosts file.</td>
</tr>
<tr>
<td>DB21600N</td>
<td>The command command did not complete successfully.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>Errors were encountered during the execution of this command.</td>
</tr>
</tbody>
</table>

User response: Contact your technical service representative. Information in the db2diag.log file will enable your service representative to determine the cause of the failure.
Chapter 62. DB22000 - DB22499

DB22000E Error: The syntax of the DB2LSWTCH command is incorrect.

Explanation: The local switcher promotes or demotes the DB2 copy it is installed under:
- `db2lswtch.exe -db2 -promote`
- `db2lswtch.exe -client -promote`
- `db2lswtch.exe -all -promote`
- `db2lswtch.exe -db2 -demote`
- `db2lswtch.exe -client -demote`
- `db2lswtch.exe -all -demote`

The command options are:
- `-db2 -promote` to promote the current copy to the default DB2 copy.
- `-client -promote` to promote the current copy to the default IBM database client interface copy.
- `-all -promote` to promote the current copy to the default DB2 and IBM database client interface copy.
- `-db2 -demote` to demote the current default DB2 copy.
- `-client -demote` to demote the current default IBM database client interface copy.
- `-all -demote` to demote the current default DB2 and IBM database client interface copy.

User response: Enter the command again using valid parameters.

DB22001E An error occurred during the initialization of the local switcher environment. No change was done to any copy on the system.

Explanation: An error occurred when the local switcher tried to look up information in the Windows system registry.

User response: Contact your IBM service representative.

DB22002E An error occurred during the promotion of the copy name. The promotion will continue and this copy will be assigned as the default on the system.

Explanation: An error occurred during one of the tasks that the local switcher performs to promote the copy it is installed under to no longer be the default on the system. The promotion will be aborted and the local switcher will be called to promote the same copy so that any tasks that have been completed are rolled back.

User response: Try to manually correct the problem that resulted in this error and attempt to run the same operation again. If the problem persists, contact your IBM service representative.

DB22003E An error occurred during the demotion of the DB2 copy name. The demotion will be aborted and this copy will remain as the default on the system.

Explanation: An error occurred during one of the tasks that the local switcher performs to demote the copy it is installed under to no longer be the default on the system. The demotion will be aborted and the local switcher will be called to promote the same copy so that any tasks that have been completed are rolled back.

User response: Try to manually correct the problem that resulted in this error and attempt to run the same operation again. If the problem persists, contact your IBM service representative.

DB22004I The copy name has been successfully demoted and is no longer the default DB2 copy on the system.

Explanation: No errors were encountered during the execution of this operation.

User response: No action required.

DB22005I The copy name has been successfully promoted to be the default DB2 copy on the system.

Explanation: No errors were encountered during the execution of this operation.

User response: No action required.

DB22006E An error occurred during the process of updating the global system environment variables to include the environment variables for the copy name.

Explanation: During promotion of the DB2 copy it is installed under, the local switcher modifies the global system environment variables such as PATH, INCLUDE, LIB and CLASSPATH to add values pointing to the path of its copy to them. This operation has encountered a problem.

User response: Inspect the global system environment and ensure that any environment variables that need to be modified correctly include values pointing to the path of the copy that has been promoted.
An error occurred during the process of updating the global system environment variables to remove the environment variables for the copy name.

Explanation: During demotion of the DB2 copy it is installed under, the local switcher removes values pointing to the path of the copy from global system environment variables such as PATH, INCLUDE, LIB and CLASSPATH. This operation has encountered a problem.

User response: Inspect the global system environment and ensure that any environment variables that need to be modified no longer include values pointing to the path of the copy that has been demoted.

An error occurred when registering the IBM ODBC driver for the copy name as the default driver on the system.

Explanation: During promotion of its copy, the local switcher registers the default IBM DB2 ODBC driver and ensures that this driver points to the path of the default IBM database client interface copy. This operation has encountered a problem.

User response: Contact your IBM service representative.

An error occurred when unregistering the IBM ODBC driver for the copy name as the default driver on the system.

Explanation: During demotion of the copy it is installed under, the local switcher unregisters the default IBM ODBC driver and ensures that this driver no longer points to the path of the demoted copy. This operation has encountered a problem.

User response: Contact your IBM service representative.

An error occurred when registering the IBM .NET data provider for the copy name in the global assembly cache.

Explanation: During the promotion of the copy it is installed under, the local switcher copies the IBM .NET provider for this copy to the Global Assembly Cache of the Windows operating system. This is done using special Windows APIs. This operation has encountered a problem.

User response: Contact your IBM service representative.

An error occurred during the update of the ODBC system DSN name.

Explanation: During the demotion of the copy it is installed under, the local switcher modifies any system Data Source Names to ensure they still function. This operation has encountered a problem.

User response: Contact your IBM service representative.

An error occurred during the operating system call func_name. The operating system message is msg and the return code is return_code.

Explanation: A call to an operating system function has failed. The operating system error message and return code contain further information on the reason for the failure.

User response: Contact your IBM service representative.
DB22016E  An error occurred when registering the IBM Add-in of the copy <i>name</i> with VisualStudio 2003.

Explanation: During the promotion of its copy, the local switcher registers the IBM Visual Studio 2003 Add-in with the installed copy of Visual Studio. This operation has encountered a problem.

User response: Contact your IBM service representative.

DB22017E  An error occurred when unregistering the IBM Add-in of the copy <i>name</i> with VisualStudio 2003.

Explanation: During the demotion DB2 copy it is installed under, the local switcher unregisters the IBM Visual Studio 2003 Add-in with the installed copy of Visual Studio. This operation has encountered a problem.

User response: Contact your IBM service representative.

DB22018E  An error occurred while trying to start the DB2 Management Service of the copy <i>name</i>.

Explanation: During the promotion of the DB2 copy it is installed under, the local switcher starts the DB2 Management Service belonging to this copy. This operation has encountered a problem.

User response: Contact your IBM service representative.

DB22019E  An error occurred while trying to stop the DB2 Management Service of the copy <i>name</i>.

Explanation: During the demotion of the DB2 copy it is installed under, the local switcher stops the DB2 Management Service belonging to this copy. This operation has encountered a problem.

User response: Contact your IBM service representative.

DB22020E  The copy <i>name</i> is not the default DB2 copy and therefore cannot be demoted.

Explanation: The local switcher has been run with a -db2 -demote switch from an alternate copy. The local switcher can only demote the default DB2 copy on the system.

User response: If you need to demote the default DB2 copy, run the local switcher from the installation path of the default DB2 copy.

DB22021E  Another copy <i>name</i> is defined as the default DB2 copy on the system. Promotion of another copy cannot proceed unless the current default copy is demoted.

Explanation: The local switcher has been called to promote an alternate copy of DB2 while another copy is already assigned as the default DB2 copy on the system.

User response: Demote the current default DB2 copy before promoting an alternate copy.

DB22022E  An error occurred while setting the "default" value under the HKLM\Software\IBM\InstalledCopied registry key to the name of the copy <i>name</i>.

Explanation: The "default" value under the HKLM\Software\IBM\InstalledCopied key contains the name of the current default copy. The local switcher has encountered a problem setting this value to the name of the copy that has been promoted.

User response: Attempt the operation again. If the problem persists, contact your IBM service representative.

DB22023E  An error occurred while updating the "default" value under the HKLM\Software\IBM\InstalledCopied registry key to remove the name of the copy <i>name</i>.

Explanation: The "default" value under the HKLM\Software\IBM\InstalledCopied key contains the name of the current default copy. The local switcher has encountered a problem removing the name of the copy that has been demoted.

User response: Attempt the operation again. If the problem persists, contact your IBM service representative.

DB22024E  An error occurred while registering the COM server <i>name</i>.

Explanation: During the promotion of the DB2 copy it is installed under, the local switcher registers the COM servers that are part of this copy with the operating system. This operation has encountered a problem.

User response: Contact your IBM service representative.

DB22025E  An error occurred while unregistering the COM server <i>name</i>.

Explanation: During the demotion of the DB2 copy it is installed under, the local switcher unregisters the COM servers that are part of this copy with the
operating system. This operation has encountered a problem.

**User response:** Contact your IBM service representative.

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**DB22026E**  Error: The syntax of the db2swtch command is incorrect.

**Explanation:** The db2swtch utility can display the DB2 copies or IBM data server driver copies installed on the system, and set the default DB2 copy or default IBM database client interface copy. This utility can also be used to redirect the references in machine.config between common IDS .NET data provider and SQLI IDS .NET data provider:

```
db2swtch [-db2|-client]
  [-d {name of DB2 copy or IBM data server driver copy}]
  [-l]
  [-IDS common|SQLI]
  [-h|-?]
```

The command options are:

- **(no arguments)**
  - launches the utility in graphical mode
- **-d {name of DB2 copy}**
  - sets the default DB2 and default IBM database client interface copy to the name specified
- **-db2 -d {name of DB2 copy}**
  - sets the default DB2 copy to the name specified
- **-client -d {name of DB2 copy or IBM data server driver copy}**
  - sets the default database client interface copy to the name specified
- **-l**
  - displays the list of DB2 copies and IBM data server driver copies on the system
- **-IDS common**
  - redirects the IDS .NET data provider reference in machine.config to common IDS .NET data provider
- **-IDS SQLI**
  - redirects the IDS .NET data provider reference in machine.config to SQLI IDS .NET data provider
- **-h|-?**
  - displays help

**User response:** Enter the command again using valid parameters.

---

**DB22027E**  An error occurred when registering the performance counters for the copy name.

**Explanation:** During the promotion of the DB2 copy it is installed under, the local switcher registers the DB2 performance counters for this copy. This operation has encountered a problem. This is not usually a severe problem unless you intend to use the DB2 performance counters.

**User response:** Contact your IBM service representative.

---

**DB22028E**  An error occurred when unregistering the performance counters for the copy name.

**Explanation:** During the demotion of the DB2 copy it is installed under, the local switcher unregisters the DB2 performance counters for this copy. This operation has encountered a problem. This is not usually a severe problem unless you intend to use the DB2 performance counters.

**User response:** Contact your IBM service representative.

---

**DB22029E**  An error occurred when registering the DB2 system tray for the default instance of the copy name.

**Explanation:** During the promotion of the DB2 copy it is installed under, the local switcher registers the DB2 system tray for the default instance of this copy. This operation has encountered a problem. This is not usually a severe problem.

**User response:** Contact your IBM service representative.

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**DB22030E**  An error occurred when unregistering the DB2 system tray for the copy name.

**Explanation:** During the demotion of the DB2 copy it is installed under, the local switcher unregisters the DB2 system tray for this copy. This operation has encountered a problem. This is not usually a severe problem.

**User response:** Contact your IBM service representative.

---

**DB22031E**  An error occurred when modifying the display name of the shortcut group for the copy name.

**Explanation:** During the promotion or demotion of the DB2 copy it is installed under, the local switcher modifies the display name of the shortcut group for this copy to indicate if it is the default DB2 copy or not. This operation has encountered a problem. This is not usually a severe problem.
User response:  Contact your IBM service representative.

DB22032I  The copy *name* has been successfully demoted and is no longer the default IBM database client interface copy on the system.

Explanation:  No errors were encountered during the execution of this operation.

User response:  No action required.

DB22033I  The copy *name* has been successfully demoted and is no longer the default DB2 and IBM database client interface copy on the system.

Explanation:  No errors were encountered during the execution of this operation.

User response:  No action required.

DB22034I  The copy *name* has been successfully promoted to be the default IBM database client interface copy on the system.

Explanation:  No errors were encountered during the execution of this operation.

User response:  No action required.

DB22035I  The copy *name* has been successfully promoted to be the default DB2 and IBM database client interface copy on the system.

Explanation:  No errors were encountered during the execution of this operation.

User response:  No action required.

DB22036E  The copy *name* is not the default IBM database client interface copy and therefore cannot be demoted.

Explanation:  The local switcher has been run with a -client -demote switch from an alternate copy. The local switcher can only demote the default IBM database client interface copy on the system.

User response:  If you need to demote the default database client interface copy, run the local switcher from the installation path of the default client interface copy.

DB22037E  The copy *name* is not default DB2 and IBM database client interface copy and therefore cannot be demoted.

Explanation:  The local switcher has been run with a -all -demote switch from an alternate copy. The local switcher can only demote the copy which is both the default DB2 copy and the default IBM database client interface copy on the system.

User response:  If you need to demote the default DB2 and IBM database client interface copy, run the local switcher from the installation path of the copy which is both the default DB2 copy and the default IBM database client interface copy.

DB22038E  Another copy *name* is defined as default IBM database client interface copy on the system. Promotion of another copy cannot proceed unless the current default database client interface copy is demoted.

Explanation:  The local switcher has been called to promote an alternate copy of database client interface while another copy is already assigned as the default IBM database client interface copy on the system.

User response:  Demote the current default IBM database client interface copy before promoting an alternate copy.

DB22039E  An error occurred while setting the "defaultClientInterfaceCopy" value under the HKLM\Software\IBM\InstalledCopied registry key to the name of the copy *name*.

Explanation:  The "defaultClientInterfaceCopy" value under the HKLM\Software\IBM\InstalledCopied key contains the name of the current default copy. The local switcher has encountered a problem setting this value to the name of the copy that has been promoted.

User response:  Attempt the operation again. If the problem persists, contact your IBM service representative.

DB22040E  An error occurred while updating the "defaultClientInterfaceCopy" value under the HKLM\Software\IBM\InstalledCopied registry key to remove the name of the copy *name*.

Explanation:  The "defaultClientInterfaceCopy" value under the HKLM\Software\IBM\InstalledCopied key contains the name of the current default database client interface copy. The local switcher has encountered a problem removing the name of the copy that has been demoted.

User response:  Attempt the operation again. If the problem persists, contact your IBM service representative.
The DB2 copy name does not exist.

Explanation: The specified DB2 copy does not exist.

User response: Specify an existing DB2 copy and reissue the command.

An error occurred when setting up the DB2 instance configuration for the IBM Tivoli Monitoring for Databases: DB2 Agent in the copy name.

Explanation: During the promotion of the DB2 copy the local switcher attempted to set up the DB2 instance configuration for the Monitoring Agent for DB2 in this copy.

User response: Contact your IBM service representative.

An error occurred when removing the DB2 instance configuration for the IBM Tivoli Monitoring for Databases: DB2 Agent in the copy name.

Explanation: During the demotion of the DB2 copy the local switcher attempted to remove the DB2 instance configuration for the Monitoring Agent for DB2 in this copy.

User response: Contact your IBM service representative.

An error occurred when creating the configuration file for the IBM Tivoli Monitoring for Databases: DB2 Agent in the default copy installation directory.

Explanation: An internal error occurred when creating the configuration file for the Monitoring Agent for DB2 in the default copy installation directory.

User response: Ensure that you have write access to the default copy installation directory.

An error occurred when removing the configuration file for the IBM Tivoli Monitoring for Databases: DB2 Agent in the default copy installation directory.

Explanation: An internal error occurred when removing the configuration file for the Monitoring Agent for DB2 in the default copy installation directory.

User response: Ensure that you have write access to the default copy installation directory.
Chapter 63. DB29000 - DB29499

DB29320W  Output has been truncated.

Explanation:  The full query result cannot be fetched as supplied.

User response:  The CLP query can be rewritten to fetch a shorter string. Use of another interface to DB2 can also help in overcoming the CLP's limitation.
Chapter 64. DB29500 - DB29999

DB29501E  DB2 has detected an inconsistent environment. Please investigate the following:

Explanation:  An error in the operating environment has been detected.

User response:  This error may arise due to an inconsistent DB2 or operating system environment. Attempt to correct the problem identified in the error message and re-issue the command.

DB29502E  An incompatible Java Runtime Environment has been detected. Please verify that the required level of the Java Runtime Environment has been installed. The Java application may be launched using the Java runtime installed with DB2.

Explanation:  The installed Java runtime is not supported by the DB2 Java application.

User response:  The installed DB2 Java runtime will be used to launch the DB2 Java application. Other Java applications using the installed Java runtime should be terminated prior to executing the DB2 Java application to ensure correct behaviour.

DB29503E  Connections to multiple databases is not supported.

Explanation:  You cannot connect to more than one database.

User response:  Connect to only one database.

DB29504E  Connections to multiple users is not supported.

Explanation:  You cannot connect to more than one user.

User response:  Connect to only one user.

DB29523W  Are you sure you want to CANCEL the query?

DB29524E  LogSQL_Error() Failed

DB29525E  LogSQL_Error() param-1 param-2

DB29526E  You cannot drop this table; it does not exist. Please select a job that has results, and try again, or select a recurring job that is scheduled and try again.

Explanation:  A request was made to drop a result table for a job which did not have an associated result table.

User response:  Select a job that has a results or select a recurring job that is scheduled and try again.

DB29527W  Are you sure you want to cancel job #param-1?

DB29528W  Are you sure you do NOT want to display job #param-1?

WARNING: If you select this option this job will never be displayed again.

DB29530W  This option will remove confirmation messages from actions like 'cancel' and 'hide'. Is this something you really want to do?

DB29537E  Unknown Type: param-1

DB29542E  Connection SQL error: param-1

Error Number:  param-2

Error Message:  param-3

DB29543E  Resource DLL rqsres.dll not found.

Explanation:  Resource DLL rqsres.dll could not be loaded successfully.

User response:  During initialization of DB2 Query Patroller Recurring Query Scheduler the resource DLL rqsres.dll could not be loaded as it was either damaged or deleted. Please reinstall DB2 Query Patroller QueryEnabler.

DB29544E  Resource DLL qeres.dll not found.

Explanation:  Resource DLL qeres.dll could not be loaded successfully.

User response:  During initialization of DB2 Query Patroller QueryEnabler the resource DLL qeres.dll could not be loaded as it was either damaged or deleted. Please reinstall DB2 Query Patroller QueryEnabler.

DB29545E  Name invalid: Query Name can only be 20 characters or less in length. Please change the name accordingly and retry.

Explanation:  A name for a query was specified which
DB29546E

was longer than 20 characters.

User response: Specify a query name that has at most 20 characters.

DB29546E Name invalid: Query Name can only contain alphanumeric characters and spaces... ("a..z", "A..Z", "0..9") . Please change the name accordingly and retry.

Explanation: A name for a query was specified which contained non-alphanumeric characters.

User response: Specify a query name composed of only alphanumeric characters.
Chapter 65. DB210000 - DB210499

DB210200I All applications must disconnect from the database before the changes become effective.

Explanation: The ADD or DROP DATALINKS MANAGER command has been successfully processed. However, the change cannot be made effective until all applications have disconnected from the database. After the applications disconnect from the database, the first connection to the database will cause the changes to become effective.

User response: Ensure that all applications disconnect from the database and issue a CONNECT statement.

DB210201I Reconcile utility should be run on database tables that contain links to files on the DB2 Data Links Manager. The DB2 Data Links Manager does not perform any unlink processing for these files.

Explanation: The DROP DATALINKS MANAGER command has been successfully processed. Confirm that no database tables contained links to files on the DB2 Data Links Manager before dropping the DB2 Data Links Manager. If such links exist, they should be removed from the database tables by using the reconcile utility. Note that the files themselves will remain in linked state on the file system. For additional details, see the usage notes for the DROP DATALINKS MANAGER command in the Command Reference.

User response: When you are ready to use the new configuration parameters, stop the instance, and then restart the instance. Rebind your packages if necessary.

DB210202E Less than number MB of memory is dedicated to your server. No recommendation has been made. The current values match the suggested values.

Explanation: Because the amount of memory dedicated to the server is so small, the Performance Configuration wizard cannot make a recommendation. Configuration parameters will not be changed.

User response: If you can dedicate more memory to the server, re-run the command with a larger value specified for the option MEM_PERCENT.

DB210203I AUTOCONFIGURE completed successfully. Database manager or database configuration values may have been changed if you chose to apply changes. The instance must be restarted before any such applied changes come into effect. You may also want to rebind your packages after the new configuration parameters take effect so that the new values will be used.

Explanation: The Configuration Advisor has generated its recommendations, and has updated the configuration parameters and buffer pool sizes as requested by the user. The changes will not take effect until the instance is restarted on the server. Packages were bound with the old configuration parameters. They need to be rebound, after the new parameters take effect, to exploit these new parameters.

User response: Contact your system administrator.

DB210204E An error occurred when the Configuration Advisor tried to get system information from your server.

Explanation: An unexpected error occurred. The Configuration Advisor cannot continue.

User response: Contact your system administrator.

DB210205W The Configuration Advisor was unable to increase the sizes of the buffer pools due to other memory requirements determined from your responses. The buffer pool sizes are left unchanged. The use of the suggested set of configuration values may cause paging on the server.

Explanation: This is a warning that there may not be enough memory dedicated to your server to run the workload that you specified.

User response: Review your input for this command to check that the workload description is appropriate or add more memory to your server.
DB210206W  The transactions rate you entered is more than ten times the average number of connected applications. If you are using a transaction manager, ignore this message. If not, consider changing the rate.

Explanation: The Configuration Advisor verifies that the transactions rate is reasonable. The transaction rate may be too high if you are not using a transaction manager.

User response: If you are using a transaction manager, ignore this message. Otherwise, use a lower number of transactions per minute, or increase the average number of connected applications.

DB210207E  Unable to autoconfigure database-name. Creation of database database-name failed.

Explanation: An unexpected error occurred. The Configuration Advisor cannot continue, and the database you were trying to create failed.

User response: Try running CREATE DATABASE without the AUTOCONFIGURE option, and then running AUTOCONFIGURE in order to configure your database.

DB210208E  Cannot autoconfigure databases in EEE system. Creation of database database-name failed.

Explanation: The AUTOCONFIGURE option is not available for EEE. The database was not created.

User response: Try running CREATE DATABASE without the AUTOCONFIGURE option, and then running AUTOCONFIGURE in order to configure your database.

DB210209I  The database was created successfully. Please restart the instance so configuration changes take effect.

Explanation: The Configuration Advisor has updated the database manager configuration parameters, database configuration parameters, and buffer pool sizes in the SYSBUFFERPOOLS catalog.

The changes will not take effect until the instance is stopped on the server.

Packages were bound with the old configuration parameters. They need to be rebound, after the new parameters take effect, to exploit these new parameters.

User response: When you are ready to use the new configuration parameters, stop the instance, and then start the instance. Rebind your packages if necessary.

DB210210E  The parameter for APPLY is not supported by the Configuration Advisor for this server release.

Explanation: Only APPLY DB OR DBM or APPLY NONE are valid parameters for the Configuration Advisor for this server release.

User response: Reissue the command using APPLY DB OR DBM or APPLY NONE.

DB210211W  AUTOCONFIGURE completed successfully, but has only calculated recommendations for the current database partition. You may wish to run AUTOCONFIGURE on all database partitions or propagate these recommendations to all database partitions on your system.

Explanation: The Configuration Advisor has generated its recommendations, and has updated the configuration parameters and buffer pool sizes as requested by the user for only the current database partition.

The changes will not take effect until the instance is restarted on the server, but should be propagated to other database partitions on this system by running AUTOCONFIGURE for each database partition, or through separate user action.

Packages were bound with the old configuration parameters. They need to be rebound, after the new parameters take effect, to exploit these new parameters.

User response: When you are ready to use the new configuration parameters, stop the instance, and then start the instance. Rebind your packages if necessary.

DB210212W  The recommendations made by the Configuration Advisor require a greater percentage of memory than that specified. No recommendation has been made. The current values match the suggested values.

Explanation: There is not enough memory available to be allocated for the recommendations made by the Configuration Advisor.

User response: Resubmit the command, specifying a greater percentage of memory.

DB210213W  The recommended number of disks for the specified inputs exceeds the number available. No recommendation has been made. The current values match the suggested values.

Explanation: There are not enough disks available for the recommendations made by the Performance Configuration Wizard.
DB210214W  The recommended amount of memory for the specified inputs exceeds the amount available. No recommendation has been made. The current values match the suggested values.

Explanation: There is not enough memory available to be allocated for the recommendations made by the Configuration Advisor.

User response: Resubmit the command either with different input values or once a greater amount of memory is available.

DB210215W  The Configuration Advisor was unable to assign a minimum amount of memory to the buffer pools due to other memory requirements determined from your responses.

Explanation: The Configuration Advisor is unable to provide a set of recommendations based on the specified database requirement with the specified memory resource.

User response: Increase the percentage of physical memory allocated, if more memory resource is available. Otherwise, increase the amount of physical memory on the server.

DB210220E  The command number specified is not valid.

Explanation: An invalid command number was specified for the EDIT or RUNCMD command. This command number does not exist in the current CLP interactive mode command history.

User response: Run the HISTORY command to see a list of valid command numbers and resubmit the EDIT or RUNCMD command specifying a valid command number.

DB210221E  The editor editor could not be launched.

Explanation: An invalid editor was specified for the EDIT command. This editor either does not exist or it is not contained in the PATH.

User response: The editor used in the EDIT command is decided in the following order:
- by using the value of the EDITOR environmental variable, if it was set.
- by using the value of the DB2_CLP_EDITOR registry variable, if it was set.
- by using the value of the VISUAL environmental variable, if it was set.

Specify a valid editor contained in the PATH in the EDITOR parameter of the EDIT command or in the appropriate registry/environmental variable.

DB210222E  The value specified for parameter is not in the valid range of number and number.

Explanation: An invalid value was specified for parameter. This value does not lie within the valid range of number and number.

User response: Refer to the appropriate documentation to find out the valid range for parameter and resubmit the command specifying a valid value.

DB210223E  The command command can only be run in the CLP's interactive mode.

Explanation: An attempt was made to run a DB2 command in either CLP's command or batch mode, but this command can only be run in CLP's interactive mode.

User response: Reissue the same command within the CLP's interactive mode.
The DECOMPOSE XML DOCUMENTS command successfully decomposed all documents. The number of documents requested was number-requested.

Explanation: No errors were encountered during the execution of this command.

User response: No user action is required.

One or more documents could not be decomposed. The number of documents successfully decomposed was number-successful. The number of documents attempted was number-attempted.

Explanation: Error conditions prevented one or more documents from being decomposed. For more details on the status of each document, refer to messages file specified by the MESSAGES parameter.

User response: To decompose the XML documents that were not successfully decomposed:

1. Review the error message information in the file specified by the MESSAGES parameter. If necessary, see the db2diag log file for more details about each error. The pertinent entries in the db2diag log file are identified by the document ID.

2. Correct the errors described in the error messages file.

3. Issue the DECOMPOSE XML DOCUMENTS command again, as follows:
   - If you specified a positive COMMITCOUNT value, reissue the command only for the documents that were not successfully decomposed.
   - If you specified a COMMITCOUNT value of 0, use one of the following options:
     - Perform a rollback, and then reissue the command for all the documents.
     - Commit the changes, and then reissue the command only for the documents that were not successfully decomposed.
Chapter 67. DB250000 - DB250499

DB250000I The command completed successfully.
User response: No action is required.

DB250001I CLPPlus has successfully read the configuration file named configuration-file-name.
Explanation: When the DB2DSRVER_CFG_PATH environment variable is set, or when the path to the configuration file is found automatically by Command Line Processor Plus (CLPPlus), CLPPlus will read the configuration file during a connect attempt. This message is only displayed when verbose is set to on using the CLPPLUS command.
User response: No user response is required.

DB250002E CLPPlus failed to read the configuration file named configuration-file-name in the directory named directory.
Explanation: During a connect attempt, Command Line Processor Plus (CLPPlus) failed to read the configuration file specified by the DB2DSRVER_CFG_PATH environment variable.
User response: Verify that the information in the configuration file is correct by performing the following steps:
  • Verify that the path to the configuration file matches what is specified by the DB2DSRVER_CFG_PATH environment variable.
  • Verify that the name of the configuration file matches what is specified by the DB2DSRVER_CFG_PATH environment variable.

DB250003E Could not find a DSN alias named dsn-alias-name in the configuration file named configuration-file-name. dsn-alias-name will be used as the database name in the subsequent interactive connect attempt.
Explanation: When a DSN alias name specified during a connect attempt is not found in the configuration file read by CLPPlus, the DSN alias name is used as a database name in the subsequent interactive CLPPlus connect attempt. All other values for the connect must be specified by the user.
User response: Continue with the interactive connect. You can also check the contents of the configuration file and use an existing DSN alias or create one for future use.

DB250004E The connection failed because an empty string was specified for the value for the database name.
Explanation: Command Line Processor Plus (CLPPlus) requires you provide a valid database name when prompted. Entering an empty string for a database name is not allowed.
User response: When prompted to retry the connection attempt, specify a valid database name.

DB250005E The command failed because the command is applicable only in a spawned console window.
Explanation: A specific command, meant only for use in the spawned console window, was issued in the current console window.
User response: Use only supported Command Line Processor Plus (CLPPlus) commands in the current console window.

DB250006E Command Line Processor Plus (CLPPlus) failed to start.
Explanation: The default invocation of CLPPlus on Linux and Unix requires XServer running on your desktop.
User response: Verify that the DISPLAY environment variable is set properly. Or, you can start a command line version of CLPPlus using the CLPPLUS command with the -nw option.

DB250007I CLPPlus canceled processing the current SQL statement due to a user initiated interrupt.
Explanation: The current SQL statement being processed by CLPPlus has been canceled. A user interrupt initiated the cancel request.
User response: If this was intentional then no response is required. If this was unintentional, reissue the canceled SQL statement.

DB250008E The CLPPlus command failed because the shell or environment variable with name variable-name could not be found.
Explanation: A CLPPlus command can include embedded shell or environment variables. If the
variable embedded in your CLPPlus command is not defined in the operating system the command fails.

User response: You can:
- Remove the reference to the variable and issue the command.
- Define the variable and issue the command.

DB250009E  The IMPORT CLPPlus command failed because the SKIPCOUNT value $n$ is greater than the total number of rows in the import file.

Explanation: The IMPORT CLPPlus command was run with the the SKIPCOUNT option. The value specified for SKIPCOUNT exceeds the number of rows in the import file read. No rows were imported.

User response: You can:
- reset the SKIPCOUNT to a value less than the number of rows in the import file by using the SET CLPPlus command and retry IMPORT.
- remove the SKIPCOUNT option and retry IMPORT.

DB250010E  The explain facility failed due to an error on the database server.

Explanation: When AUTOTRACE is set to ON in CLPPlus, and a select statement is run on an Informix database server, CLPPlus implicitly tries to set explain to on. SET EXPLAIN ON failed on the Informix database server and the statement failed.

User response: Check with your Informix database administrator for the reason why SET EXPLAIN ON failed. Retry after resolving the error.

DB250011E  Explain failed to generate data for the issued statement.

Explanation: When AUTOTRACE is set to ON in CLPPlus, and an SQL statement is run on an Informix database server, the explain plan is only generated for SELECT statements. A statement other than a SELECT statement was issued.

User response: Retry with valid SELECT statement.

DB250012E  CLPPlus failed to process explain data.

Explanation: When AUTOTRACE is set to ON in CLPPlus, and an SQL statement is run on an Informix database server, CLPPlus is unable to parse the explain plan data generated in XML format.

User response: None

DB250013E  A CLPPlus connection failed because security mechanism security-mechanism specified for DSN alias dsn-alias in the db2dsdriver.cfg file is not supported by CLPPlus.

Explanation: The security mechanism specified for a DSN alias in the db2dsdriver.cfg file is not supported in CLPPlus. Any connection attempt using this DSN alias fails and is terminated.

User response: You can:
- specify a valid CLPPlus security mechanism in the db2dsdriver.cfg file for the applicable DSN alias and retry.
- remove the security mechanism parameter for the applicable DSN Alias from the db2dsdriver.cfg file and retry.

DB250014I  DSN alias dsn-alias is not found in the configuration file named config-file.

Explanation: A DSN alias specified during a connect attempt is not found in the dsdriver configuration file read by CLPPlus. CLPPlus continues to search the LDAP Directory server configured by the user for that DSN alias.

User response: None required. CLPPlus continues to search in the LDAP directory server for an entry named dsn-alias.

DB250015I  CLPPlus successfully established a connection with LDAP directory server LDAP-server.

Explanation: Connection information for an LDAP directory server was found in the dsdriver configuration file and a successful connection was established with that LDAP server during a CLPPlus connect attempt.

User response: None

DB250016E  DSN alias dsn_alias was not found in LDAP directory server LDAP-server. dsn_alias is used as the database name in the subsequent interactive CLPPlus connect attempt.

Explanation: The DSN Alias name specified during a CLPPlus connect attempt is not found in LDAP directory server. The DSN alias name is treated as database name in the subsequent interactive connect attempt. All other required values for the connection must be specified interactively.

User response: You can:
- continue with the interactive connect attempt.
- use an existing DSN alias name and retry the connect attempt.
create the DSN alias that was not found and retry the connect attempt.

DB250017E CLPPlus failed to establish a connection with the following LDAP directory server: LDAP-server. The following alias was used as the database name in an interactive connect attempt: dsn-alias.

Explanation: CLPPlus failed to establish a connection with an LDAP directory server. The DSN Alias name used during the initial connect attempt will be treated as the database name in a subsequent interactive connect attempt. All other required values for the connection are specified interactively.

User response: Respond to this message in one of the following ways:

- Continue with interactive connect.
- Verify and correct the LDAP directory server configuration in the db2dsdriver.cfg file, and retry the connection.
- Check with the LDAP administration to ensure the LDAP directory server is running and retry the connection.

As an aid, when possible, a partial list of valid tokens is provided in the token-list. This list assumes the statement is correct to that point. If the valid values would be unknown user inputs, token-list might be blank.

The command cannot be processed.

User response: Refer to the documentation of the command to identify the valid command syntax.

Examine and correct the command in the area of the specified token. Issue the command again.

DB250102E The command syntax is invalid. The value of command parameter parameter-name of type type is invalid. Valid values include: token-list.

Explanation: The command syntax is invalid. A command parameter parameter-name is of an invalid data type.

The command cannot be processed.

User response: Examine and correct the parameter value the area of the specified token. Issue the command again.

DB250103E The command syntax is invalid. The value of command parameter parameter-name is out of range. The valid range is lower-bound to upper-bound, inclusive.

Explanation: This message is returned when a value for a parameter is specified that is out of range for that parameter. The token parameter-name indicates the parameter for which an out of range value was specified.

User response: Issue the command again, specifying a value for the named parameter that is in the given range.

DB250104E The command is not supported for the database-server data server.

Explanation: The command is not supported for specified data server. The command failed.

The command cannot be processed.

User response: Refer to the documentation for the supported commands for the current data server.

DB250105W The CLPPlus command SET LOCALE failed because the locale locale is not valid or not supported in the CLPPlus environment.

Explanation: The CLPPlus environment, by default, sets the locale with the value set in the operating system. You can also set or change the locale used by
the CLPPlus environment with the SET LOCALE
CLPPlus command.

The SET LOCALE command specified a locale that is
not valid or not supported in the CLPPlus
environment. The SET LOCALE command failed and
the CLPPlus environment continues to use the last
valid locale setting.

**User response:** Specify a valid and supported locale
and run the command again.

---

**DB250200E** The feature feature-name can not be
enabled because the feature does not
exist in the current installation.

**Explanation:** The feature name feature-name is not
valid. For valid feature names, search the DB2
documentation.

**User response:** Specify a valid feature name, then try
the request again.

---

**DB250201E** No database connection exists, but a
database connection is required.

**Explanation:** A database connection is required to
issue the command. There is no database connection.

**User response:** Establish a database connection using
the clpplus command and try again.

---

**DB250202E** Connections to databases of type
database-type are not supported by this
feature.

**Explanation:** The database type is not valid. For valid
database types, refer to the documentation.

**User response:** Specify the name of a database of a
valid database type, then try the request again.

---

**DB250203E** Connection failed to be established.

**Explanation:** An attempt to establish a database
connection failed. No database connection exists.

Possible reasons include:

- Invalid user-name
- Invalid password
- Invalid hostname
- Invalid database name
- Invalid port number

**User response:** If explicitly connecting to a database,
verify and correct the command syntax and try again.
Otherwise try again and if the connection still cannot
be established, contact your database administrator.

---

**DB250204E** An attempt to locate a file filename
failed. The command cannot be
processed.

**Explanation:** A required file filename could not be
located. Possible reasons include:

- Invalid file name
- Invalid file path
- File not in the file path
- Permissions on file or path do not allow reading of
  files

**User response:**

- Verify that the file name is correct and that the file
  exists in the specified location.
- Verify that the permissions on the file path and file
  allow read access of files.

---

**DB250205E** Attempt to read file file-name failed.

**Explanation:** An attempt to read the file parameter
file-name failed. Possible reasons include:

- Invalid permissions on the file system.

The command cannot be processed.

**User response:** If the file is a user-defined file, verify
that the file permissions allow the file to be read.

---

**DB250206E** env-variable-name is not a defined
environment variable.

**Explanation:** The name env-variable-name is not a
defined Command Line Processor Plus (CLPPlus)
environment variable name or the variable is not set to
a required value.

**User response:** Verify and correct the command
syntax, specify a valid environment variable name, and
reissue the command or verify and set, if needed, the
following CLPPlus environment variables set to
required values:

On Windows operating systems:
- **Variable:** CLPPLUS_HELP
  - **Value:** sqllib/bin/clpplus.bat

On UNIX operating systems:
- **Variable:** CLPPLUS_HELP
  - **Value:** sqllib/bin/clpplus.sh

---

**DB250207E** Attempt to create file filename failed.

**Explanation:** The required file filename could not be
created. Possible reasons include:

- File already exists
- Invalid filename
- Invalid file path
- Invalid permissions on the file system

---

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• Insufficient memory in the file system

User response: If the file is a user-defined file, verify and correct the filename or file path, verify that the path is valid, verify that files can be written to the path, and that there is sufficient memory. If the file is a system-generated file, re-issue the command - if the command still fails, contact your database administrator.

---

**DB250208E** Invalid command sequence. A prerequisite command must be issued before this command. A possible prerequisite command is *prereq-command*.

Explanation: For some CLPPlus commands, there is a prerequisite that one or more other CLPPlus commands be issued first. If the prerequisite commands are not issued, the current command cannot be issued. The command has not been processed.

User response: Issue the recommended prerequisite command, then reissue the current command. For more information about the command, see the CLPPlus documentation.

---

**DB250209I** A connection has been established.


Explanation: A database connection has been established to a database of type: *product-name* of version: *version*. The host name of the database server is *hostname*. The port number is *port-number*. The name of the database is *database-name*. The authorization ID of the user is *auth-id*.

Database commands can now be issued for this database.

Queries and database operations can now be executed for this database.

Command Line Processor Plus (CLPPlus) commands that require a connection can be executed until the connection is closed or reset.


---

**DB250210I** The connection to database *database-name* has been closed.

Explanation: The connection to database *database-name* has been closed. No database communications can be made at this time.

User response: To execute database operations or to issue commands that require a database connection, re-establish a database connection by issuing the CLPPLUS command.

---

**DB250211E** The database object named *object-name* was not found in the database.

Explanation: You can list packages or tables that were created by the current user in the database by issuing the LIST PACKAGES command or the LIST TABLES command.

You can retrieve meta-data information about database objects such as tables, views, functions, and others by issuing the DESCRIBE command, and specifying the database object by name.

This message is returned when either the LIST command or DESCRIBE command is issued for a specified database object, and that object cannot be found in the database.

If this message was returned when the LIST command was issued, it is possible that the database object being searched for was created by a user other than the current user. By default, the LIST command lists only those database objects that were created by the current user.

User response: Verify that the database object exists, and was created by the current user.

---

**DB250212E** The database object named *object-name* with type *type* was not found in the database.

Explanation: You can retrieve meta-data information about database objects such as tables, views, functions, and others by issuing the DESCRIBE command, and specifying the database object by name.

This message is returned when the DESCRIBE command is issued for a specified database object, and that object cannot be found in the database.

User response: Verify that the database object exists, and was created by the current user.

---

**DB250300E** An unexpected SQL error occurred while disconnecting from a database.

Explanation: An SQL error occurred while committing data or closing a database connection for which no further information is available.

User response: If required, re-establish a connection to the database before performing further database operations.

---

**DB250301E** An unexpected SQL error occurred while processing a Command Line Processor Plus command.

Explanation: An unexpected SQL related error occurred on the data server which has interrupted the processing of the Command Line Processor Plus command. The command execution has not completed.
DB250302E  An asynchronous notification notification-name received from the data server process with process ID (PID) process-id.

Explanation: An asynchronous notification from the data server occurred with name notification-name and process ID process-id might require your immediate attention.

User response: Using the process ID value, look up the process and related notification. Respond to any urgent requirements if required. Command Line Processor Plus is still active.

DB250303E  The Command line processor plus line buffer size is less than the size of column column-name.

Explanation: Column values cannot be displayed, because the Command line processor plus line buffer size is less than the size of column column-name. The column values would be truncated.

User response: Specify a line buffer width that is greater than the column width and then issue the command or execute the SQL buffer again.

DB250400E  The buffer line number is invalid. Valid values can be between min-value and max-value.

Explanation: The command attempts to operate on a line in the buffer and the buffer line number provided is invalid. The line number could be wrong because there are no lines in the buffer or because the line number is out of range for the buffer. It is either less than “min-value” or greater than “max-value”.

User response: Re-submit the command with a valid line number.

DB250401E  Spooling cannot be turned off because it is already off.

Explanation: The SPOOLING OFF command has already been processed. The command cannot be processed.

User response: Because the command is already processed, no further action is required.

DB250402E  The command or statement terminator value is invalid.

Explanation: The SQL terminator must be exactly one character long.

User response: Set the terminator character to a single character value.

DB250405E  The DESCRIBE command does not support objects of type object-type. Valid types include token-list.

Explanation: The DESCRIBE command can be used to access the definitions of a sub-set of database object types in a database. The object type object-type is not supported. Valid objects include those in token-list.

User response: Refer to the DESCRIBE command documentation for a list of valid database object types. Specify the name of a supported database object and try again.

DB250406E  The database object name of type object does not contain columns.

Explanation: The issued command requires the specification of a database object that contains columns. Valid objects include:

- tables
- views
- catalog tables
- catalog views

The specified object did not contain any columns.

User response: Specify the name of a database object that contains columns.

DB250407E  The separator character character is invalid.

Explanation: The character character specified as a separator character is invalid. Its use is not compatible with the use of the quotation mark character within the command syntax.

User response: Do the following:
1. Specify a different separator character or terminator character.
2. Verify and correct the command syntax.
3. Reissue the command.

DB250408E  No user substitution variables are defined.

Explanation: A user substitution variable was referenced, but no user substitution variables are defined.
The command cannot be processed.

User response: Define a user substitution variable and try again.

**DB250409E** The command cannot be executed when the SQL buffer is empty.

Explanation: The command cannot be issued when there is no data in the SQL buffer.

User response: Add statements to the SQL buffer and re-submit the command.

**DB250410I** The Command Line Processor Plus is currently paused with the pause value set to **pause-text**.

Explanation: The PAUSE command was previously issued with the pause text **pause-text**. To exit the paused state initiated by the PAUSE command, the enter key must be pressed.

User response: Press enter to exit the paused state.

**DB250411E** The data type, **type**, of the column named **column-name** is not supported for this computation function.

Explanation: The data type of the named column is not supported for the computation function specified in the COMPUTE command.

Valid numeric data type include the following:

- SMALLINT
- LONG
- DOUBLE
- FLOAT
- DECIMAL
- INTEGER

User response: Specify a column of a valid data type as an argument to the function.

**DB250412E** No defined computations are available to be displayed.

Explanation: No computations have been defined using the COMPUTE command.

User response: If you want to calculate and display compute information, issue the COMPUTE command at least once and then issue the SHOW COMPUTE command.

**DB250413E** A compute with label **label** is already defined.

Explanation: A compute with the name **label** is already defined for the column.

User response: Define the computation using a different name or modify the computation so that it specifies a different column.

**DB250414I** There are no columns defined.

Explanation: You can list the columns that have been defined by issuing the SHOW COLUMN command or by issuing the COLUMN command with no parameters.

This message is returned when the SHOW COLUMN command is issued, or when the COLUMN command is issued with no parameters, and there are no columns to display.

User response: You do not need to respond to this message.

**DB250415W** No breakpoints were cleared, because there are no breakpoints defined for the specified column.

Explanation: You can clear any breakpoints that have been defined for a column by issuing the CLEAR BREAK command, specifying the column name.

This message is returned when the CLEAR BREAK command has been issued for a specified column, and no breakpoints were defined for that column.

User response: You do not need to respond to this message.

**DB250416W** There were no compute actions defined for the column named **column-name** to clear.

Explanation: You can clear all the compute actions that have been defined for a given column by issuing the CLEAR COMPUTES command, specifying the column from which to clear the compute actions.

This message is returned when no compute actions have been defined for the specified column.

User response: You do not need to respond to this message.

**DB250417E** The following function, specified in the COMPUTE command, is not a supported function for a compute action: **function**.

Explanation: You can use the COMPUTE command to define a compute action to be performed for a given column when a breakpoint for that column is reached.

The syntax of the COMPUTE command is:

```
COMPUTE <function-1> LABEL <label-1>
  OF <column-1>
  [[, <function-2> LABEL <label-2>
    OF <column-2> ...]
  ON <column-n>]
```
where <function> can be one of:
[ SUM | MAX | MIN | AVG | COUNT | NUM ]

This message is returned when an invalid value for
<function> is specified.

**User response:** Issue the COMPUTE command again, specifying a valid function.

---

**DB250418W**  The specified compute action was previously defined.

**Explanation:** The COMPUTE command is used with the BREAK command. You can define a breakpoint for a specified column by issuing the BREAK command. You can use the COMPUTE command to define a compute action to apply to the specified column when a breakpoint for that column is reached during the execution of a SQL statement. A compute action is a function such as SUM, COUNT, or MAX that is applied to all elements of the column.

This message is returned when the COMPUTE command is issued to define a compute action for a column that is identical to a compute action that was previously defined for that column.

**User response:** You do not need to respond to this message.

---

**DB250419W**  The SQL buffer is empty.

**Explanation:** As you issue CLPPlus commands, such as COMPUTE, and BREAK, the resulting objects and actions are stored in the SQL buffer.

Here is a list of just some of the actions that you can perform on a SQL buffer:
- You can edit the contents of the SQL buffer by issuing the EDIT command.
- You can append to the contents of the SQL buffer by issuing the APPEND command.
- You can clear the contents of the SQL buffer by issuing the CLEAR command.

When a SQL statement is executed, the contents of that SQL buffer affect the execution. For example, breakpoints and compute actions have been defined for a column, they will take effect when the SQL statement is run.

This message is returned when an attempt is made to act on the SQL buffer, but the SQL buffer is empty.

**User response:** You do not need to respond to this message.

---

**DB250420E**  Creation of a new bind variable failed because a bind variable already exists with the specified name.

**Explanation:** You can create bind variables to contain values, and use those bind variables in SQL statements.

The scope of bind variables is the database session. After you connect to a database, you can create and use bind variables for the duration of that database session. When you disconnect from the database, those bind variables cease to exist.

You can create bind variables using the following syntax:

```
VARIABLE <bind-variable-name> <data-type>
```

This message is returned when an attempt is made to create a new bind variable, specifying the same name for that new variables as the name of a bind variable that already exists.

**User response:** To create a new bind variable, issue the VARIABLE command again, specifying a name that is not the same as the name of any existing bind variable.

---

**DB250421I**  There are no breakpoints defined.

**Explanation:** You can list breakpoints that have been defined by issuing the BREAK command with no parameters.

This message is returned when the BREAK command is issued with no parameters, and there are no breakpoints to display.

**User response:** You do not need to respond to this message.

---

**DB250422W**  No columns were cleared, because there are no columns defined.

**Explanation:** You can clear any columns that have been defined by issuing the CLEAR COLUMN command.

This message is returned when the CLEAR COLUMN command has been issued, and no columns were defined.

**User response:** You do not need to respond to this message.
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DB250500W  An error occurred during the initialization of the CLPPlus terminal. However, processing can continue.

Explanation: This message is returned when an internal error occurs while the CLPPlus terminal is being initialized. The initialization did not fail, and you can proceed with CLPPlus commands.

User response: You do not have to respond to this message.

DB250501E  Column with name column-name is not defined.

Explanation: The column column-name specified is not defined.

User response: Define the column and retry the command, or retry the command with a defined column.

DB250502E  The name name is too long. The maximum length is maximum-length.

Explanation: The length of the name specified is too long.

User response: Retry the command with a name shorter than the maximum length specified.

DB250503E  No format and display attributes found for column column-name.

Explanation: The specified column does not have any format or display attributes set.

User response: Using the COLUMN command, define any required format and display attributes for the column and retry the command.

DB250504E  The ACCEPT command failed to accept the value for the substitution variable substitution-variable after three consecutive input value format errors.

Explanation: The value of the substitution variable does not conform to the format specified in the ACCEPT command. Users are prompted to retry the command with a suitable substitution variable until three consecutive attempts have failed. The ACCEPT command has failed.

User response: Ensure the substitution variable has a value that conforms to the format specified in the ACCEPT command and retry the ACCEPT command.

DB250505E  Error fetching server output messages.

Explanation: Server side procedures can have output messages. When you ask to print these messages on the client console, using the 'set serveroutput on' command, CLPPlus attempts to retrieve the server output messages from the server after the procedure has run.

An error has occurred when retrieving these server output messages.

User response: Check the server-side db2diag.log for any associated errors.

DB250506E  A column with alias name column-alias is already defined.

Explanation: An alias name column-alias already exists for the column.

User response: Retry the command with a unique alias name.

DB250507I  No errors found.

Explanation: The Command Line Processor Plus command (CLPPlus) SHOW ERRORS returned successfully and found no errors.

User response: No user response is required.

DB250508I  No errors found for procedure-name.

Explanation: The Command Line Processor Plus command (CLPPlus) SHOW ERROR returned no errors for the procedure procedure-name.

User response: No user response is required.

DB250601E  The SQL statement could not be executed because the following bind variable is used in the SQL statement, but does not exist: bind-variable-name.

Explanation: You can create bind variables to contain values, and use those bind variables in SQL statements.

The scope of bind variables is the database session. After you connect to a database, you can create and use bind variables for the duration of that database session. When you disconnect from the database, those bind variables cease to exist.

You can create bind variables using the following syntax:

VARIABLE <bind-variable-name> <data-type>
You can use bind variables in SQL statements like this:

```
DELETE employee WHERE empno = :id;
```

where "id" is a bind variable.

This message is returned when an attempt is made to execute a SQL statement that contains a bind variable that has not been defined.

**User response:** Respond to this message in one of the following ways:

- Define the variable that was used in the SQL statement, and then attempt to execute the SQL statement again.
- Attempt to execute the SQL statement again, specifying a bind variable that is defined.
Chapter 69. DB255000 - DB255499

DB255000I The RDF utilities were unable to sort the RDF triples.

Explanation:
- You need to have access to the SORT command on Linux and UNIX operating systems.
- You need to have the Cygwin program installed on the Windows operating system.

User response: Ensure you have the proper permission or application installed for your operating system. Then attempt the operation again.

DB255001E The SPARQL query failed because an unexpected database error occurred while the query was being processed. Query: query-details. SQLCODE: sqlcode. SQLSTATE: sqlstate.

Explanation: You can take advantage of the Resource Description Framework (RDF) with DB2 databases using the DB2 database RDF utility commands such as createRdfStore. You can query RDF data that is stored in DB2 databases using the SPARQL query language.

This message is returned when an attempt is made to query RDF data that is stored in a DB2 database, but an error was encountered while the query was being processed.

To assist with troubleshooting, the underlying database error code is included in the runtime token sqlcode. More diagnostic information can be found in the db2diag diagnostic log files. The runtime token sqlstate might sometimes be empty because not all SQL errors have an associated sqlstate.

User response: Respond to this error by performing the following troubleshooting steps:
1. Search in the db2diag log files for the sqlcode and sqlstate given in the runtime tokens sqlcode and sqlstate.
2. Examine the underlying database error message returned by the DB2 database.
3. Take corrective actions to fix the error.
4. Run the RDF command again to create the new RDF store.

DB255002E Creation of an RDF store failed because an unexpected database error occurred while the underlying database objects were being created. SQLCODE: sqlcode. SQLSTATE: sqlstate.

Explanation: You can take advantage of the Resource Description Framework (RDF) with DB2 databases using the DB2 database RDF utility commands such as createRdfStore. You can query RDF data that is stored in DB2 databases using the SPARQL query language.

This message is returned when an attempt is made to drop an existing RDF store from a DB2 database, but an error was encountered while the underlying tables and other database objects were being dropped and cleaned up.

To assist with troubleshooting, the underlying database error code is included in the runtime token sqlcode. More diagnostic information can be found in the db2diag diagnostic log files. The runtime token sqlstate might sometimes be empty because not all SQL errors have an associated sqlstate.

User response: Respond to this error by performing the following troubleshooting steps:
1. Search in the db2diag log files for the sqlcode and sqlstate given in the runtime tokens sqlcode and sqlstate.
2. Examine the underlying database error message returned by the DB2 database.
3. Take corrective actions to fix the error.
4. Call the droprdfstore command to drop the RDF store.

DB255004E  Updating the statistics for an RDF store failed because an unexpected database error occurred during the operation. 
SQLCODE: sqlcode. SQLSTATE: sqlstate.

Explanation: You can take advantage of the Resource Description Framework (RDF) with DB2 databases using the DB2 database RDF utility commands such as create rdfstore. You can query RDF data that is stored in DB2 databases using the SPARQL query language.

This message is returned when an attempt is made to update the statistics for an RDF store in a DB2 database, but an error was encountered while the statistics for the underlying database objects were being updated.

To assist with troubleshooting, the underlying database error code is included in the runtime token sqlcode. More diagnostic information can be found in the db2diag diagnostic log files. The runtime token sqlstate might sometimes be empty because not all SQL errors have an associated sqlstate.

User response: Respond to this error by performing the following troubleshooting steps:
1. Search in the db2diag log files for the sqlcode and sqlstate given in the runtime tokens sqlcode and sqlstate.
2. Examine the underlying database error message returned by the DB2 database.
3. Take corrective actions to fix the error.
4. Execute the reorganization operation again.

DB255005E  Reorganizing an RDF store failed because an unexpected database error occurred during the operation. 
SQLCODE: sqlcode. SQLSTATE: sqlstate. 
Reason code: reason-code.

Explanation: You can take advantage of the Resource Description Framework (RDF) with DB2 databases using the DB2 database RDF utility commands such as create rdfstore. You can query RDF data that is stored in DB2 databases using the SPARQL query language.

To create tables optimized for an RDF store, you can reorganize the RDF store. Reorganizing an RDF store involves three steps, and this message can be returned when the reorganization operation fails in one of these three steps. The runtime token reason-code indicates which steps the reorganization operation failed:
1. Identifying whether the RDF store needs to be reorganized using the reorgcheckrdfstore command.
2. Creating tables and scripts to prepare to reorganize the RDF data using the reorgrdfstore command.
3. Transferring the RDF data into the new, optimized tables using the reorgcomplete command.

To assist with troubleshooting, the underlying database error code is included in the runtime token sqlcode. More diagnostic information can be found in the db2diag diagnostic log files. The runtime token sqlstate might sometimes be empty because not all SQL errors have an associated sqlstate.

User response: Respond to this error by performing the following troubleshooting steps:
1. Search in the db2diag log files for the sqlcode and sqlstate given in the runtime tokens sqlcode and sqlstate.
2. Examine the underlying database error message returned by the DB2 database.
3. Take corrective actions to fix the error.
4. Execute the reorganization operation again.

DB255006E  Updating data in an RDF store failed because an unexpected database error occurred during the operation. 
SQLCODE: sqlcode. SQLSTATE: sqlstate.

Explanation: You can take advantage of the Resource Description Framework (RDF) with DB2 databases using the DB2 database RDF utility commands such as create rdfstore. You can query RDF data that is stored in DB2 databases using the SPARQL query language.

This message is returned when an attempt is made to update data in an RDF store in a DB2 database, but an error was encountered while the operation was being processed.

To assist with troubleshooting, the underlying database error code is included in the runtime token sqlcode. More diagnostic information can be found in the db2diag diagnostic log files. The runtime token sqlstate might sometimes be empty because not all SQL errors have an associated sqlstate.

User response: Respond to this error by performing the following troubleshooting steps:
1. Search in the db2diag log files for the sqlcode and sqlstate given in the runtime tokens sqlcode and sqlstate.
2. Examine the underlying database error message returned by the DB2 database.
3. Take corrective actions to fix the error.
4. Execute the RDF command again.
1. Rename existing tables which are causing the conflict.
2. Edit objectnames file and provide a different physical name for the tables which are causing the conflict.

User response:
Assign the proper privilege to the user. Then issue the command again.

Creation of an RDF store failed because the page size of the table spaces in the specified schema is too small.

Explanation:
An RDF store requires a table space with a page size of 32 KB to successfully create all the columns.

User response:
Create a table-space with 32 KB page size. Then use it to create the RDF store.

Creation of an RDF store failed because an RDF store with the specified name already exists in the specified schema.

Explanation:
There is a naming conflict for the RDF store you are attempting to create.

User response:
Use a different name to create the RDF store.

The RDF command failed because the specified RDF store does not exist in the specified schema.

Explanation:
The RDF store you are attempting to connect to does not exist.

User response:
1. Check the name of the RDF store that you are connecting to and issue the command again.
2. Create the RDF store and then connect to it.

The droprdstore command failed because the current user id does not have required authority or privileges to drop a table in the RDF store.

Explanation:
The user does not have the proper authority to drop the RDF store table.

User response:
Ensure the user has the DROP TABLE privilege for this database.

Then issue the command again.

The RDF operation failed because the current user id does not have SELECT privileges on the data tables for the RDF store.

Explanation:
The user does not have the proper authority to read the data tables accessed using RDF commands or APIs.

User response:
Ensure the user has been granted READ permission for these tables.

Then issue the command or API again.

The RDF command failed because a mandatory parameter was not specified.

Explanation:
This is a mandatory parameter for this command line tool.

User response:
Check your command to ensure it contains the mandatory parameter.

Then issue the command again.
DB255016E  The RDF command failed because the specified RDF store name is too long. 
Specified RDF store name: store-name.
Explanation: The maximum length of a store name is 128.
User response: Ensure the store name is less than the maximum number of characters. Then issue your command again.

DB255017E  Gathering statistics for an RDF store failed because the current user id does not have the required authority or privileges on a table in the RDF store. 
Table name: table-name. Schema name: schema-name.
Explanation: The user does not have the proper authority to gather the latest statistics.
User response: 
1. Ensure the user has READ privilege on all tables for this database.
2. Ensure the user has UPDATE privilege on all the statistics tables.

Then issue the command again.

DB255018E  Creation of a new RDF graph failed because the specified graph name, "DEF", is invalid.
Explanation: DEF is reserved for IBM use. It can not be used as the name of any user created graph.
User response: Rename the graph. Avoid using DEF as the name.

DB255019E  The RDF operation failed because the specified RDF quad contains a URI that is too long. 
Explanation: An URI in the quad has exceeded the maximum length of 2048 characters.
User response: Examine the quad to reduce the length of the offending URI to less than 2048 characters.

DB255020E  Parsing of a SPARQL query failed. 
Specified SPARQL query: query. Line number of the problem in the query: line-number. Column number of the problem in the query: column-number.
Explanation: Check your SPARQL query at the location specified.
User response: Rectify the error and issue the query again.

DB255021E  The SPARQL feature feature-name is not supported.
Explanation: IBM APIs do not support the feature.
User response: Edit your query to refrain from using the unsupported feature.

DB255022E  The RDF command failed because the following parameter is invalid: parameter-name.
Explanation: 
1. Parameters can not be abbreviated.
2. Parameters can be issued in lower case only.
User response: 
1. Check the spelling of the parameter.
2. Ensure the parameter is in lower case.

Issue the command again.

DB255023E  The createdfsstoreandloader command failed because the RDF utility could not create the file specified with the -storeloadfile parameter or the utility could not create the file specified with the -store schemafile parameter.
Explanation: The user specified directory can not be created on the file system.
User response: Ensure the directory structure already exists on the file system. Then Issue the command again.

DB255024E  The RDF command failed because the current user id does not have INSERT and UPDATE privileges on the data tables for the RDF store. RDF store name: store-name. Schema name: schema-name.
Explanation: The user does not have the proper authority to write to the data tables accessed using RDF commands or APIs.
User response: Ensure the user has been granted WRITE permission for these tables.

Then issue the command or API again.

DB255025E  The RDF command failed because the specified RDF store name does not satisfy DB2 database table naming conventions. Specified RDF store name: store-name.
Explanation: The name must conform to naming conventions for table objects. Specifically, the name must not contain any space characters.
**User response:** Ensure the store name does not contain any invalid characters. Then issue your command again.

---

**Explanation:** The schemaName does not follow the rules of DB2 schema names.

**User response:** Ensure the schemaName rules are not being violated. Then issue your command again.

---

**User response:** Examine the quad to reduce the length of the offending item to less than the configured length for the store.

---

**User response:** 
- Examine the quad to reduce the length of the offending item to less than the configured length for the store.
- Increase the configured length of literals for the store.

---

**User response:** Provide all the table names. Then issue your command again.

---

**User response:** Respond to this error by performing the following troubleshooting steps:
1. Search in the db2diag log files for the sqlcode and sqlstate given in the runtime tokens sqlcode and sqlstate.
2. Examine the underlying database error message returned by the DB2 database.
3. Take corrective actions to fix the error.
4. Run the RDF operation again.

---

**User response:** Ensure the Cygwin application has been added to the path on Windows.
The reorgswitchrdfstore command failed because reorganized tables for the RDF store are unavailable.

**Explanation:** The reorgswitchrdfstore command transfers the RDF store to the new tables. No new reorganized tables are currently available for this store.

**User response:** Issue the reorgrdfstore command first. After it completes successfully, then issue the reorgswitchrdfstore command.

---

The following RDF command failed because the command is being issued remotely. Command name: `command-name`.

**Explanation:** This command can only be run locally on the DB2 database Server.

**User response:** Command `command-name` has to be run locally on the DB2 database server.

---

RDF data reorganization has completed.

**Explanation:** Table data has been successfully reorganized into the new tables.

**User response:** Begin using the reorganized tables by issuing the reorgswitchrdfstore command.

---

Connecting to an RDF store failed because an unexpected database error occurred during the operation. SQLCODE: `sqlcode`, SQLSTATE: `sqlstate`.

**Explanation:** You can take advantage of the Resource Description Framework (RDF) with DB2 databases using the DB2 database RDF utility commands such as createrdfstore. You can query RDF data that is stored in DB2 databases using the SPARQL query language.

This message is returned when an attempt is made to connect to an RDF store in a DB2 database, but an error was encountered while the connection was being processed.

To assist with troubleshooting, the underlying database error code is included in the runtime token `sqlcode`. More diagnostic information can be found in the db2diag diagnostic log files. The runtime token `sqlstate` might sometimes be empty because not all SQL errors have an associated sqlstate.

**User response:** Respond to this error by performing the following troubleshooting steps:

1. Search in the db2diag log files for the sqlcode and sqlstate given in the runtime tokens `sqlcode` and `sqlstate`.
2. Examine the underlying database error message returned by the DB2 database.
3. Take corrective actions to fix the error.

---

The reorgrdfstore command failed because an invalid value was specified for the `-table` parameter. Specified table name: `specified-table-name`.

**Explanation:** You can create tables with optimal number and length of columns for an RDF store using the reorgrdfstore command. You can specify which RDF store table needs to be reorganized using the `-table` parameter with the reorgrdfstore command. This message is returned when the value specified with the `-table` parameter is not a valid name of an RDF store table.

**User response:** Call the reorgrdfstore command again, specifying a valid RDF store table name with the `-table` parameter.

---

RDF store creation failed because the value of the database LOGFILSZ parameter is not large enough.

**Explanation:** The minimum required DB2 LOGFILSZ parameter value is 20000 or more. If you get this error even with a value of 20000, you need to increase it further.

**User response:**
1. Update the LOGFILSZ database configuration parameter to a larger value.
2. Issue the store creation command again.

DB255040E  RDF store creation failed because the table space specified for a RDF Store table in the -objectnames parameter does not exist. Table space name: table-space-name.

Explanation: The table space specified in the properties file of the -objectnames parameter does not exist.
User response: Create the table space or check the spelling of the table space. Then issue the command again.

DB255044E  The queryrdfstore command failed because the SPARQL query is missing.

Explanation: The queryrdfstore command accepts the SPARQL query as an input parameter in one of the following two ways:
- as a file using the file parameter
- as an inline string specified as the last argument to the queryrdfstore command

The command is missing the required query string.
User response: Ensure that a SPARQL query is available to the queryrdfstore command as a parameter. Then issue the command again.

- turtle
- n3

User response: Ensure the load file is formatted properly. Then issue the loadrdfstore command again.

DB255041E  The queryrdfstore command failed because reopt ONCE or ALWAYS option was specified but the corresponding REOPT package is not bound.

Explanation:
- You need to bind the REOPT NULLIDR1 package if you are using the reopt ONCE option.
- You need to bind the REOPT NULLIDRA package if you are using the reopt ALWAYS option.

For more information, see: http://www.ibm.com/developerworks/data/library/techarticle/dm-1011reopt/
User response: Bind the respective NULLIDR1 or NULLIDRA packages. Then issue the queryrdfstore command again.

DB255042E  The loadrdfstore command failed because the input load file is not specified as the last argument to the loadrdfstore command.

Explanation: The loadrdfstore command requires an input load file. This load file is used to list the commands to load data into an RDF store.
User response: Ensure the load file is specified. Then issue the loadrdfstore command again.

DB255043E  The loadrdfstore command failed because the format of the input load file is not supported.

Explanation: The loadrdfstore command requires an input load file in a supported file format.
The following load file formats are supported:
- nquad
- ntriple
- rdfxml
- trig
Part 11. DBA Messages

This section contains the messages generated by the Database Administration (DBA) tools. The messages are listed in numeric sequence.
Chapter 70. DBA0000 - DBA0499

DBA0000I  The function completed successfully.

Explanation:  This message is for your information only.

User response:  No action is required.

DBA0001E  An internal error occurred when allocating memory.

Explanation:  An internal error occurred when allocating memory. The application is terminated.

User response:  Try closing some applications to release memory. If the problem persists, contact IBM Service.

DBA0002E  An internal error occurred. Unexpected input was received from the request.

Explanation:  An unexpected input value was received from the request. The application is terminated.

User response:  Contact IBM Service.

DBA0003E  An inconsistency in the table definition was detected when processing the alter request.

Explanation:  When processing an alter table request, an inconsistency was detected between the last known table definition and the table definition fetched from the database. The table definition might have changed outside of the context of the administration tool. The table cannot be altered. The request is terminated.

User response:  Select the "Refresh" action on the "Tables" pop-up menu to get an updated list of tables from the database. Try altering the table again.

DBA0004E  An error occurred when validating a connection to a database.

Explanation:  An invalid connection was detected. A problem can occur if the server is brought down, the currently held connections are no longer valid, and a new connection cannot be obtained. The request is terminated.

User response:  Ensure that the server is started. Select the "Connect" action in the pop-up menu of the database that you want to connect to. Try the action again.

If the action fails again, ensure that your network is operating for the target system and that the database is up and running on that system.

If the network is operational, a system internal error might have occurred. Contact IBM Service.

DBA0005E  An error occurred when validating an attach to an instance.

Explanation:  An invalid connection was detected. The database might have stopped or the connection might no longer exist. The request is terminated.

User response:  Ensure that the server is started. Select the "Connect" action in the pop-up menu of the database that you want to connect to. Try the action again.

If the action fails again, ensure that your network is operating for the target system and that the database is up and running on that system.

If the network is operational, a system internal error might have occurred. Contact IBM Service.

DBA0006E  An error occurred when validating a handle for a persistent database connection or instance attach.

Explanation:  An invalid connection was detected. The database might have stopped or the connection might no longer exist. The request is terminated.

User response:  Ensure that the server is started. Select the "Connect" action in the pop-up menu of the database that you want to connect to. Try the action again.

If the action fails again, ensure your network is operating for the target system and that the database is up and running on that system.

If the network is operational, a system internal error might have occurred. Contact IBM Service.

DBA0007E  An internal error occurred when setting the context type for connections.

Explanation:  An error occurred when setting the context type for connections established by the application. The application is terminated.

User response:  Contact IBM Service.

DBA0008E  An internal error occurred. An unexpected list type was requested.

Explanation:  The type of object to be listed was not recognized as a valid type by the application. The application is terminated.

User response:  Contact IBM Service.
<table>
<thead>
<tr>
<th>DBA0009E</th>
<th>An internal error occurred. An unexpected request type was received.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The type of request to be performed was not recognized as a valid type by the application. The application is terminated.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Contact IBM Service.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBA0010E</th>
<th>An internal error occurred. An unexpected object type was detected.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The type of object to be processed was not recognized as a valid type by the application. The application is terminated.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Contact IBM Service.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBA0011E</th>
<th>There are too many open connections.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The maximum number of open database connections was reached. The request is terminated.</td>
</tr>
</tbody>
</table>
| **User response:** | Either:  
  - Disconnect from other databases and connect to the database you want. Select the “Disconnect” action in the pop-up menu of the databases from which you want to disconnect. Select the “Connect” action in the pop-up menu of the database to which you want to connect.  
  - Update the configuration parameter to increase the number of connections allowed. |

<table>
<thead>
<tr>
<th>DBA0012E</th>
<th>Unable to allocate a connection handle.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>An error occurred when attempting to allocate a connection handle. The application is terminated.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Contact IBM Service.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBA0013W</th>
<th>The maximum number of objects that can be listed was reached.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The maximum number of objects that can be listed by the application was reached. The maximum number is 20,000.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBA0014E</th>
<th>An internal error occurred. An unexpected drop type was requested.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The type of object to be dropped was not recognized as a valid type by the application. The application is terminated.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Contact IBM Service.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBA0015E</th>
<th>An internal error occurred. A latch request failed.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>A latch request failed. The application is terminated.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Contact IBM Service.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBA0016E</th>
<th>An internal error occurred. An unlatch request failed.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>An unlatch request failed. The application is terminated.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Contact IBM Service.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBA0017E</th>
<th>No error information is available. See the administration tools log.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>No error information can be displayed.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>See the administration tools log for error information.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBA0018E</th>
<th>The Administration Server is not started. Start the Administration Server and try the action again.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The Administration Server is not started.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Start the Administration Server using the DB2ADMIN START command on the target system and try the action again.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBA0019E</th>
<th>The object object-name is in use. Try the action again at a later time.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The object on which the action was requested or a related object is already being used in another action. Modifications to the object or a related object might be in progress. The requested action cannot be performed at the same time as the current action.</td>
</tr>
<tr>
<td><strong>Examples:</strong></td>
<td></td>
</tr>
</tbody>
</table>
  - If a table is being altered, a request to rename the same table will not be allowed until the interaction with the Alter window is complete. However, a request to sample the contents of that table is allowed.  
  - A request to drop an object (such as a table) will not be allowed if any other actions are pending on related objects (such as the database, views, or triggers). |
| **User response:** | Try the action again at a later time when the object is available. |
DBA0020E An error occurred opening the administration tools trace file.
Explanation: An error occurred opening the administration tools trace file.
User response: Contact IBM Service.

DBA0021E An error occurred writing to the administration tools trace file.
Explanation: An error occurred writing to the administration tools trace file.
User response: Contact IBM Service.

DBA0022W An error occurred closing the administration tools trace file.
Explanation: An error occurred when attempting to close the administration tools trace file. Processing continues.
User response: Ensure that the administration tools log file was specified correctly.

DBA0023W An error occurred opening the administration tools log file.
Explanation: An error occurred when attempting to open the administration tools log file. Processing continues.
User response: Ensure that the administration tools log file was specified correctly.

DBA0024W An error occurred writing to the administration tools log file.
Explanation: An error occurred when attempting to write to the administration tools log file. Processing continues.
User response: Ensure that the administration tools log file was specified correctly and can be written to.

DBA0025W An error occurred closing the administration tools log file.
Explanation: An error occurred when attempting to close the administration tools log file. Processing continues.
User response: Ensure that the administration tools log file was specified correctly.

DBA0026E An internal administration tools error occurred.
Explanation: An unrecoverable error occurred.
User response: Contact IBM Service.

DBA0027E An internal error occurred. A lock contention in the administration tools was detected.
Explanation: Lock contention in the administration tools was detected.
User response: Contact IBM Service.

DBA0028I The current administration tools session will be terminated due to an unrecoverable error.
Explanation: A severe internal error occurred.
User response: Contact IBM Service.

DBA0029C The application programming interface program did not complete successfully for object name with reason code name. Try again or contact your local support.
Explanation: An application programming interface call did not complete.
User response: Try the operation again or contact your system administrator.

DBA0030E An error occurred while attempting to connect to database name.
Explanation: The requested operation could not complete because it requires a connection to database name. The connection was not successful.
User response: Make sure the database is accessible. Try explicitly connecting to the database using the connect action on the database pop-up menu. A common error on connection is an invalid userid and password. Make sure you have supplied the proper userid and password. Try the operation again or contact your system administrator.

DBA0031E An error occurred while attempting to attach to instance name.
Explanation: The requested operation could not complete because it requires an attachment to the instance name. The attachment was not successful.
User response: Make sure the instance is accessible. Try explicitly connecting to the instance using the connect action on the instance pop-up menu. A common error on connection is an invalid userid and password. Make sure you have supplied the proper userid and password. Try the operation again or contact your system administrator.
DBA0032C  An error occurred while attempting to load DLL name.

Explanation: Either the dynamic link library name was not found or an error occurred while reading the file.

User response: Verify that the DLL is installed and undamaged, and its location is part of the LIBPATH parameter in the CONFIG.SYS file.

DBA0033C  name cannot be dropped because it is currently in use by the administration tools. Close some windows and retry the command.

Explanation: Either the object name you selected to drop, or an item that is owned by the object you selected to drop, is still being used by another administration tool. For example, you might have and ALTER table window open for a database that you are trying to drop. In this case, you cannot drop the database until you close its ALTER table window.

User response: Close all the windows using the object you selected, or close all the windows using items owned by that object, and then retry the command.

DBA0034C  name cannot be removed because it is currently in use by the administration tools. Close some windows and retry the command.

Explanation: Either the object name you selected to remove, or an item that is owned by the object you selected to remove, is still being used by another administration tool. For example, you might have and ALTER table window open for a database that you are trying to remove. In this case, you cannot remove the database until you close its ALTER table window.

User response: Close all the windows using the object you selected, or close all the windows using items owned by that object, and then retry the command.

DBA0035C  The operation operation cannot be performed because the object name is currently in use by the administration tools. Close some windows and retry the command.

Explanation: This operation operation requires name to be in a name state.

User response: Make sure all other pending operations on the selected object are complete, and then retry the command.

DBA0036I  The database configuration was successfully updated. All applications must disconnect from database name before the changes come into effect. If a backup has already been taken it is recommended to take another backup of the database in order to pick up the new configuration values.

Explanation: The database configuration was successfully updated, but the active database configuration cannot be changed until all applications are disconnected from the database. Once all applications are disconnected, the changes will come into effect with the first connection to the database.

User response: Ensure that all applications are disconnected from the database, and then reconnect to the database.

DBA0037I  The instance configuration was successfully updated. The instance name must be stopped before most changes come into effect.

Explanation: The instance configuration was successfully updated.

Changes to the configuration parameter "dftdbpath" take effect immediately.

For the remaining configuration parameters, the changes do not take effect until all applications have disconnected from the database, and the instance is successfully stopped and started again.

User response: To make all changes take effect, ensure that all applications have disconnected from the database, stop the instance, and then start it again.

You can stop the instance by issuing the db2stop command. You can then start the instance by issuing the db2start command.

DBA0039W  There are currently database objects locked or database connections in use. Continue shutdown?

Explanation: The database objects in the Control Center are locked when actions, such as Alter Table, are taken against them. Other actions will maintain connections to the database that are required to complete the task.

User response: If you choose to continue with the shutdown, then all locks and connections are forced and the tools will shut down. It can be dangerous to do so, however, because forcing some actions (like Restore Database) halfway through the task can leave the database in a corrupted state.

It is safest to first go back to the DB2 tools and make sure there are no database operations outstanding.
DBA0040W  Shutting down will stop the Snapshot monitor. Continue shutdown?

Explanation:  Snapshot monitoring has been started on one or more database objects and to continue the monitoring, you must have the DB2 tools running.

User response:  Choose to continue the shutdown only if you no longer require the Snapshot monitor.

DBA0041I  The requested operation could not be performed because the DB2 Administration Tools is an untrusted applet.

Explanation:  Applets loaded over the network are usually considered to be untrusted. Different Web browsers and applet viewers may impose different restrictions on untrusted applets including most local system operations (For example, read files, write files, and print files).

User response:  Consult your system administrator and see if these restrictions can be relaxed or customized.

DBA0042I  Do you want to clear the setting for the userid and password that was used to connect to this database.

Explanation:  If you choose to clear this setting, you will prevent unauthorized access to this database from this workstation. However, you will be prompted to enter the correct userid and password the next time you connect to this database.

User response:  Click on Yes to clear the userid and password setting. Click on No to save the userid and password setting until you exit the Control Center.

DBA0043I  The command has not been executed.

Explanation:  The operation did not occur and has been aborted.

User response:  Resubmit the command.

DBA0044N  The Java Virtual Machine heap size is not large enough to handle your request.

Explanation:  If your request is accessing a large amount of data, this is probably an expected occurrence.

Note that if your request is not accessing a large amount of data, this occurrence may indicate a memory problem.

User response:  Increase the size of the Java Virtual Machine heap and restart the application. To increase the Java Virtual Machine heap size include the -Xmx<size> option when invoking the application, where <size> is the maximum size in bytes. Optionally specify a different unit of measurement by appending the letter k or K to indicate kilobytes, or m or M to indicate megabytes.

For example, to start the Control Center with a Java Virtual Machine heap size of 128 megabytes, enter: db2cc -Xmx128m.

DBA0045N  At least one required field in the Register XSR dialog is incomplete.

Explanation:  All required fields must be filled in before the XSR object registration process can be completed by the Register XSR dialog.

User response:  Verify that all required fields have been completed in the Register XSR dialog and try again.

DBA0046N  A file required for XSR object registration cannot be found.

Explanation:  When you add XSR objects through the Register XSR dialog, the files you reference must be available during the registration process. At least one file cannot be found.

User response:  Verify that all files you reference during the XSR object registration process are available and try again.

DBA0047N  The requested native XML data store functionality is not available on this database.

Explanation:  This message is expected behavior when you attempt to use the XML functionality supported by a native XML data store administration tool against a database which does not support native XML data store. Note that XML Extender is not part of the native XML data store.

User response:  If the DB2 instance does not support native XML data store functionality, no user response is necessary. You cannot use the XML functionality supported by your native XML data store administration tool against this database.

For further information on how to use the supported native XML data store functionality, visit the DB2 Information Center at http://publib.boulder.ibm.com/infocenter/db2luw/v9index.jsp and search for "native XML data store" and "overview".

DBA0048N  Automatic storage cannot be added to this database.

Explanation:  An attempt has been made to access the 'Add Automatic Storage' window for a non-automatic storage database.

User response:  To add storage for a non-automatic
storage database, select a table space listed in the Table Spaces folder. Right click on the table space name and select "Alter...". The Alter Table Space notebook opens. Select the Containers tab to add storage for your database.

**DBA0049N** Registration with the XML schema repository (XSR) failed because there was an error reading or processing the selected file.

**Explanation:** The Register XSR notebook only supports certain file extensions when you are adding objects to the XSR. If you are using a supported extension, then the error occurred during the processing of the file.

**User response:** The supported extensions are .dtd (XML DTDs), .mod (XML DTD Modules), .ent (External Entities), and .xsd (XML Schemas). If you are using a supported extension, try validating the file contents using an XML editor. If there are no errors, try the registering the object again. If registration still fails, contact IBM Service for additional help.

**DBA0099N** The Java Virtual Machine heap size is not large enough to service your request.

**Explanation:** If your request is accessing a large amount of data, this is probably a normal response. However, if your request is not accessing a large amount of data, this may indicate a memory problem.

**User response:** Modify the maximum size of the Java Virtual Machine heap with the `-Xmx<size>` option when invoking the program. Specify the maximum size, in bytes. Append the letter k or K to indicate kilobytes, or m or M to indicate megabytes.

For example, `db2cc -Xmx128m`

If the problem persists, contact IBM Service.

**DBA0100I** Control Center is updating node directory information for instance - instance. Incorrect information is being corrected. The current request cannot be performed.

**Explanation:** The Control Center detected that the nodetype changed at the instance and is recataloging the instance based on the new information. Depending on the nodetype value for the instance, actions from the Control Center may be different.

**User response:** If available, try the request again.

**DBA0101W** Entries specified in the exception list will not be used. Do you want to continue?

**Explanation:** The Nodes Contain Exceptions check box is deselected, but exception containers are specified in the List Exception dialog.

**User response:** Click on Yes to clear the exception containers list, or click on No or Cancel to reselect the Nodes Contain Exceptions check box.


**Explanation:** Nodetype is a database manager configuration parameter that identifies whether the instance consists of a single or multiple database partition servers.

Discovery tries to resolve the nodetype value for you. This distinction between instances is required because actions in the Control Center can be different between single and multiple database partition servers environments.

If the reason code is -1, discovery could not map the catalogued instance to a valid DB2 instance.

All other reason codes map to a valid SQL message. Check the help for the corresponding SQL message.

**User response:** Discovery has the following requirements:

1. DB2 Administration Server must be set up and running at the remote instance you want to catalog or access.
2. Ensure the instance is listed in the registry. Issue `db2set -l` from the host you are cataloging.
3. The following global DB2 Registry values must be set:
   - `DB2SYSTEM`
   - `DB2ADMINSERVER`
4. The following instance DB2 Registry values must be set:
   - `DB2COMM`
5. The following administration server configuration parameters must be set:
   - `DISCOVER = KNOWN` and `DISCOVER_COMM = null`
   - `DISCOVER = SEARCH` and `DISCOVER_COMM = protocol` (for example, `TCPIP`)

Verify the setting of these registry values by entering `db2set -all`. 
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Explanation</th>
<th>User response</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBA0103W</td>
<td>Changes made to the configuration parameter values will not be used. Do you want to continue?</td>
<td>Another database partition was selected, but the changes to the configuration parameters apply to the previously selected database partition.</td>
<td>Click on Yes to obtain the configuration parameter values for the next database partition and discard the changes that were specified for the previously selected database partition.</td>
</tr>
<tr>
<td>DBA0113E</td>
<td>Exception containers are specified, but not all nodes in the database partition group are included. No containers are specified for the following nodes: node-list.</td>
<td>The specified exception containers have no common container. Because no common container is specified, the exception container must be defined at every node in the database partition group.</td>
<td>Click on OK to add containers to the specified nodes.</td>
</tr>
<tr>
<td>DBA0114W</td>
<td>Control Center detected incorrect node directory information for instance - instance. Incorrect information is being corrected. Please exit and restart the Control Center. The current request cannot be performed.</td>
<td>The Control Center detected that the nodetype changed at the instance.</td>
<td>Exit the Control Center and restart it.</td>
</tr>
<tr>
<td>DBA0115I</td>
<td>Node directory information has been corrected for this instance. Instance instance should be refreshed.</td>
<td>Because the cataloged information for the instance is updated, the displayed objects and actions may not be correct.</td>
<td>Select the “Refresh” action from the instance pop-up menu to update the Control Center, then try the request again.</td>
</tr>
<tr>
<td>DBA0116I</td>
<td>The operation cannot be performed by the JDBC server at this time. Retry this operation later.</td>
<td>The JDBC server is currently busy with an existing operation and cannot perform the user operation.</td>
<td>Wait until the JDBC server completes the existing operation and retry the operation.</td>
</tr>
<tr>
<td>DBA0117W</td>
<td>Database partition information could not be retrieved. Reason code = reason-code, object = object.</td>
<td>Function which relies on successful retrieval of database partition information will be disabled or removed. This may include menu items as well as actual dialog function.</td>
<td>Make sure that the DAS is started at the server where the object exists. If the DAS is started, then treat the return code as a DAS error and continue troubleshooting.</td>
</tr>
<tr>
<td>DBA0200E</td>
<td>An attempt to open or read from file filename failed. Error code = error-code.</td>
<td>An attempt was made to either open or read from a file using the Database Administration Server (DAS). The attempt failed.</td>
<td>Verify that the DAS is running, and that the file exists and has read permission for the userid associated with the DAS. If the problem persists, contact your IBM service representative with the corresponding file name and error code.</td>
</tr>
<tr>
<td>DBA0201E</td>
<td>An attempt to open or write to file filename failed. Error code = error-code.</td>
<td>An attempt was made to either open or write to a file using the Database Administration Server (DAS). The attempt failed.</td>
<td>Verify that the DAS is running, and that the file system is not full and has write permission for the userid associated with the DAS. If the problem persists, contact your IBM service representative with the corresponding file name and error code.</td>
</tr>
<tr>
<td>DBA0202E</td>
<td>An attempt to open or read from file filename failed. Error code = error-code.</td>
<td>An attempt was made to either open or read from a file. The attempt failed.</td>
<td>Verify that the file exists and has appropriate read permission.</td>
</tr>
<tr>
<td>DBA0203N</td>
<td>An attempt to open or write to file filename failed. Error code = error-code.</td>
<td>An attempt was made to either open or write to a file. The attempt failed.</td>
<td>Verify that the file system is not full.</td>
</tr>
</tbody>
</table>
and that it has appropriate write permission.

If the problem persists, contact your IBM service representative with the corresponding file name and error code.
Chapter 71. DBA0500 - DBA0999

**DBA0900N** The path path-name already exists.

**Explanation:** The path path-name was specified in the context of a non-existing path, but this path already exists.

**User response:** Specify a path that does not exist.

**DBA0901N** The path path-name does not exist.

**Explanation:** The path path-name was specified in the context of an existing path, but this path does not exist or it is not accessible.

**User response:** Specify an existing path which is accessible.

**DBA0902E** The file or directory specified by path path-name is read-only.

**Explanation:** An attempt was made to modify the file or directory specified by path path-name, which is currently read-only.

**User response:** Specify a file or directory which is not read-only.

**DBA0903E** The file or directory specified by path path-name is currently in use by another application.

**Explanation:** An attempt was made to modify or delete the file or directory specified by path path-name, which is currently in use by another application.

**User response:** Close all applications accessing the file or directory and retry the operation.

**DBA0904E** The file or directory specified by path path-name is not accessible.

**Explanation:** The file or directory specified by path path-name is not accessible to the current user.

**User response:** Verify the permissions set on the file or directory allow access to the current user and retry the operation.

**DBA0905E** The path or device name is not available.

**Explanation:** The path or device name is not available at this time.

**User response:** Verify the path or device is still available and retry the operation.

**DBA0906E** The directory directory-name is not empty.

**Explanation:** The directory directory-name was specified in the context of an empty directory, but this directory is not empty.

**User response:** Verify the directory is empty and retry the operation.

**DBA0907E** The path path-name does not refer to a directory.

**Explanation:** The path path-name was specified in the context of a directory, but this path does not refer to a directory.

**User response:** Verify the path specifies a valid directory and retry the operation.

**DBA0908E** The path path-name is not valid.

**Explanation:** The path path-name does not refer to a valid path.

**User response:** Specify a valid path and retry the operation.

**DBA0909E** The path path-name is too long.

**Explanation:** The length of the path path-name exceeds the maximum value permitted by the operating system.

**User response:** Specify a path whose length is within the maximum value allowed by the operating system and retry the operation.

**DBA0910E** There is no more space available on the file-system.

**Explanation:** There is no more space available on the file-system to permit the operation to complete successfully.

**User response:** Make sure there is enough space on the file-system to complete the operation and then retry the operation.

**DBA0911E** The maximum number of files that can be open has been reached.

**Explanation:** The maximum number of files that is permitted to be open by the operating system has been reached.

**User response:** Close one or more open files and retry the operation.

**DBA0912E** The end of the file file-name has been reached.
**DBA0913E**

**Explanation:** An attempt was made to read or seek beyond the end of the file `file-name`.

**User response:** Verify the operation is not attempting to read or seek beyond the end of the file and retry the operation.

---

**DBA0913E** A physical I/O error occurred.

**Explanation:** An undetermined physical I/O error while accessing the file-system.

**User response:** Retry the operation. If the problem persists, contact IBM Service.
Chapter 72. DBA1000 - DBA1499

DBA1005W This action will force both Local Databases and Gateway applications. Do you want to continue?

Explanation: You requested to force all applications on the instance.

User response: Click Yes to process the request or No to cancel it.

DBA1006E An invalid plugin extension has been detected by the Control Center.

Explanation: The file "db2plug.zip" has been corrupted or not properly setup.

User response: The "db2plug.zip" file should be included in the tools directory under the sqlib directory.

Refer to the documentation for instructions on defining the "db2plug.zip" file and recreate the "db2plug.zip" file.

If the problem persists, contact the system administrator for assistance or use the Control Center trace command to determine if the plugin classes are being loaded. The command "db2cc -tf <filename>" will place the Control Center trace information in the specified file. When specifying a filename, you must provide the absolute path to the file. To determine if the plugin classes are being loaded, search through the file for lines containing the text "PluginLoader".

DBA1101I Stripe set information about the table space container could not be obtained. Stripe sets will not be shown.

Explanation: The connected user might not have sufficient authority to obtain stripe set information.

User response: SYSADM authority is required to obtain stripe set information.

DBA1102E An error occurred when the Configuration Advisor tried to save the suggested values in a system file.

Explanation: Either the Configuration Advisor could not create a CFG subdirectory under your instance directory or it could not save a system file containing recommendations into the CFG subdirectory of your instance directory.

User response: Make sure the disk containing the instance directory is not full and you have write access to this disk. Afterwards, click on Done to try again.

DBA1103W The Configuration Advisor was unable to assign a minimum amount of memory to the buffer pools due to other memory requirements determined from your responses.

Explanation: The Configuration Advisor is unable to provide a set of recommendations based on the specified database requirement with the specified memory resource.

User response: Increase the percentage of physical memory allocated, if more memory resource is available. Otherwise, increase the amount of physical memory on the server.
The instance and database configuration parameters were successfully updated. The instance **name** must be stopped before most changes come into effect. You may want to rebind your packages after the new configuration parameters take effect so that the new values will be used during the bind.

**Explanation:** The Configuration Advisor has updated the database manager configuration parameters, database configuration parameters, and buffer pool sizes in the SYSBUFFERPOOLS catalog. The changes will not take effect until the instance is stopped on the server.

Packages were bound with the old configuration parameters. They need to be rebound, after the new parameters take effect, to exploit these new parameters.

**User response:** When you are ready to use the new configuration parameters, stop the instance, and then start the instance.

Rebind your packages if necessary.

---

An error occurred when the Configuration Advisor tried to get system information from your server.

**Explanation:** An unexpected error occurred. The Configuration Advisor cannot continue.

**User response:** Contact your system administrator.

---

The Configuration Advisor was unable to increase the sizes of the buffer pools due to other memory requirements determined from your responses. The buffer pool sizes are left unchanged. The use of the suggested set of configuration values may cause paging on the server.

**Explanation:** This is a warning that there may not be enough memory dedicated to your server to run the workload that you specified.

**User response:** Review your selections on previous pages of the Configuration Advisor to check that the workload description is appropriate or add more memory to your server.

---

The transactions rate you entered is more than ten times the average number of connected applications. If you are using a transaction manager, ignore this message. If not, consider changing the rate.

**Explanation:** The Configuration Advisor verifies that the transactions rate is reasonable. The transaction rate may be too high if you are not using a transaction manager.

**User response:** If you are using a transaction manager, ignore this message. Otherwise, use a lower number of transactions per minute, or increase the average number of connected applications.

---

The system database directory has no entries.

**Explanation:** There are currently no entries found in this database directory.

**User response:** No action is required.

---

The database alias **name** already exists for another database.

**Explanation:** You requested that a backup be recovered into a new database, but the database name you specified is already used as an alias for an existing database.

When a database is created, the database is cataloged in the system database directory using the database name as the alias, and this alias must be unique.

**User response:** Specify a database name that is not being used as an alias, or request that the backup be recovered into the existing database.

---

The database alias **name** was not found in the system database directory.

**Explanation:** You requested that a backup be recovered into an existing database, but a database no longer exists with this alias.

**User response:** Select an existing database, or request that the backup be recovered into a new database.

---

Restart failed because indoubt transactions exist against the database and the connection to the database was dropped.

**Explanation:** The restart operation encountered indoubt transactions. This left the database in an inconsistent state. The DBA Utility dropped the connection to the database.

**User response:** Resolve the indoubt transactions. If they are not resolved, applications must restart the database whenever it is required.

If you are in an XA/DTP environment, and the transaction manager that was using the database is available, instruct it to resolve the indoubt transactions. Otherwise, use the Command Line Processor to manually complete each indoubt transaction.
**DBA1114E**  Database name is in backup pending state. A full backup must be done before the database can be used.

**Explanation:** This state will prevent the database from being updated. The database must be backed up before any updates can happen.

**User response:** Back up the database.

**DBA1115E**  Enter a value for name.

**Explanation:** A value is required.

**User response:** Provide the value and retry the request.

**DBA1116E**  The value for parameter must be between minimum and maximum.

**Explanation:** The value must be within the specified range.

**User response:** Enter a value in the specified range and retry the request.

**DBA1117E**  The value for name is not valid.

**Explanation:** The value entered is not valid.

**User response:** Correct the value and retry the request.

**DBA1118E**  The value for name must not exceed maximum.

**Explanation:** The value entered is not valid.

**User response:** Correct the value and retry the request.

**DBA1119E**  The value for name must not be smaller than minimum.

**Explanation:** The value entered is not valid.

**User response:** Correct the value and retry the request.

**DBA1121I**  A job was created for the request description on system system. Its job number is number. To view the status and output of the job, use the Jobs page on the Journal.

**Explanation:** The job was successfully started.

**User response:** To view the status and output of the job, use the Jobs page on the Journal.

**DBA1122I**  The job has completed for the request description on system system. For the status and output of the job, view job number in the Jobs page on the Journal.

**Explanation:** The job has completed.

**User response:** To view the status and output of the job, use the Jobs page on the Journal.

**DBA1123I**  Job description is terminated.

**Explanation:** The job was canceled in response to a user request.

**User response:** No action is required.

**DBA1126I**  The database has no table spaces.

**Explanation:** The database has no table spaces.

**User response:** No action is required.

**DBA1127I**  The table space has no containers.

**Explanation:** The table space has no containers.

**User response:** No action is required.

**DBA1128E**  No containers have been specified. Select "Add" in order to create containers.

**Explanation:** The current list does not contain any new containers.

**User response:** Select "Add" and fill in the necessary fields to add a container to the list.

**DBA1129E**  Provide a value for name.

**Explanation:** The operation you requested can be performed only if you enter a value for name.

**User response:** Enter a value, and then click on OK.

**DBA1130E**  The name entries must not exceed maximum characters.

**Explanation:** You entered a value that exceeded the maximum number of characters.

**User response:** Enter a valid value, and then click on OK.

**DBA1131E**  device is not a valid tape device.

**Explanation:** The operating system did not accept the specified tape device. Local tape devices are of the form "\TAPEn", where n represents the drive number (0 is the first).

**User response:** Enter a valid name for the tape device, and then click on OK.
DBA1132E Tape device *device* does not support a tape mark blocksize of *blocksize*.

**Explanation:** The Control center uses a tape mark blocksize that is not supported by the specified tape device.

**User response:** Use the Command Line Processor to submit the request. Specify a supported blocksize in the DB2 INITIALIZE TAPE command.

---

DBA1133E An error occurred operating tape device *device*.

**Explanation:** An unexpected error occurred while operating the specified tape device.

**User response:** Resubmit the request. If the problem persists, contact your system administrator.

---

DBA1134I A job was created for the request description. However, no job-related entries can be created in the Journal because the database administrative server (DAS) instance could not be accessed.

**Explanation:** The job started successfully, but the status and output of the job will not be logged in the Journal. This can happen if the DAS instance is not started.

**User response:** To have the status and output of the job logged in the Journal, start the DAS instance first before starting a backup operation.

---

DBA1135I The job has completed for the request description.

**Explanation:** The job has completed.

**User response:** No action is required.

---

DBA1136E A backup at the table space level cannot be performed because the database *db* is not enabled for rollforward recovery.

**Explanation:** You can only back up a database at the table space level if you have first enabled that database for rollforward recovery.

**User response:** To enable the database for rollforward recovery, you can either:

- Use the Database Logging Wizard to change your logging type to ARCHIVE logging.
- Set either the `logarchmeth1` or `logarchmeth2` database configuration parameter to a value other than OFF, disconnect all existing applications from the database, and perform an offline backup of the database.

---

DBA1137E The value for *name* must not be smaller than *minimum* units.

**Explanation:** The value entered is smaller than the minimum *minimum* units.

**User response:** Enter a valid value and retry the request.

---

DBA1138E The value for *name* must not exceed *maximum* units.

**Explanation:** The value entered exceeded the maximum of *maximum* units.

**User response:** Enter a valid value and retry the request.

---

DBA1139E You must allocate at least *pages* for the system catalog.

**Explanation:** There cannot be more than *pages* in each table space container. Each page of data requires 4 KB. So 1 MB of storage is equal to 256 of these 4 KB pages.

**User response:** Enter a valid value and retry the request.

---

DBA1140E You cannot allocate more than *pages* in a single container.

**Explanation:** Each page of data requires 4 KB. So 1 MB of storage is equal to 256 of these 4 KB pages.

**User response:** Enter a valid value and retry the request.

---

DBA1141E You must allocate at least *pages* *pages* in each container.

**Explanation:** The minimum number of pages in a table space container is related to the extent size of the table space. It is 5 times the extent size plus one page. So for a table space with an extent size of 32 pages (the default value), the minimum size of a single container is 161 pages.

**User response:** Enter a valid value and retry the request.

---

DBA1142W The LOGARCHIVE database configuration parameter has currently been set to ON for database *name*. As soon as all applications have disconnected from the database, the database will be in backup pending state. This state prevents the database from being updated. The database must be backed up before any additional updates can occur.

**Explanation:** Before the database manager can start logging each transaction in your database, it must have
a full offline database backup to use as a starting point.

User response: Make a full offline database backup as soon as possible. If this is not possible, set the LOGARCHIVE parameter to OFF.

DBA1143E You cannot perform an offline backup right now because at least one application is still connected to the database. You can either try again later, or disconnect all applications connected to the database immediately by selecting force from the instance object's pop-up menu.

Explanation: An offline backup cannot be performed until all applications connected to the selected database have stopped. You can either wait for the applications to disconnect themselves, or you can force the connected applications right now.

User response: Either try the action later, or, to force all applications connected to the selected database immediately, select "Force" from the instance object's pop-up menu.

DBA1144E The container container-name already exists.

Explanation: Each table space container must be unique.

User response: Specify a file name or directory that does not currently exists on the system.

DBA1145E The container container-name has been specified more than once.

Explanation: Each table space container must be unique.

User response: Specify a file name or directory that is not currently in your list of new containers.

DBA1146E The container container-name is included in both the user and temporary storage spaces.

Explanation: Each table space container must be unique.

User response: Change the file name or directory of the container in either the user or temporary table space.

DBA1147E The container container-name is included in both the catalog and temporary storage spaces.

Explanation: Each table space container must be unique.

User response: Change the file name or directory of the container in either the user or catalog table space.

DBA1148E The container container-name is included in both user and catalog storage spaces.

Explanation: Each table space container must be unique.

User response: Change the file name or directory of the container in either the user or catalog table space.

DBA1149E param-1 does not have enough free space for the containers you specified.

Explanation: When a DMS container is created it consumes the full amount of space you allocated to it.

User response: Change the location of the container to an area that has more storage, or increase the available storage in the current location of the container.

DBA1150E A column with the same name already exists.

Explanation: The column was not added because a column with the same name is already specified or exists in the table being created or altered.

User response: Specify a different column name.

DBA1151W The requested operation was not performed against the column or constraint. Reason code = reason-code.

Explanation: An attempt was made to add, alter, or remove a column or constraint during table creation or alteration. The reason code given indicates the actual rule violation, as follows:

1 A column or constraint with the same name already exists.

2 The column participates in the primary or distribution key and cannot be removed.

3 The column participates in a unique key and cannot be removed.

4 The column participates in a foreign key and cannot be removed.

5 The column participates in a table dimension and cannot be removed.

6
The column may participate in a table check constraint. The operation was allowed.

Primary and unique keys cannot be defined as a subset of all dimension columns.

Dimensions cannot be defined such that any primary or unique key becomes a subset of all dimension columns.

Primary and unique keys must be defined as supersets of the distribution key.

The distribution key must be defined as a subset of all existing primary and unique keys.

An object with that column set already exists.

The column participates as a partitioning column and cannot be removed.

The column participates as a partitioning column and its data type cannot be changed.

Columns of XML data type are not supported in partitioned tables.

User response: Correct the condition that is causing the operation to fail and retry the operation.

DBA1152E A constraint with the same name already exists.

Explanation: The constraint was not added because a constraint with the same name is already specified or exists in the table being created or altered.

User response: Specify a different constraint name.

DBA1153E The object is already in the list.

Explanation: The specified object already exists in the list. The action is not performed.

User response: Specify another object or close the window.

DBA1154E The specified system, instance, and database do not identify a recognized database.

Explanation: The system, instance, and database specifications do not identify a database that is known to the application. The action is not performed.

User response: Either ensure that the system, instance, and database names are correct; or add the system, instance, and database that you want to access to the application.

DBA1155E The object object-name no longer exists in the database. The request cannot be performed.

Explanation: The specified object no longer exists in the database and cannot be operated on. The request is terminated.

User response: Select the "Refresh" action in the pop-up menu of the object folder to get an updated list of objects.

DBA1156W The request completed with warnings. See the administration tools log for details.

Explanation: The requested action completed, but one or more warning messages were issued.

User response: See the administration tools log for more information.

DBA1157E No authorities or privileges were granted or revoked on object-name for user-name. See the administration tools log for details.

Explanation: The requested action completed. No action was taken against the authorities or privileges on the specified object for the specified user or group.

User response: None

DBA1158I Number of records read during the load = count. Number of records skipped before the load begins = count. Number of rows loaded into the target table = count. Number of records that could not be loaded = count. Number of duplicate rows deleted = count. Number of records loaded successfully and committed to the database = count.

Explanation: The action completed with the specified results.

User response: None

DBA1159I Export completed. item-description = count.

Explanation: The export action completed successfully with the specified results.

User response: None
DBA1160I  Import completed. Number of records read during the import = count. Number of records skipped before the import begins = count. Number of rows imported into the target table = count. Number of records that could not be imported = count. Number of duplicate rows deleted = count. Number of records imported successfully and committed to the database = count.

Explanation: The import action completed successfully with the specified results.
User response: None

DBA1161I  item-description = count.

Explanation: The import or export completed with the specified results.
User response: None

DBA1162I  Load completed. Number of records read during the load = count. Number of records skipped before the load begins = count. Number of rows loaded into the target table = count. Number of records that could not be loaded = count. Number of duplicate rows deleted = count. Number of records loaded successfully and committed to the database = count.

Explanation: The load action completed successfully with the specified results.
User response: None

DBA1163E  The table was not copied. See the administration tools log for details.

Explanation: One or more warnings or errors occurred when copying the table. The table was not copied.
User response: See the administration tools log for more information.

DBA1164E  The specified target table already exists. The source table was not copied.

Explanation: The copy table action failed because the target table exists.
User response: Either specify a new target table or delete the existing target table and try the action again.

DBA1165E  No privileges were granted or revoked for user-name.

Explanation: Privileges were not granted to or revoked from the specified user or group since no privileges have been changed.

User response: Resubmit the command after making changes to the current privileges.

DBA1166E  The identifier identifier-name contains unbalanced quotes. Correct the identifier and try the action again.

Explanation: The specified identifier contains unbalanced single or double quotes. The naming rules require balanced quotes. The action is not performed.
User response: Correct the identifier and try the action again.

DBA1167E  The identifier identifier-name contains embedded blanks. Correct the identifier and try the action again.

Explanation: The specified identifier contains blank characters, which violates the naming rules for ordinary identifiers. The action is not performed.
User response: Remove the blanks or delimit the identifier with double quotes and try the action again.

DBA1168E  The first character in the identifier identifier-name is not valid. Correct the identifier and try the action again.

Explanation: The first character of the specified identifier is invalid. It must follow the naming rules for ordinary identifiers. The action is not performed.
User response: Replace the first character with a valid one or delimit the identifier with double quotes then try the action again.

DBA1169I  The command script that can update the instance and database configuration parameters was created successfully. Use the Script Center to run or schedule the script.

Explanation: A new script was saved successfully in the Script Center. You may open the Script Center to view, run or schedule the new command script.

After the script is run, the changes will not take effect until the instance is stopped on the server.

Packages were bound with the old configuration parameters. They need to be rebound, after the new parameters take effect, to exploit these new parameters.

User response: To view, run or schedule the newly saved script, open the Script Center by selecting the Script Center icon from the icon bar.

After you have run the script and when you are ready to use the new configuration parameters, stop the instance, and then start the instance.

Rebind your packages if necessary.
The page size of the table space and the page size of the buffer pool must be equal.

**Explanation:** You must choose an existing buffer pool whose page size matches that of the table space you wish to create. The default buffer pool has the default page size of 4K. If any other page size is desired for the table space, a buffer pool with a matching page size must exist.

**User response:** From the Advanced Table Space window, change the page size of the table space to match that of the buffer pool or change the buffer pool to one whose page size matches that of the table space. If there are no buffer pools of the desired page size, you can create one from the Create Buffer Pool window.

The temporary table space specified cannot be used for this utility operation.

**Explanation:** The backup and restore commands cannot be performed on a temporary table space.

**User response:** Resubmit the command using only valid non-temporary table spaces.

Since the database is in backup pending state, you must perform an offline database backup. This has been preselected for you. Other options that are no longer available having been disabled.

**Explanation:** The only valid operation for a database in Backup Pending state is to perform an offline database backup. The wizard has ensured that these options are selected. It has also disabled the other options in the wizard that are no longer available.

**User response:** Complete the wizard, and run the command. It is recommended that you perform a full database backup.

A restore at the table space level cannot be performed because the database is not enabled for rollforward recovery.

**Explanation:** You can only restore a database at the table space level if you have enabled the database for rollforward recovery.

**User response:** To enable the database for rollforward recovery, set either the logarchmeth1 or logarchmeth2 database configuration parameter to a value other than OFF, disconnect all existing applications from the database, and perform an offline backup of the database.

You have chosen more than one image for the same database partition. In most cases, you will not wish to do this.

**Explanation:** In most scenarios, choosing more than one backup image to restore is not useful, and will actually slow down the total time to complete the restore.

**User response:** Ensure that only one image for each database partition is selected.

This functionality requires an image for each database partition.

**Explanation:** Rolling forward to a point in time requires an image for each database partition. You have not chosen all database partitions on the Available Images page, and so cannot use this option.

**User response:** Return to the Available Images page and select one image for each database partition in your database.

The Control Center failed to automatically catalog the Tools Catalog Database database-name for system system-name.

**Explanation:** Possible explanations are:
- The database is specified incorrectly at the DB2 Administration Server for system system-name.
- The database manager that contains the database is not configured for TCP/IP communication.

**User response:** Possible solutions include:
- Verify that the DB2 Administration Server configuration parameters are correctly specified.
- Verify that the database manager is configured for TCP/IP communications.

If the problem persists, contact IBM Support.

A database connection to the Tools Catalog Database database-name cannot be made. SQLCODE sqlcode

**Explanation:** A connection to the Tools Catalog Database database-name as defined in the DB2 Administration Server configuration parameters cannot be made.

This message will appear under one of the following conditions:
1. The Tools Catalog Database has not been created.
2. The Tools Catalog Database has been created but the DB2 Administration Server configuration parameters have not been updated.
3. The Tools Catalog Database is configured properly but the connection failed.
User response: Suggestions corresponding to the three conditions are:

1. Create a Tools Catalog Database by issuing the `CREATE TOOLS CATALOG` command from the CLP.
2. Update the DB2 Administration Server configuration parameters to define the Tools Catalog Database. Four parameters need to be updated with the `UPDATE ADMIN CONFIGURATION` command:
   - SCHED_ENABLE
   - TOOLSCAT_INST
   - TOOLSCAT_DB
   - TOOLSCAT_SCHEMA
3. Refer to the user response for the SQLCODE returned from the connect operation.

---

**DBA178W** Task `task-name` was created with a more recent version of the Control Center.

**Explanation:** The selected task was created with a more recent version of the Control Center. Some functionality for the task are not supported by the Control Center on the local machine.

**User response:** You can choose to proceed and edit the task. When saving the task, you can:
- Save the changes to the existing task. This will cause the loss of functionality that was specific to the more recent version of the Control Center.
- Save changes by creating a new task. This will not alter the original task.

---

**DBA1178W** Task `task-name` was created with a more recent version of the Control Center.

**Explanation:** In an offline backup, the catalog partition cannot be backed up at the same time as other database partitions. If you continue, the backup will fail.

**User response:** Ensure that the catalog partition has not been grouped with other database partitions on the "Partitions" page of this wizard.

---

**DBA1181W** The catalog partition cannot be backed up at the same time as other database partitions in an offline backup.

**Explanation:** In an offline backup, the catalog partition cannot be backed up at the same time as other database partitions. If you continue, the backup will fail.

**User response:** Ensure that the catalog partition has not been grouped with other database partitions on the "Partitions" page of this wizard.

---

**DBA1183N** Unable to edit task `task-name`

**Explanation:** The selected task was created with a more recent version of the Control Center. There is no editor associated with this type of task in this version of the Control Center.

**User response:** Use a newer version of the Control Center to edit this task.

---

**DBA1184W** The database will immediately be taken offline and a full database backup will be performed.

**Explanation:** As part of the execution of this wizard an offline full database backup will now be performed. This operation will remove all current users from the system and make the database unavailable for the duration of the backup. This operation may run for an extended period.

**User response:** Click OK to continue or Cancel to return back to the wizard.

---

**DBA1185W** Automatic maintenance is enabled for this database.

**Explanation:** This database has been configured for automatic maintenance, and is performing automatic database backups. Instead of performing a manual database backup through the Backup wizard, you may want to modify your automatic backup settings. This is performed using the Configure Automatic Maintenance wizard.

**User response:** Launch the Configure Automatic Maintenance wizard to configure your automatic database backup settings or continue to manually backup using the Backup wizard.

---

**DBA1186W** The operation has completed successfully, except for the required database backup. Your database is currently in Backup Pending state.

**Explanation:** The only valid operation for a database in Backup Pending state is to perform an offline database backup. You can perform an offline backup in the Backup wizard.
User response: Launch the Backup wizard or press Cancel to return.

DBA1187N The days of the month entered are invalid.

Explanation: As part of the specification for the maintenance window you have selected to have it apply only on specific days of the month. The days and day ranges entered contain invalid characters, and/or invalid ranges of days.

User response: Enter a valid list of days and day ranges and press OK.

DBA1188E The maintenance settings could not be updated or retrieved.

Explanation: The automatic maintenance settings are stored in tables in the database. Either the tables could not be accessed or the settings stored within the table contain invalid data.

User response: If the problem persists, contact IBM Support.

DBA1189I There are unrecognized settings in the automatic maintenance settings configuration for this database.

Explanation: The unrecognized settings are ignored.

User response: No action required.

DBA1350I The Design Advisor was not able to recommend any indexes. Set a longer time limit on the Calculate page and try calculating recommended objects again.

Explanation: The Design Advisor was not able to recommend any objects because the maximum search time was too short.

User response:
1. On the Calculate page in the Design Advisor, set a longer time limit or no limit at all.
2. Try running the Design Advisor again.

DBA1351I The Design Advisor was not able to recommend any objects that will improve the performance of your workload.

User response: If the problem persists, contact IBM Support.

DBA1352E You specified only one SQL statement in your workload. Your database might have additional activity. Do not drop any objects unless you are sure they are not needed for other reasons.

Explanation: Since you only specified one SQL statement in your workload, it is unlikely that it represents all of the activity against your database.

User response: Do not drop any objects unless you are sure they are not needed for other reasons.

DBA1353E The Recommendation Advisor encountered a non-severe error while attempting to retrieve recommendations for alert.

Explanation: An error occurred while the Recommendation advisor was retrieving information to resolve the current Health Indicator alert.

User response: If the problem persists, contact IBM Support.
DBA1357E  An error occurred while attempting to launch the GUI-tool.

**Explanation:** An unexpected error occurred while attempting to launch the specified tool.

**User response:** Attempt the launch the tool using an alternate method. If the problem persists, contact IBM Support.

DBA1358E  The Design Advisor encountered an unexpected error. Return code = `return-code`.

**User response:** If the problem persists, contact IBM Support.
Chapter 73. DBA1500 - DBA1999

DBA1500E  The local system object is not allowed to be removed.

Explanation:  The local system object appears in the tree if this is a server installation, and does not appear if this is a client installation. You have no direct control over the removal of this object because it has special properties that are required by the server installation type.

User response:  No action is required.

DBA1501E  The local system object is not allowed to be changed.

Explanation:  The local system object appears in the tree if this is a server installation, and does not appear if this is a client installation. You have no direct control over the changing of this object because it has special properties that are required by the server installation type.

User response:  No action is required.

DBA1502E  The unknown system object is not allowed to be removed.

Explanation:  The unknown system object appears in the tree only if orphaned instances that are not recognized as belonging to any existing system are found. You have no direct control over the removal of this object because it is shown automatically only when needed.

User response:  No action is required. However, if you want to remove the need to show this object in the tree, then do the following steps:

- Expand the unknown system object to show all orphaned instances.
- If necessary, add new system objects to the control center to contain the orphaned instances.
- If necessary, use the change action to alter the system name on any remaining orphaned instances.
- If the unknown instance object also appears, then you also have orphaned databases that are not recognized as belonging to any existing instance. Remove the need to show these objects by doing steps similar to these, adding instances or altering databases until no orphans are left to be shown.

DBA1503E  The unknown system object is not allowed to be changed.

Explanation:  The unknown system object appears in the tree only if orphaned instances that are not recognized as belonging to any existing system are found. You have no direct control over the changing of this object because it is shown automatically only when needed and has only special properties that cannot be changed.

User response:  No action is required.

DBA1510E  Specify a system name.

Explanation:  You must specify a system name before you can add this new system object.

User response:  Specify a system name in the appropriate entry field, and then try the action again.

DBA1511E  The specified system name is already in use. You must specify a system name that is unique.

Explanation:  You specified a system name that matches the name used for another system object in the tree. System names must be unique within the control center, and are case-sensitive. You cannot use the names ‘Local’ or ‘Unknown’ because these are system names reserved for use by the local and unknown system objects. To avoid confusion, you should also try not to use the names of existing instances or databases as system names, although the tool does not prevent you from doing this.

User response:  Specify a unique system name, and then try the action again.

DBA1520W  The operating system type for this system object has been detected to be newos, but the local information shows it to be oldos. Do you want to update the local information now to reflect the correct operating system type?

Explanation:  When you add a new system object, you specify an operating system type, which is stored locally for that remote system. Later, when actual connections are made to the remote system, the true operating system type is reported back. It is possible for the original operating system type information to have been set incorrectly so that it does not match the true settings on the remote system. In this case, it is best to update the local information to match what settings truly exist on the remote system.

User response:  Select Yes to update the local information now, or select No to leave the local information as it is.
DBA1521W  The server version type for this system object has been detected to be newtyp, but the local information shows it to be oldtyp. Do you want to update the local information now to reflect the correct server version type?

Explanation: When you add a new system object, the server version type is automatically set to be either DB2 V5 or DRDA, depending on the operating system type you choose. Later, when actual connections are made to the remote system, the true server version type, which may be a previous release such as DB2 V2, is reported back. In this case, it is best to update the local information to match what settings truly exist on the remote system.

User response: Select Yes to update the local information now, or select No to leave the local information as it is.

DBA1522W  The operating system type and server version type for this system object have been detected to be newos and newtyp respectively, but the local information shows these to be oldos and oldtyp respectively. Do you want to update the local information now to reflect the correct settings for these values?

Explanation: When you add a new system object, you specify an operating system type, which is stored locally for that remote system. Also, the server version type is automatically set to be either DB2 V5 or DRDA, depending on the operating system type you choose. Later, when actual connections are made to the remote system, the true operating system type and server version type are reported back. The original settings for this information may have been incorrect so that they do not match the true settings on the remote system. In this case, it is best to update the local information to match what settings truly exist on the remote system.

User response: Select Yes to update the local information now, or select No to leave the local information as it is.

DBA1530E  The specified system has not been configured to support any protocols that your local system uses.

Explanation: The specified system has been detected on the network, however the Administration Server for this remote system has not been configured to support any protocols that your local system uses.

User response: You must configure communications on the remote system Administration Server, including the DB2COMM parameter, before you can successfully access it.

DBA1533E  Unable to export the server profile.

Explanation: The target file system might not have enough disk space to complete the export operation.

User response: Free some disk space on the target file system and retry the operation. If the problem persists, contact your DB2 system administrator.

DBA1534W  A valid mail server has not been configured.

Explanation: The current value of the SMTP_SERVER DB2 Administration Server configuration parameter is not valid.

User response: Use the Troubleshoot Health Alert Notification wizard to identify a valid mail server.

DBA1540E  The active local instance object is not allowed to be removed.

Explanation: The active local instance object appears in the tree always as the first instance under the local system object. This is a special instance object used to represent the current DB2INSTANCE environment variable setting. You have no direct control over the removal of this object because it has special properties that are required by the local system.

User response: No action is required.

DBA1541E  The active local instance object is not allowed to be changed.

Explanation: The active local instance object appears in the tree always as the first instance under the local system object. This is a special instance object used to represent the current DB2INSTANCE environment variable setting. You have no direct control over the changing of this object because it has special properties that are required by the local system.

User response: No action is required.

DBA1550E  Specify an instance name.

Explanation: You must specify an instance name before you can add this new instance object.

User response: Specify an instance name in the appropriate entry field, and then try the action again.

DBA1551E  The specified instance name is already in use. You must specify an instance name that is unique, otherwise do not specify the instance name and one will be generated for you automatically.

Explanation: You specified an instance name that either matches the name used for another instance object in the tree, or is being used by a system object in the tree. Instance names must be unique within the
control center, and are always capitalized. System objects also use an automatically generated instance name to store their own protocol information, with the instance name usually being a short form of the chosen system name. You cannot use the name 'LOCAL' or the current DB2INSTANCE environment variable setting for the instance name.

User response: Specify a different instance name, and then try the action again.

---

DBA1552E  Specify a remote instance.

Explanation: You must specify a remote instance before you can add this new instance object.

User response: Specify a remote instance in the appropriate entry field, and then try the action again.

---

DBA1560E  Specify a destination name.

Explanation: You must specify a destination name for the selected protocol before you can correctly add this new object.

User response: Specify a destination name in the appropriate entry field, and then try the action again.

---

DBA1561E  Specify a file server.

Explanation: You must specify a file server for the selected protocol before you can correctly add this new object.

User response: Specify a file server in the appropriate entry field, and then try the action again.

---

DBA1562E  Specify a workstation name.

Explanation: You must specify a workstation name for the selected protocol before you can correctly add this new object.

User response: Specify a workstation name in the appropriate entry field, and then try the action again.

---

DBA1563E  Specify a host name.

Explanation: You must specify a host name for the selected protocol before you can correctly add this new object.

User response: Specify a host name in the appropriate entry field, and then try the action again.

---

DBA1564E  Specify a service name.

Explanation: You must specify a service name for the selected protocol before you can correctly add this new object.

User response: Specify a service name in the appropriate entry field, and then try the action again.

---

DBA1565E  Specify a computer name.

Explanation: You must specify a computer name for the selected protocol before you can correctly add this new object.

User response: Specify a computer name in the appropriate entry field, and then try the action again.

---

DBA1566E  Specify an instance name.

Explanation: You must specify an instance name for the selected protocol before you can correctly add this new object.

User response: Specify an instance name in the appropriate entry field, and then try the action again.

---

DBA1567E  This action or function is not available for this instance type or the associated system.

Explanation: The selected action, or associated function, is currently not supported for the type of instance against which the action or function was initiated. Some instance types, for example Satellite Edition, necessarily do not support full functionality.

User response: Refer to the documentation describing available function for this instance type.

---

DBA1568W  Database connection was established but did not establish a syncpoint two-phase connection.

Explanation: An attempt was made to connect to a database using syncpoint two-phase connection type. A connection was established but failed to make a syncpoint two-phase connection. Multisite updates involving this database connection will not be successful.

User response: Check that the multisite update scenario has been configured properly for your environment, ensuring that the coordinating instance is restarted after configuration is complete. If DB2's Syncpoint Manager is being used, check in the db2diag log file to see if it was started successfully.

---

DBA1569E  The action cannot be completed on this instance because its remote instance name is not known.

Explanation: The remote instance name field is an optional parameter and was not specified. To perform this action on a remote instance, the remote instance name must be known.

User response: Invoke the Change Instance window and specify the name of the remote instance.
DBA1570E  The DB2 Administration Server for this system has not been defined.

Explanation: The current operation requires an attachment to the system's administration server but its instance name has not been specified.

User response: Invoke the change action on the target system and specify its instance name, operating system and any other protocol parameters.

DBA1571W  The name of the local system does not match the DB2SYSTEM environment variable.

Explanation: The system name of the local admin node is different from the value of the DB2SYSTEM environment variable.

User response: There are three options:
- Change the value of the DB2SYSTEM environment variable to match the system name of the local admin node.
- Uncatalog the local admin node and recatalog it with a system name that matches the value of the DB2SYSTEM environment variable.

DBA1572E  The instance name instance-name specified is not valid.

Explanation: The instance name specified is not valid. The instance name may be 1 to 8 characters and all of the characters must be from the database manager base character set. Also, the instance name must not match that of any other catalogued instance.

User response: Specify a different value for the instance name.

DBA1573E  This action is not available for the selected system.

Explanation: Some Control Center actions require that an Administration Server be available on the target system. The system that you selected does not have an Administration Server. The requested action is not available for this system.

User response: No action is required.

DBA1580E  New database objects are not allowed to be added to the unknown instance.

Explanation: The unknown instance object appears in the tree only if orphaned databases that are not recognized as belonging to any existing instance are found. The tool tries to prevent you from creating new orphans whenever possible, so you are not allowed to add new ones to the unknown instance.

User response: No action is required.

DBA1581E  Specify a database name.

Explanation: You must specify a database name before you can add this new database object.

User response: Specify a database name in the appropriate entry field, and then try the action again.

DBA1582E  Specify an alias.

Explanation: You must specify an alias before you can add this new database object.

User response: Specify an alias in the appropriate entry field, and then try the action again.

DBA1583E  The specified alias is already in use.

Explanation: You specified an alias that matches the alias used for another database object in the tree. Database aliases must be unique within the control center, and are always capitalized.

User response: Specify a unique alias, and then try the action again.

DBA1590W  The dbase database was created using an earlier version of DB2 than DB2 V5. Only limited function will be allowed for this database until it is migrated.

Explanation: All databases that are found under DB2 V5 type system objects are first assumed to be DB2 V5 databases. This database has now been detected to actually be a back-level database that has not yet been migrated to the DB2 V5 level. You can still access this database, but only limited function is available for back-level databases until you actually migrate them.

User response: No action is required.
Chapter 74. DBA2000 - DBA2499

DBA2000E You have not specified a job description.
Explanation: A description for the job is required information.
User response: Enter a job description in the entry field, and then click on OK.

DBA2001E You have not specified the number of hours for your selection.
Explanation: The number of hours for your selection is required information.
User response: Enter a number in the hours entry field.

DBA2002E You must select at least 1 day of the week for your selection.
Explanation: To schedule a recurring job, you must specify at least one day of the week for the job.
User response: Select at least one day of the week when scheduling a recurring job.

DBA2003E You specified a date that is not valid.
Explanation: The date you specified is not valid. Perhaps the date you have specified is in the past.
User response: Enter a valid date.

DBA2004E You specified a date or time or combination of date and time that is not valid.
Explanation: The next execution date and time cannot be calculated, so no jobs can be scheduled. One possible error is when the time specified for a job to be run once is in the past. Remember that the date and time combination must be valid on the managed host where the schedule job is to be run.
User response: Enter a valid date and time combination.

DBA2005E You have not specified a script name.
Explanation: A name for the script is required information.
User response: Enter a name for the script file, and then click on OK.

DBA2006E You have not specified a comment.
Explanation: You indicated that you want to record a comment when the job is completed, but the comment entry field is empty.
User response: Enter a comment, or clear the 'Record a comment' check box.

DBA2007E You specified a script name that is not valid.
Explanation: The command script is saved as a file in the file system. The script path is at most 255 bytes long. The file name part of the script name can be at most 8 bytes long. If an extension is specified, it cannot be longer than 3 bytes. The script name must not contain any blanks. For example, valid script names can be: j:\script\new.cmd c:\data\test\crtdb.bat
User response: Enter a valid script name, and then click on OK.

DBA2008I Job job-id was created successfully.
Explanation: A new job was scheduled successfully. You may turn to the journal job summary to view the newly created job.
User response: To view the newly created job, turn to the journal job summary by selecting the Journal icon from the icon bar.

DBA2009E A system error occurred. A Scheduler InfoBase call was unsuccessful. RC = return-code. Restart the Admin. Server, and then retry the command.
Explanation: An internal error occurred.
User response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2010E The Scheduler service is not up and running. Restart the Admin. Server, and then retry the command.
Explanation: To perform any action involving the Job Scheduler or the Script Center, the Scheduler service must be up and running.
User response: Restart the Admin. Server, and then retry the command.

DBA2011E A system error occurred. Scheduling type (DBA or PGM) is not valid. Restart the Admin. Server, and then retry the command.
Explanation: An internal error occurred.
User response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2012E  A system error occurred. OS error was detected. RC = return-code. Restart the Admin. Server, and then retry the command.

Explanation: An internal error occurred.
User response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2013E  The job id was not found. Restart the Admin. Server, and then retry the command.

Explanation: An internal error occurred.
User response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2014E  A system error occurred. Unable to change the status of the job. Restart the Admin. Server, and then retry the command.

Explanation: An internal error occurred.
User response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2015E  A system error occurred. Memory allocation was unsuccessful in client. Restart the Admin. Server, and then retry the command.

Explanation: An internal error occurred.
User response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2016E  A system error occurred. Scan handle is not valid. Restart the Admin. Server, and then retry the command.

Explanation: An internal error occurred.
User response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

User response: Are you sure you want to remove the selected jobs?

Explanation: You specified to remove the selected jobs. You have the chance now to double-check the jobs that you selected to remove, and either to continue or to cancel the request.

User response: Select YES to remove the selected jobs. Select NO to cancel the remove request.

DBA2018I  Are you sure you want to remove the selected saved scripts?

Explanation: You specified to remove the selected scripts that are currently saved. You have the chance now to double-check the scripts that you selected to remove, and either to continue or to cancel the request.

User response: Select YES to remove the selected scripts. Select NO to cancel the remove request.

DBA2019E  You have not specified the number of days for your selection.

Explanation: The number of days for your selection is required information.
User response: Enter a number in the days entry field.

DBA2020E  A system error occurred. Unable to determine script type. Command script was not executed.

Explanation: An internal error occurred.
User response: Select YES to discard the changes. Select NO to resume editing the command script.

DBA2021I  Command script script-id was created successfully.

Explanation: A new script was saved successfully in the Script Center. You may turn to the Script Center to view the new command script.
User response: To view the newly saved script, turn to the Script Center by selecting the Script Center icon from the icon bar.

DBA2022I  Instance instance-name does not exist. Command script was not executed.

Explanation: The instance name associated with the script file does not exist.
User response: You may select "Edit" from the Script Center to update the instance name to an existing instance.
DBA2024E Command script script-id does not exist.
Explanation: The scheduled job cannot be executed because the script file associated with the job does not exist.
User response:

DBA2025E A system error occurred. This problem may also be related to memory allocation on the client. Restart the Admin. Server, and then retry the command.
Explanation: An internal error occurred.
User response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2026I Are you sure you want to remove the selected job?
Explanation: You specified to remove the selected job. You have the chance now to double-check the job that you selected to remove, and either to continue or to cancel the request.
User response: Select YES to remove the selected job. Select NO to cancel the remove request.

DBA2027I Are you sure you want to remove the selected saved script?
Explanation: You specified to remove the selected script that is currently saved. You have the chance now to double-check the script that you selected to remove, and either to continue or to cancel the request.
User response: Select YES to remove the selected script. Select NO to cancel the remove request.

DBA2028E You have not specified the number of weeks for your selection.
Explanation: The number of weeks for your selection is required information.
User response: Enter a number in the weeks entry field.

DBA2029E A system error occurred. Scheduler key was not found. Restart the Admin. Server, and then retry the command.
Explanation: An internal error occurred.
User response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2030E You did not specify a system name. Select one from the list.
Explanation: The system name is required information to process the action.
User response: Select a system name from the drop-down list.

DBA2031I Job job-id was rescheduled successfully.
Explanation: A job that you requested to be rescheduled was rescheduled successfully.
User response:

DBA2032E You have not specified a script name.
Explanation: A name for the script is required information.
User response: Enter the script name in the entry field, and then click on OK.

DBA2033E You have not entered the command script.
Explanation: The command script is empty.
User response: Enter the command script content, and then click on OK.

DBA2034I Command script script-id was updated successfully.
Explanation:
User response:

DBA2035E A system error occurred. Unable to retrieve the command script script-id. Restart the Admin. Server, and then retry the command.
Explanation: An internal error occurred.
User response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2036E A system error occurred. Unable to create the command script. Restart the Admin. Server, and then retry the command.
Explanation: An internal error occurred.
User response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.
A system error occurred. Unable to replace the command script `script-id`. Restart the Admin. Server, and then retry the command.

Explanation: An internal error occurred.

User response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

A system error occurred. Unable to copy the command script `script-id`. Restart the Admin. Server, and then retry the command.

Explanation: An internal error occurred.

User response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

You have not specified the number of months for your selection.

Explanation: The number of months for your selection is required information.

User response: Enter a number in the months entry field.

You must select at least 1 day of the month for your selection.

Explanation: To schedule a recurring job, you must specify at least one date per month for the job.

User response: Select at least one date per month when scheduling a recurring job.

A system error occurred. Unable to remove the command script `script-id`. Restart the Admin. Server, and then retry the command.

Explanation: An internal error occurred.

User response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

A system error occurred. Unable to run the command script `script-id`. Restart the Admin. Server, and then retry the command.

Explanation: An internal error occurred.

User response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

A system error occurred. The disk is full.

Explanation: There is no more room on the disk. Processing cannot continue.

User response: Delete unwanted files from the file system. If the problem persists, contact your system administrator.

Job `job-id` was created successfully for running command script `script-id`.

User response:

You have not specified a script description.

Explanation: A description for the script file is required information.

User response: Enter a description for the script file, and then click on OK.

Command script `script-id` is system-generated. Content cannot be edited.

Explanation: The script associated with a backup or reorganize table action is not in readable format.

User response: Select a different command script file to edit.

You have not specified the number of months for your selection.

Explanation: The name of each script file must be unique. You specified a file name that already exists.

User response: Specify an unique script file name.

A system error occurred. File access was denied.

Explanation: The application was unable to access the file in the file system.

User response: Retry the command. If the problem persists, contact your system administrator.
DBA2051E  A system error occurred. A hard disk error occurred.

Explanation: An internal error relating to the hard disk occurred. The application was unable to access a file.

User response: Retry the command. If the problem persists, contact your system administrator.

DBA2052E  Unable to execute the job due to logon failure. Userid = user-id.

Explanation: The password was invalid for the given userid or the userid is invalid.

User response: Enter a valid userid and password when prompted.

DBA2053E  A system error occurred. Unable to remove job history entry.

Explanation: An internal error occurred.

User response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2054E  A system error occurred. Unable to run job job-id.

Explanation: An internal error occurred.

User response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2055E  Command script script-id has been removed from the Script Center.

Explanation: A new script file with the name script-name was created successfully.

User response: To view the newly created script, turn to the Script Center by selecting the Script Center icon from the icon bar.

DBA2056E  Command script script-id was not changed.

Explanation: A new script file with the name script-name was created successfully.

User response: To view the newly created script, turn to the Script Center by selecting the Script Center icon from the icon bar.

DBA2057E  A system error has occurred. The path was not valid.

Explanation: An internal error occurred.

User response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2058E  A line in the file is greater than number bytes.

Explanation: The maximum number of bytes in a line is exceeded.

User response: Rewrite the long line into separate lines without exceeding the limit.

DBA2059E  A system error occurred. There was a sharing violation.

Explanation: An internal error occurred.

User response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2060E  A system error occurred. Unable to copy script script-id.

Explanation: An internal error occurred.

User response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2061E  Script script-name was created successfully.

Explanation: A new script file with the name script-name was created successfully.

User response: To view the newly created script, turn to the Script Center by selecting the Script Center icon from the icon bar.

DBA2062E  A system error occurred. Unable to create a new script. Restart the Admin. Server, and then retry the command.

Explanation: An internal error occurred.

User response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2063E  A system error occurred. Unable to retrieve the results of job job-id. Restart the Admin. Server, and then retry the command.

Explanation: An internal error occurred.

User response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.
DBA2064E  A Script Center record already exists for this script file name. Specify a different script file name.

Explanation:  The name of each script file must be unique within the Script Center. You specified a file name that already exists.

User response:  Specify an unique script file name.

DBA2065E  A system error occurred. The script file does not exist in the file system.

Explanation:  The script file was not found in the file system. The file may have been erased.

User response:  Remove the script entry and recreate it.

DBA2067I  The REORG TABLE command completed successfully.

Explanation:

User response:

DBA2068E  You have not entered the instance name.

Explanation:  The name of the instance is required information.

User response:  Enter the instance name in the entry field, and then click on OK.

DBA2069W  The maximum number of number jobs has been created. Please remove obsolete jobs.

Explanation:

User response:  Remove jobs that are no longer needed before creating another new job.

DBA2070W  The maximum number of number scripts has been created. Please remove obsolete scripts.

Explanation:

User response:  Remove scripts that are no longer needed before creating another new script.

DBA2071W  The maximum number of number bytes has been reached. Data shown is truncated. The complete file file-name can be found at the server.

Explanation:  The editor cannot handle a file as large as the current one. Data shown had to be truncated.

User response:  The entire file can be viewed at the server in the indicated location.

DBA2072E  The script associated with job job-id has been removed from the Script Center.

Explanation:  The script file does not exist anymore.

User response:

DBA2073E  You have not specified a userid and password.

Explanation:  A userid and password for running the job are required.

User response:  Enter a valid userid and password for running the job, and then click on OK.

DBA2074E  A system error occurred. The working directory path was not valid.

Explanation:  The specified working directory does not exist so it cannot be used to run the script.

User response:  Use the Browse... button to select a valid working directory path.

DBA2075I  Job job-id has been submitted. Use the Jobs page on the Journal to view the results.

Explanation:

User response:

DBA2076E  The job terminated abnormally.

Explanation:

User response:

DBA2077E  File name file-name already exists in the file system.

Explanation:  File name must be unique.

User response:  Specify another file name.

DBA2078E  An unexpected error occurred. There is no job output.

Explanation:  There is no job output from running the job.

User response:  A possible error could be an invalid file extension is used on the operating system. Recreate the script with a valid extension.

DBA2081W  The file file-name exceeds the maximum number of bytes (maximum-bytes) for the Script Center. You must use an external editor to view or edit the file.

Explanation:  The file is larger than the maximum size that the Script Center can display.
User response: Use an external editor to view or edit the file.

DBA2082W The file permissions for the script do not allow Script Center to read the script with the current user ID.

Explanation: The file permissions for the script do not allow Script Center to read the script with the current user ID.

User response: Ensure that you have set appropriate file permissions for the script.

DBA2083I You are about to edit a dialog based task and in doing so will remove the ability to edit it with its dialog. Do you wish to continue?

Explanation: The task you are about to edit was created by a DBA Tools dialog or a Wizard. It is recommended to use the 'Edit with dialog' action on this task instead of editing it manually. If you choose to edit this task manually, you will lose the ability to 'Edit with dialog' in the future. Other capabilities may also be lost, such as detailed 'Show Progress'.

User response: Select 'No' to keep the task in a dialog based task format. Select 'Yes' to convert the task to a simple task and continue editing it manually.

DBA2151E The script cannot be scheduled because it was not saved.

Explanation: The script cannot be scheduled because you canceled the save action and therefore, the script was not saved in the Script Center.

User response: Save the script and then try scheduling again.

DBA2152I The script has to be saved to the Script Center before it can be scheduled.

Explanation: Only scripts that are saved in the Script Center can be scheduled and run.

User response: Select OK to save the script to the Script Center, or Cancel if you do not want to schedule the script.

DBA2153I File file-name was opened successfully.

Explanation: A new file with the name file name was created successfully in the file system.

User response:

DBA2154I Script script-name was opened successfully.

Explanation: A new script with the name script name was created successfully in the Script Center.

User response:

DBA2155I Do you want to overwrite file file-name?

Explanation: The file file name currently exists in the file system and the save operation will overwrite its contents.

User response: Select OK if you want to overwrite the contents of the file, or Cancel if you do not want to alter its contents.

DBA2156I Do you want to overwrite script script-name?

Explanation: The script script name currently exists in the Script Center and the save operation will overwrite its contents.

User response: Select OK if you want to overwrite the contents of the script, or Cancel if you do not want to alter its contents.

DBA2157I File file-name was updated successfully.

Explanation:

User response:

DBA2158I File file-name was created successfully.

Explanation: A new file with the name file name was created successfully in the file system.

User response:

DBA2160I The script has to be saved to the Task Center before it can be scheduled.

Explanation: Only scripts that are saved in the Task Center can be scheduled and run.

User response: Select OK to save the script to the Task Center, or Cancel if you do not want to schedule the script.

DBA2161I Do you want to overwrite script script-name?

Explanation: The script script name currently exists in the Task Center and the save operation will overwrite its contents.

User response: Select OK if you want to overwrite the contents of the script, or Cancel if you do not want to alter its contents.

DBA2171I Do you want to discard all your changes to the script, and exit from the Command Center?

Explanation: You specified to exit from the Command Center, but the changes to the current script have not yet been saved. Your changes will be lost unless you cancel your exit request.
User response: Select Yes to discard your changes and exit from the Command Center, or select No to cancel the exit request.

**DBA2172I** Do you want to discard your changes to the current script, and create a new script?

User response: Select Yes to discard your changes and to create a new script, or select No to cancel the request.

**DBA2173I** The Command Center is still processing a command. Try again later.

Explanation: You tried to run a script or issue a set of commands, but the Command Center cannot process your command until it has finished processing the current one.

User response: Please wait a few moments and try the command again. To stop the current command, click on the turning gears icon on the tool bar or select "Terminate" from the Results menu on the Results page.

**DBA2174E** The file file-name specified on the command line could not be opened. Make sure that the file exists and that you have read access to the file, and then try again.

Explanation: You specified the name of a file containing a script that you want to import, but the Command Center could not access that file.

User response: Make sure that you have entered the file name correctly on the command line, that the file exists, and that your user ID has read access to that file.

**DBA2175E** There is not enough memory to create the Command Center window. The application cannot continue.

Explanation: The system encountered a memory allocation problem when trying to create the Command Center window.

User response: Make sure there is enough memory on your system to run the Command Center, and then try again.

**DBA2176E** The system environment did not initialize. The application cannot continue. Restart the database manager and try again, or contact your local support personnel.

Explanation: The command processor environment did not initialize properly.

User response: Make sure you have enough disk space and then try again.

**DBA2177E** The system could not create an access plan because a problem relating to Visual Explain has occurred.

Explanation: Command Center has encountered a problem when trying to create an access plan.

User response: Please refer to the help from the previous messages.

**DBA2178E** You need a database connection in order to create an access plan. Use the "Connect" statement to connect to a database, and then try the command again.

User response: Establish a database connection first using the "Connect" statement, and then create an access plan for that database. To see a list of available databases, issue the command "list database directory".

**DBA2179E** An access plan cannot be created because the statement you used is not in the correct format or is not a query.

Explanation: The statement you used to try to create an access plan is either not in the correct format for a query or is not a query.

User response: Check your statement for errors in query format, make necessary changes, and retry the statement. Refer to Visual Explain documentation for guidance on forming valid queries.

**DBA2180I** The program name "db2" before the statement will be ignored because it is not required.

Explanation: You don't need to type "db2" before a statement in the Command Center. It is only required at the operating system command prompt.

User response: No action is required.

**DBA2181I** The Command Center is not available at this time. Retry this operation later.

Explanation: The JDBC server does not support multiple WEBCC Command Center sessions. The JDBC server is already busy with an existing Command Center session.

User response: Wait until the current Command Center session is finished and retry the operation.
**DBA2182N**

A script name following the pattern `script-name-pattern` cannot be saved because the Script Center already contains too many scripts with names that follow the same pattern. Remove old scripts that follow this pattern from the Script Center then invoke the tool-name again.

**Explanation:**
There are too many automatically generated scripts with names like `script_name_pattern`.

**User response:**
In the Script Center, remove at least one script with a name like `script_name_pattern`, then invoke the tool-name again.

---

**DBA2192E**

Database connection failed.

**Explanation:**
A JDBC connection to the database failed. SQL Assist requires a JDBC connection to function.

**Explanation:**
Verify that the JDBC driver is running. Reconnect to the database and try launching SQL Assist again.

If the JDBC driver is running and the problem persists, contact IBM Support.

---

**DBA2193W**

`window-name` cannot run without `program-name`. Ensure that the Database Tools subcomponent is installed.

**Explanation:**
To invoke `window-name`, the `program-name` application must be installed on the server. By default, the Database Tools subcomponent of the Administration and Configuration Tools component is selected during installation. The Database Tools subcomponent must be selected during installation in order for the `program-name` application to be installed.

**User response:**
Ensure the Database Tools subcomponent is installed. If Database Tools was not selected during the installation of the database server, you will need to run DB2 Setup again.

1. Stop all DB2 services.
2. Run DB2 Setup.
3. Select Custom install.
4. Uncheck all components except Administration and Configuration Tools.
5. In the details for Administration and Configuration Tools, select Database Tools.
6. Complete the install.
7. Restart all DB2 services.
8. Use the `window-name`.

---

**DBA2194E**

The XQuery Assist component could not be opened.

**Explanation:**
The XQuery Assist component is part of the IBM Data Studio, which might not be properly installed.

**User response:**
Reinstall IBM Data Studio.
Chapter 75. DBA3000 - DBA3499

DBA3007W Are you sure you want to delete the explained statement?
Explanation: You are about to delete the explained statement. This will delete the rows in the explain tables.
User response: Ensure that you want to delete the explained statement.

DBA3008W Are you sure you want to delete the explained statements?
Explanation: You are about to delete the explained statements. This will delete the rows in the explain tables.
User response: Ensure that you want to delete the explained statements.

DBA3009E A system error occurred. The Visual Explain tool could not continue processing.
Explanation: An unexpected error occurred causing the operation to stop.
User response: Possible solutions include:
• Verify that your system has sufficient memory.
• Where appropriate, stop other programs using the system.

If the problem persists, contact your system administrator.

DBA3010E The explain snapshot has been deleted. Your request cannot be completed.
Explanation: The explain snapshot that is requested has been deleted from the explain tables.
User response: Regenerate the snapshot.

DBA3011E This explain snapshot was created using a different version of the database manager from the Visual Explain Tool. Your request cannot be completed.
Explanation: The explain snapshot was created using a newer version or an older version of the database manager from the Visual Explain Tool. The access plan graph cannot be constructed by the Tool.
User response: Use the same version of the database manager as the Visual Explain Tool to graph the explain snapshot.

DBA3012I String not found.
Explanation: The search string is not found in the text being displayed.
User response: None.

DBA3013E Text is missing. You must specify the text string to be found.
Explanation: You did not specify a search string.
User response: Specify a search string.

DBA3014E No selection is made in the list. You must select at least one entry in the list.
Explanation: You did not make a selection in the list.
User response: Select at least one entry in the list.

DBA3015I There are no referenced columns associated with this access plan.
Explanation: There were no columns referenced in the query for the referenced table.
User response: None.

DBA3016I There are no page fetch pairs statistics associated with this index.
Explanation: There are no page fetch pairs statistics stored in the catalog table for this index. Refer to the System Catalog Statistics section in the Administration Guide for more details.
User response: None.

DBA3017I There are no referenced functions associated with this access plan.
Explanation: This access plan did not require the use of any functions.
User response: None.

DBA3018I There are no column distribution statistics associated with this column.
Explanation: There are no column distribution statistics stored in the catalog table for this column. Refer to the System Catalog Statistics section in the Administration Guide for more details.
User response: None.

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DBA3019I  There are no indexes associated with this table.
Explanation: There were no indexes defined on the referenced table at the time of explain and there are no indexes currently defined in the table.
User response: None.

DBA3020E  An error occurred while a COMMIT against the database was being attempted and no SQLCODE can be returned.
Explanation: An unexpected error occurred.
User response: Contact your system administrator.

DBA3021E  An error occurred while a ROLLBACK against the database was being attempted and no SQLCODE can be returned.
Explanation: An unexpected error occurred causing the operation to stop.
User response: Contact your system administrator.

DBA3022E  The Get Database Manager Configuration API passed back a non-zero return code.
Explanation: An unexpected error occurred causing the operation to stop.
User response: Contact your system administrator.

DBA3023E  The Get Database Configuration API passed back a non-zero return code.
Explanation: An unexpected error occurred causing the operation to stop.
User response: Contact your system administrator.

DBA3024E  An error occurred while saving to the file file.
Explanation: Possible problems include:
- The file cannot be opened for write.
- The file name does not conform to the file system convention.
User response: Possible solutions include:
- Change the file attribute to read write.
- Specify the correct file name.

DBA3025E  An error occurred while retrieving from the file file.
Explanation: Possible problems include:
- The file is not readable.
- The file does not exist.

DBA3026E  No printers are installed.
Explanation: There are no printers installed on your machine.
User response: Install a printer on your machine.

DBA3031I  There are no referenced table spaces associated with this access plan.
Explanation: This access plan did not reference any database objects contained in a table space.
User response: None.

DBA3032E  An error occurred while retrieving from the file file.
Explanation: Possible problems include:
- The file is not readable.
- The file does not exist.

DBA3033I  The snapshot was created using code page codepage but is not converted to the code page of the window running the Visual Explain Tool.
Explanation: The snapshot of the access plan graph displayed was created on a code page different from the code pageug of the window running the Visual Explain Tool. Code page conversion is not successful because the snapshot is too large. The access plan graph is displayed without code page conversion. You may not be able to display the current statistics when you open the statistics windows.
User response: Change the code page of the window running the Visual Explain Tool to the same one used to create the snapshot and display the access plan graph again.

DBA3034W  The snapshot was created using code page codepage but is not converted to the code page of the window running the Visual Explain Tool. The value of the database manager configuration parameter ASLHEAPSZ is too small.
Explanation: The snapshot of the access plan graph displayed was created on a code page different from the code page of the window running the Visual Explain Tool. Code page conversion is not successful because the user defined function used to convert between the code pages do not have enough memory to run. The access plan graph is displayed without code page conversion. You may not be able to display the current statistics when you open the statistics windows.
User response: Possible solutions include:
- Change the database manager configuration parameter ASLHEAPSZ of your server to 512 and display the access plan graph again. Note that the configuration parameter may not take effect until the next time you do a db2start on your server.
• Change the code page of the window running the Visual Explain Tool to the same one used to create the snapshot and display the access plan graph again.

**DBA3036I**  
Explain tables have been created to process your dynamic explain request.

**Explanation:** One or more explain tables have been created under the current user ID. These tables will be used to store the information needed by your dynamic explain request.

**User response:** None.

**DBA3037E**  
The explain snapshot has been corrupted. Your request cannot be completed.

**Explanation:** The explain snapshot that is requested has been corrupted in the explain tables.

**User response:** Regenerate the snapshot.

**DBA3038I**  
There are no referenced buffer pools associated with this access plan.

**Explanation:** This access plan did not reference any database objects contained in a buffer pool.

**User response:** None.

**DBA3039E**  
Explain tables cannot be found.

**Explanation:** Explain tables do not exist.

**User response:** Create explain tables using one of the following methods:

• Run the EXPLAIN.DDL sample command file. This file is located in the sqllib\misc directory. To run the command file, go to this directory and issue the `db2 -tf EXPLAIN.DDL` command.

• Call the SYSPROC.SYSINSTALLOBJECTS procedure.

**DBA3040E**  
The command is specified incorrectly.

**Explanation:** The command has invalid syntax.

**User response:** Issue the command with the -h option to see the correct syntax.

**DBA3041E**  
The name of the database must be between 1 and maximum characters long.

**Explanation:** The specified database name is either empty or too long.

**User response:** Reissue the command with a valid database name.

**DBA3042E**  
The explainable statement text must be between 1 and maximum characters long.

**Explanation:** The specified explainable statement text is either empty or too long.

**User response:** Reissue the command with valid explainable statement text.

**DBA3043E**  
The query tag cannot have more than maximum characters.

**Explanation:** The specified query tag is too long.

**User response:** Reissue the command with a valid query tag.

**DBA3044E**  
The user ID cannot have more than maximum characters.

**Explanation:** The specified userid is too long.

**User response:** Reissue the command with a valid userid.

**DBA3045E**  
The valid range for query number is from 0 to maximum.

**Explanation:** The specified query number is either too small or too large.

**User response:** Reissue the command with a valid query number.

**DBA3046E**  
The valid values for optimization class are 0, 1, 2, 3, 5, 7 and 9.

**Explanation:** The specified optimization class is not one of the valid values.

**User response:** Reissue the command with a valid optimization class.

**DBA3047E**  
The database name cannot be found.

**Explanation:** The database name specified in the command does not exist in the system database directory.

**User response:** Reissue the command with an existing database name or catalog the database in the system database directory.

**DBA3048E**  
The database name is not a valid database name.

**Explanation:** The specified database name is not a valid database name.

**User response:** Reissue the command with a valid database name.

**DBA3059I**  
There is no details information associated with the selected operator operator.

**Explanation:** The details information of the selected operator is not available for the current release of the DB2 Administration Tools.

**User response:** None.
DBA3060I There is no help information associated with the selected operator.

Explanation: The help information of the selected operator is not available for the current release of the DB2 Administration Tools.

User response: None.

DBA3061I There are no column groups associated with this table.

Explanation: There were no column groups defined on the referenced table at the time of explain and there are no column groups currently defined in the table.

User response: No response required.

DBA3062N Generate DDL cannot be performed on system tables.

Explanation: Tables with schema SYSIBM, SYSCAT, or SYSSTAT are system tables.

User response: Perform generate DDL on non-system tables.

DBA3063N One or more system tables have been selected for generating DDL. DDL will be generated for selected user tables only. Do you want to continue?

User response: Tables with schema SYSIBM, SYSCAT, and SYSSTAT are system tables.

User response: Click Yes to generate DDL for non-system tables only. Click No to abort generate DDL operation.

DBA3064N Only the first number tables will be processed by db2look.

Explanation: The db2look -t option will only process number tables.

User response: Move the list of selected tables to the list of available tables.

DBA3065E Snapshot cannot be processed due to a CLI error.

Explanation: A CLI error has occurred during snapshot processing. An access plan cannot be displayed.

User response: Check the CLI configuration by issuing the following command:
db2 get cli cfg for section <db-name>

If LONGDATACOMPAT is set to 1, try cataloging the database with a different alias:
catalog db <db-name> as <db-alias-name>

Set LONGDATACOMPAT=0 for the database alias:
db2 update cli cfg for section <db-alias-name> using longdatacompat 0

Submit the query for EXPLAIN in the alias database.

If LONGDATACOMPAT is not set to 1, or the parameter is not being set in the CLI configuration, contact IBM Service.

DBA3066E Statement text for a snapshot contains an empty string.

Explanation: The statement text of an explain record contains an empty string. Explained statement history cannot be retrieved successfully.

User response: Check the CLI configuration by issuing the following command:
db2 get cli cfg for section <db-name>

If LONGDATACOMPAT is set to 1, try cataloging the database with a different alias:
catalog db <db-name> as <db-alias-name>

Set LONGDATACOMPAT=0 for the database alias:
db2 update cli cfg for section <db-alias-name> using longdatacompat 0

Submit the query for EXPLAIN in the alias database.

If LONGDATACOMPAT is not set to 1, or the parameter is not being set in the CLI configuration, contact IBM Service.
### Chapter 76. DBA4000 - DBA4499

<table>
<thead>
<tr>
<th>DBA4000W</th>
<th>Are you sure you want to stop monitoring?</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>You have requested to stop monitoring all database objects that are currently monitored and to exit the Performance Monitor.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Click &quot;Yes&quot; to process the request or &quot;No&quot; to cancel it.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBA4001I</th>
<th>There is no monitor summary for your selection.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>You requested to show monitor activity on a level of object in which nothing is being monitored. There is no summary activity to be shown.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Retry the action when a monitor is started on a object that corresponds to the level you have selected.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBA4002W</th>
<th>Are you sure you want to stop monitoring name?</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>You have requested to stop monitoring an object that is currently being monitored.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Click &quot;Yes&quot; to process the request or &quot;No&quot; to cancel it.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBA4003I</th>
<th>Only the default level is changed for IBM supplied monitors.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>For an IBM-supplied monitor, the only attribute that you can change is the level for which this monitor is designated as the default.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBA4004E</th>
<th>Multiple selection is only allowed for the Remove action.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>You selected more than one monitor from the list of monitors. The only action you can perform on multiple objects is Remove.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Deselect all monitors except one from the list and retry the action.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBA4005W</th>
<th>Are you sure you want to remove the selected monitors?</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>You requested to remove the selected monitors from the list.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Click &quot;Yes&quot; to process the request or &quot;No&quot; to cancel it.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBA4006W</th>
<th>Are you sure you want to reset the counters?</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>You requested to reset the database counters.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Click &quot;Yes&quot; to process the request or &quot;No&quot; to cancel it.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBA4007W</th>
<th>Are you sure you want to stop monitoring all objects in this level?</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>You have requested to stop monitoring all objects in this level that are currently being monitored.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Click &quot;Yes&quot; to process the request or &quot;No&quot; to cancel it.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBA4008W</th>
<th>Are you sure you want to stop monitoring all database partitions in this object?</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>You have requested to stop monitoring all database partitions in this object that are currently being monitored.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Click &quot;Yes&quot; to process the request or &quot;No&quot; to cancel it.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBA4009I</th>
<th>The IBM supplied monitors are being created.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The IBM supplied monitors are being created. This may take a while.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBA4010E</th>
<th>The Performance Monitor encountered a problem and cannot continue. Retry the action. If the problem persists, take a trace at the client and the server, and contact support personnel.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>Unexpected error has occurred.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Take a trace at the client and the server and contact support.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBA4011E</th>
<th>The program name is not a valid name. The program cannot be run. Check the name and retry the action.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>You have specified an invalid program name.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Specify a valid program name and retry the action.</td>
</tr>
<tr>
<td>Code</td>
<td>Message</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>DBA4012E</td>
<td>The program <em>name</em> cannot be run. The currently executing thread is not allowed to execute the specified program.</td>
</tr>
<tr>
<td>DBA4013I</td>
<td>Database manager node <em>name</em> is down.</td>
</tr>
<tr>
<td>DBA4014I</td>
<td>The state of database manager node <em>name</em> is unknown.</td>
</tr>
<tr>
<td>DBA4015E</td>
<td><em>name</em> contains invalid input. Please re-enter the entry.</td>
</tr>
<tr>
<td>DBA4016E</td>
<td>New monitor cannot be created. The maximum number of monitors is <em>number</em>.</td>
</tr>
<tr>
<td>DBA4017E</td>
<td>The monitoring connection cannot be established. The maximum number of monitoring connections is <em>number</em>.</td>
</tr>
<tr>
<td>DBA4018W</td>
<td>Your entry in <em>name</em> is too long. The maximum number of characters is <em>number</em>. Your entry is truncated.</td>
</tr>
<tr>
<td>DBA4019E</td>
<td>Your entry in <em>name</em> is too long. The maximum number of characters is <em>number</em>. Retry your action with valid input.</td>
</tr>
<tr>
<td>DBA4020W</td>
<td>You made changes to the performance monitor <em>name</em>. Do you want to save your changes?</td>
</tr>
<tr>
<td>DBA4021W</td>
<td>You made changes to the performance variable settings for <em>name</em>. Do you want to apply your changes to the next snapshot?</td>
</tr>
<tr>
<td>DBA4023E</td>
<td>You entered a combination of alarm and warning threshold values that is not valid for performance variable <em>name</em>. Change one or more threshold values and try again.</td>
</tr>
</tbody>
</table>
DBA4024W  The Summary page cannot show more than number columns. Turn to the Details page to see all the performance variables.

**Explanation:** The Summary page currently displays as many columns as it can accommodate, but some performance variables are not shown.

**User response:** Turn to the Details page to see all the performance variables.

---

DBA4025W  The type view cannot show more than number performance variables.

**Explanation:** The maximum number of performance variables are shown.

**User response:** Remove one or more performance variables from the type view before adding more.

---

DBA4026E  A non-applicable monitor has been set as default for this level.

**Explanation:** The monitor must include at least one performance variable for this level.

**User response:** Modify the monitor to include at least one performance variable for this level.

---

DBA4027I  Monitoring has not been started as there is nothing to monitor.

**Explanation:** Currently there are no databases or gateway connections to be monitored for this instance.

**User response:** Catalog a database or gateway connection to start monitoring.

---

DBA4060E  The Performance Monitor is currently active with another monitor for this instance.

**Explanation:** Only one monitor can be active at a time per instance. For example, if your default monitor for databases is different from your default monitor for connections, you will not be able to monitor databases and monitor (or list) connections at the same time.

**User response:** In the List Monitors window, you can:
1. Find out which monitor is running and stop it so you can specify a different one.
2. Find out which monitor is running and specify it for your next monitoring action.
3. Create a monitor that contains performance variables for all levels, and then select it as your default monitor for each level.

---

DBA4065E  The threshold value cannot be blank or contain more than 9 characters. Enter a valid threshold value.

**Explanation:** You entered a threshold value which is not valid or your value has been modified internally. For example, 123456789 will be modified to 123,456,789.0 which exceeds the number of characters allowed in the threshold.

**User response:** Re-enter the threshold value and retry your action.

---

DBA4070E  The JDBC server encountered a problem. The list of performance monitors could not be processed.

**Explanation:** An unexpected problem is encountered.

**User response:** Verify that the JDBC server is up and running. If it is, take a trace at the JDBC server and then contact support personnel.

---

DBA4071W  Some monitors are currently in use locally. The refreshed list shows local monitors only.

**Explanation:** The list of monitors is refreshed with local monitors only.

**User response:** To show the complete list, stop the active monitors and retry the operation.

---

DBA4072E  This monitor name already exists. Specify a unique name.

**Explanation:** Performance monitor names in a JDBC server must be unique regardless of the monitor's creator.

**User response:** Specify a unique monitor name.

---

DBA4074E  The JDBC server encountered a problem. The operation could not be performed.

**Explanation:** An unexpected problem is encountered.

**User response:** Verify that the JDBC server is up and running. If it is, take a trace at the JDBC server and then contact support personnel.

---

DBA4075E  This performance monitor is empty so it cannot be saved. Add at least one performance variable to the monitor and retry the operation.

**Explanation:** Monitors need to contain at least one performance variable in order to be valid.

**User response:** Add at least one performance variable to the monitor and retry the operation.
DBA4076E  The action cannot be performed because you are not the creator of the monitor.

**Explanation:** You must own the monitor to be able to change, rename or remove it.

**User response:** If you were trying to change a monitor, copy it under a different name and then change it.

DBA4079E  This monitor is currently in use locally. Stop the monitor, and then remove or rename it.

**Explanation:** You cannot remove or rename an active monitor.

**User response:** Stop the monitor before removing or renaming it.

DBA4080E  This monitor is currently in use remotely. Wait till the monitor is stopped, and then remove or rename it.

**Explanation:** You cannot remove or rename an active monitor.

**User response:** Wait till the monitor is stopped before removing or renaming it.

DBA4083E  This monitor could not be found. Another user might have removed it. Stop all monitoring and then refresh your list of monitors.

**Explanation:** Another user might have removed the monitor that you are using.

**User response:** Stop all monitoring and refresh your list of monitors.

DBA4090E  Connection to the JDBC server has ended abnormally. Close the Control Center and retry the operation. If the problem persists, take a trace at the JDBC server and contact support personnel.

**Explanation:** An unexpected error has occurred.

**User response:** Close the Control Center and retry the operation. If the problem persists, take a trace at the JDBC server and contact support personnel.

DBA4095I  This function has not been implemented on this object.

**Explanation:** This function has been planned for a future release but is not currently implemented on this object.

**User response:** None.

DBA4220I  Full database restore cannot be done from a table space backup image.

**Explanation:** Full database restore cannot be done from a table space backup image.

**User response:** None.

DBA4221I  Table space selection is not allowed for the media type.

**Explanation:** Table space selection is not allowed for the media type.

**User response:** None.

DBA4222I  Table space selection is not allowed since the database is in backup pending state.

**Explanation:** Table space selection is not allowed since the database is in backup pending state.

**User response:** None.

DBA4223I  Full database required when backup image information is entered manually.

**Explanation:** Full database required when backup image information is entered manually.

**User response:** None.
Chapter 77. DBA4500 - DBA4999

**DBA4730E** Performance monitoring encountered a problem while accessing the monitor server. Monitoring cannot continue. 
* smcode: Error-code

**Explanation:** See the Administration Server error logs for more information.

**User response:** Contact your technical service representative with the smcode.

**DBA4731E** A resource problem occurred on the Monitor Server. smcode: Error-code

**Explanation:** See the Administration Server error logs for more information.

**User response:** Free up some server resource and retry the operation. If the problem persists, contact your technical service representative with the smcode.

**DBA4732E** A problem occurred when trying to attach to the database instance. smcode: Error-code

**Explanation:** See the Administration Server error logs for more information.

**User response:** Retry the operation. If the problem persists, contact your technical service representative with the smcode.

**DBA4733W** The monitored database instance is stopped. Restart the instance. smcode: Error-code

**Explanation:** See the Administration Server error logs for more information.

**User response:** Restart the instance. If the problem persists, contact your technical service representative with the smcode.

**DBA4734E** Performance monitoring encountered a problem while accessing the monitor server. smcode: Error-code

**Explanation:** See the Administration Server error logs for more information.

**User response:** Retry the operation. If the problem persists, contact your technical service representative with the smcode.

**DBA4735E** A problem occurred when trying to attach to the database instance. smcode: Error-code

**DBA4736E** Unable to determine the current territory code or current code page in use on the client. smcode: Error-code

**Explanation:** The client's territory code and code page must be sent to the server so that the data is returned in the correct code page. The Monitor Server was unable to determine the active territory code or code page.

**User response:** Refer to your operating system documentation to determine how to set the territory code and active code page for your system. Retry the operation after setting the territory code and code page.

**DBA4737E** Unable to set the current client territory code or current code page on the server. smcode: Error-code

**Explanation:** The client's territory code and code page must be sent to the server so that the data is returned in the correct code page. The Monitor Server was unable to set the client's active territory code or code page on the server.

**User response:** Refer to your operating system documentation to determine how to activate the client's territory code and active code page on your server's system. Retry the operation after activating the territory code and code page.

**DBA4738E** The Administration Server on system name is not started. smcode: Error-code

**Explanation:** The listed Administration Server on system name is not started.

**User response:** Start the Administration Server and retry the operation.

**DBA4739E** The client system's code page could not be determined. The client system might not be set up correctly. smcode: Error-code

**Explanation:** This is a client system setup problem.

**User response:** Contact IBM Service.
**DBA4740E**  
The client code page *name* is not available on instance *name*.  
smcode: Error-code  

**Explanation:** The listed code page has not been installed on instance *name*.  

**User response:** Contact your system administrator. Your administrator should install code page *name* on instance *name*.

**DBA4741E**  
The client code page *name* is not available on instance *name*, at node *name*.  
smcode: Error-code  

**Explanation:** The listed code page has not been installed on instance *name*, at node *name*.  

**User response:** Contact your system administrator. Your administrator should install code page *name* on instance *name* at node *name*.

**DBA4742E**  
The Administration Server *name* cannot be found.  
smcode: Error-code  

**Explanation:** Possible reasons for this problem include: 1) Remote instance *name* is not valid. 2) Hostname is not valid.  

**User response:** Contact your system administrator.

**DBA4743E**  
The Administration Server *name* detected a problem.  
sqcode: Error-code.  
smcode: Error-code  

**Explanation:** The Administration Server *name* had an internal error.  

**User response:** Contact your system administrator.

**DBA4744E**  
The Control Center could not communicate with the parallel tools on instance *name* at node *name*.  
Try starting communications.  
smcode: Error-code  

**Explanation:** Communications may not have been started.  

**User response:** Contact your system administrator.

**DBA4745E**  
The TCP/IP port configuration between the Control Center and its listener (db2cclst) on instance *name* at node *name* is not correct.  
smcode: Error-code  

**Explanation:** The /etc/services file at node *name* might contain incorrect information.  

**User response:** Contact your system administrator. Your administrator should check that the port name of db2ccmsrv is entered correctly in the /etc/services file on node *name*.

**DBA4746E**  
Instance node host name *name* is not valid on instance *name*.  
smcode: Error-code  

**Explanation:** The db2nodes.cfg file for instance *name* might contain incorrect information.  

**User response:** Contact your system administrator. Your administrator should validate the host name found in the db2nodes.cfg file for instance *name*.

**DBA4747E**  
The Performance Monitor did not receive a response from node *name* within the snapshot capture interval.  
smcode: Error-code  

**Explanation:** A performance or communications problem on the listed node is preventing a response from being sent, or the snapshot capture interval is not long enough to allow each node time to respond to the request.  

**User response:** Contact your system administrator. Your administrator can 1) Validate the performance on the listed node. 2) Increase the snapshot capture interval to allow more time for the node to respond to the snapshot request.

**DBA4748E**  
Logical node *name* on instance *name* is not valid.  
smcode: Error-code  

**Explanation:** The db2nodes.cfg file for instance *name* might contain incorrect information.  

**User response:** Contact your system administrator.

**DBA4749E**  
The Monitor Server on instance *name* is unable to establish communications with node *name*.  
smcode: Error-code  

**Explanation:** The communications subsystem may not have been started.  

**User response:** Start the db2cclst process on the specified node. If problem still persists, contact your system administrator.

**DBA4750E**  
The instance being switched to does not exist.  
smcode: Error-code  

**Explanation:** See the Administration Server error logs for more information.  

**User response:** Contact your technical service representative with the smcode.
Chapter 78. DBA5000 - DBA5499

DBA5006E  
`evname` is an Event Monitor that writes to a named pipe. Event Analyzer does not support PIPE Event Monitors.

**Explanation:** The Event Analyzer only handles traces produced by FILE Event Monitors.

**User response:** Use a FILE Event Monitor.

DBA5007E  
Event Monitor `event-monitor` does not exist.

**Explanation:** The Event Monitor names specified with the `-evm` option could not be found in the catalogs for the database specified with the `-db` option. The Event Monitor may have been dropped or you may be trying to connect to the wrong database.

**User response:** Make sure that the Database alias specified with the `-db` is properly cataloged and that the Event Monitor has not been dropped. If the latter is the case, re-create the event monitor.

DBA5250I  
The number of records retrieved exceeded the limits of the window. A partial list is displayed.

**Explanation:** The window height required to display the retrieved objects exceeds a system limit.

**User response:** You can reduce the number of objects displayed in the window by doing the following:
- If the “Include” choice is available on the “View” menu, you can specify a subset of the objects to display in the window. When you select “Include”, a window appears and prompts you for a sub set of the criteria.

DBA5300E  
Event Analyzer invocation error.

**Usage:**
```
db2eva [-db database-alias] [-evm evmon-name]
```

**Explanation:** The command parameters for the `db2eva` command are:
- `-db database-alias` specifies the database for which the Event Monitor is defined, as cataloged on the machine where the trace is analyzed.
- `-evm evmon-name` specifies the Event Monitor trace tables you want to analyze. The event monitor must be defined in the database specified in the `-db` parameter.

If you specify the database and event monitor names, `db2eva` connects to the database, and issues a ‘select target from sysibm.syseventmonitors’ to locate the table where the Event Monitor writes its trace. The Event Monitor and related tables must not have been dropped when using this mode.

If you do not specify any parameter, a dialog box will be opened to prompt for the database alias and the event monitor name you want to analyze.

**User response:** Re-issue the command with valid arguments.

DBA5311E  
Event Monitor invocation error.

**Usage:**
```
db2emcrt database-alias
```

**Explanation:** The command parameter for the `db2emcrt` command is:
- `database-alias` specifies the database for which the event monitors are to be created or analyzed, as cataloged on the machine the `db2emcrt` command is invoked. `database-alias` overrides the database name specified in the trace.

**User response:** Re-issue the command with valid arguments.

DBA5350E  
An error occurred while opening file `file-name`.

**Explanation:** The specified file could not be opened in read-only mode for an unknown cause.

**User response:** Check the spelling of the directory specified by the `-path` option, its access authority, and that it contains a non-empty, readable trace file called `00000000.evt`.

**NOTE:** The first trace file for an Event Monitor is always named `00000000.evt` and cannot be renamed.

DBA5351E  
File `file-name` cannot be found.

**Explanation:** There is no `00000000.evt` file in the directory specified by `-path`.

**User response:** Check the spelling of the directory specified by the `-path` option, its access authority, and that it contains the trace file `00000000.evt`.

**NOTE:** The first trace file for an Event Monitor is always named `00000000.evt` and cannot be renamed.

DBA5352E  
Path `path-name` cannot be found.
Explanation: The -path option specifies a directory that does not exist.

User response: Check the spelling of the directory specified by the -path option, its access authority, and that it contains the trace file 00000000.evt.

NOTE: The first trace file for an Event Monitor is always named 00000000.evt and cannot be renamed.

DBA5353E Access to param-1 was denied.

Explanation: The specified file could not be opened in read-only mode. The -path option may be specifying a directory to which you do not have sufficient access authority.

User response:
• Check the access authority to the directory specified by the -path option.
• Verify that no one has locked the specified file in exclusive mode.

DBA5354E The data cannot be read from file-name.

Explanation: The Event Monitor trace file contains unexpected data, or cannot be accessed.

The trace file was likely corrupted during transmission or has been removed.

User response: Transmit your trace files from your server again. When transmitting trace files from a remote server, ensure that the transmission is done in binary mode.

DBA5355E An Event Monitor log header could not be found in file-name.

Explanation: The first file written to by an Event Monitor is named 00000000.evt and contains a data structure that identifies the trace characteristics. This data structure could not be read. Possible causes:

• The trace file was corrupted.
• The trace file is empty. This can happen if the Event Monitor is active but, has not flushed its buffers yet.

User response:
• If the trace was transmitted from a remote server, retransmit, ensuring that the transmission is done in binary mode.
• If the trace file is empty, turn off the Event Monitor to force it to flush its buffer.

DBA5356E Byte order not valid in file-name.

Explanation: The Event Monitor log header (the first record written to a new trace) specifies whether the trace contains little-endian or big-endian (e.g., AIX) data. The value found in the trace file specified neither of these two supported types of data.
Chapter 79. DBA5500 - DBA5999

DBA5500E A system error has occurred. The Event Analyzer tool could not continue processing.

Explanation: For an unknown reason a system error has occurred when trying to initialize the application environment.

User response: Re-issue the command.

DBA5501W Do you want to delete the event files associated with the event monitor evname that you are removing?

Explanation: To delete the event files for the selected event monitor, click on OK. If you do not want to delete the event files, but still want the event monitor removed, click on NO. If you do not want to remove the event monitor, or delete the event files click on CANCEL.

DBA5502E No selection was made from the list of Event types. You must select one or more types from the list.

Explanation: When creating an event monitor, at least one Event type must be selected.

User response: Select one or more of the Event type check boxes from the Create Event Monitor window.

DBA5503I An Event monitor evname has been successfully created.

Explanation: The event monitor has been successfully created and has been added to the database list of event monitors.

User response: Click on OK to remove the message.

DBA5504W Some event monitors were not removed because their event files could not be deleted. See the messages page from the journal notebook for the list of event monitors not removed.

Explanation: Some of the selected event monitors may have been successfully removed, but others were not, because their associated event trace files could not be deleted.

This occurs when either event files are read-only, or they are being used by another active process.

User response: See the message page of the journal notebook for the list of event monitors that were not removed. To delete the files, end the process using them and check the access authority for the files. Then select the event monitor from the list of event monitors and choose remove from the menu.

DBA5505E Maximum file size was not specified.

Explanation: If maximum file size in 4K pages is selected on the create event monitor Options window, then the maximum size of the event files must be specified.

User response: Enter a maximum file size of between 1 and 2,147,483,647 4K pages, or you can select the No Maximum option. If the No Maximum option is selected, the maximum number of event files is 1.

DBA5506E Maximum number of files was not specified.

Explanation: If Maximum number of files is selected on the create event monitor Options window, then the maximum number of event files must be specified.

User response: Enter a maximum number of event files of between 1 and 2,147,483,647, or you can select No Maximum option.

DBA5507E Buffer size was not specified.

Explanation: An event monitor Buffer size in 4K pages must be specified.

User response: You must enter an event monitor buffer size of between 1 and 2,147,483,647 4K pages.

DBA5508W Do you want to delete the event files associated with the event monitors that you are removing?

User response: To delete the event files for the selected event monitors, click on OK. If you do not want to delete the event files, but still want the event monitors removed, click on NO. If you do not want to remove the selected event monitors, or delete the event files click on CANCEL.

DBA5509E The name entered for the event monitor is not valid.

Explanation: The name entered in the event monitor Name field contains one or more characters that are not allowed. An event monitor can contain alphanumerics and must begin with a letter.

User response: Remove from the name any characters
that are not alphanumeric and make sure the name begins with a letter.

**DBA5510E**  When trying to activate the monitor, the directory for its data files was not found.

**Explanation:** When activating an event monitor, the directory that was specified when the event monitor was created must exist. In order to flush its buffers, an event monitor needs an existing file and path. 

**User response:** Create the directory that was specified when creating the event monitor. Try to activate the event monitor again.

**DBA5511E**  Entry name is not valid because the value is out of the acceptable range.

**Explanation:** The values for an event monitor’s Maximum file size, Maximum number of files, and Buffer size must be between 1 and 2,147,483,647.

**User response:** Enter a value in the entry fields that is within the given range.

**DBA5512E**  The character character entered for the event monitor name is not allowed.

**Explanation:** A character entered in the event monitor name entry field is not a valid character for an event monitor name.

**User response:** Remove from the event monitor name any characters that are not alphanumeric and make sure the name begins with a letter.

**DBA5513E**  The dynamic link library “DB2EVA.DLL” could not be loaded successfully.

**Explanation:** During the initialization of the event analyzer the dll could not be loaded because the dll has been deleted or removed.

**User response:** Reinstall the event analyzer by selecting the performance monitor during the installation process.

**DBA5514E**  The event files for event monitor evname could not be deleted.

**Explanation:** The event files for the event monitor could not be deleted because the files are being used by an active process or are read-only.

**User response:** To delete the files, end the process that is using them and check the access authority for the files. Select the event monitor again and choose remove from the menu.

**DBA5515E**  The database alias name or database name dbname could not be found.

**Explanation:** The alias name that was entered on the command line has not been cataloged on this machine.

**User response:** Either catalog the alias on this machine and reenter the command or re-issue the command with a valid alias name.

**DBA5516W**  Viewing the trace for this event monitor may take some time. Do you wish to continue processing?

**Explanation:** The user has requested to view a large trace for an event monitor. Reading the files could take some time to complete.

**User response:** If you want to continue processing the trace click on OK. If you do not wish to continue processing the trace file then click on NO.

**DBA5517E**  The event monitor could not be started due to a reason code of reason-code. 

**Explanation:** The event monitor could not be started for the reason specified by reason-code:

1. The event monitor path is invalid.
2. The device, where the event monitor is to be started, is not ready.
3. Attachment to the admin server failed.

**User response:** To start the event monitor, make sure that the event monitor path is valid, the admin server started, and the proper authorities exist on the device. Click on OK.

If the problem persists, manually create the event monitor directory on the device and click on OK.

To create the event monitor without starting it, deselect the Start now check box and click on OK.

**DBA5518E**  The event monitor could not be started because its output directory could not be created.

**Explanation:** The directory could not be created for one of the following reasons.

1. Proper authorities do not exist for creating directories on the requested file system.
2. Create event monitor does not support directory creation on non-Intel platforms.
3. Cannot create a directory of greater than 8 characters on a FAT file system.

**User response:** Make sure the proper authorities exist for directory creation.

On non-Intel platforms create the event monitor output directory manually.
DBA5519I  Event monitor table cannot be found in the event source database.

Explanation:  The event monitor table that holds the event monitor records cannot be found in the source database specified.

User response:  Ensure that the event monitor table exists in the source database and the table name is in the SYSIBM.SYSEVENTTABLES.

DBA5520E  Event monitor control table cannot be found in the event source database.

Explanation:  The event monitor control table cannot be opened.

User response:  Ensure that the event monitor control table exists in the source database and the table name is in the SYSIBM.SYSEVENTTABLES.

DBA5521I  Connection to the database is not established. The event monitor list cannot be retrieved.

Explanation:  A connection to the database is not established.

User response:  Please make sure the database manager command has been issued. If the problem persists, contact IBM Service.
Chapter 80. DBA6000 - DBA6499

DBA6001I The replication subscription set, subscription-set, is in use. Please try again later.

Explanation: The Apply program is currently processing the replication subscription and this action cannot be deactivated. Wait until the Apply program has completed its processing and retry your command.
User response: No action is required.

DBA6002I The replication source, source-name-1, source-name-2, was defined successfully. To begin capturing changes to the replication source, start the Capture program from the command line.

Explanation: The Capture program requires a defined replication source in order to run.
User response: Make sure the Capture program is running.

DBA6003I The replication subscription was defined successfully. To begin replicating the subscription set, ensure that the Apply program has been started from the command line.

Explanation: The Apply program requires a defined replication source in order to run.
User response: Make sure the Apply program is running.

DBA6004I The replication subscription was successfully changed.

Explanation: This is for your information only.
User response: No action is required.

DBA6005I The replication sources were successfully removed.

Explanation: This is for your information only.
User response: No action is required.

DBA6006I The replication source, source-name, could not be removed.

Explanation: This is for your information only.
User response: No action is required.

DBA6007I The replication subscription, subscription-name, could not be removed.

Explanation: This is for your information only.
User response: No action is required.

DBA6008I The replication subscriptions were successfully removed.

Explanation: This is for your information only.
User response: No action is required.

DBA6009I file-name is locked by another action.

Explanation: The file is currently being used by another action.
User response: Wait until the action is completed and retry your command.

DBA6010I The join was successfully defined.

Explanation: This message is for your information only.
User response: No action is required.

DBA6012I The replication source was defined successfully. To begin capturing changes to the replication source, ensure that the Capture program has been started from the command line.

Explanation: The Capture program requires a defined replication source in order to run.
User response: Make sure the Capture program is running.

DBA6013I The replication subscription was successfully updated.

Explanation: This message is for your information only.
User response: No action is required.

DBA6014I The replication subscription was successfully cloned.

Explanation: This message is for your information only.
User response: No action is required.
<table>
<thead>
<tr>
<th>Message Number</th>
<th>Message Text</th>
<th>Explanation</th>
<th>User Response</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBA6015I</td>
<td>The SQL statements for this action have been saved in a file for future editing and execution.</td>
<td>This message is for your information only.</td>
<td>No action is required.</td>
<td></td>
</tr>
<tr>
<td>DBA6016I</td>
<td>The SQL script file has been run successfully.</td>
<td>This message is for your information only.</td>
<td>No action is required.</td>
<td></td>
</tr>
<tr>
<td>DBA6100I</td>
<td>The Apply program will only perform full refresh copies to this set.</td>
<td>This message is for your information only.</td>
<td>No action is required.</td>
<td></td>
</tr>
<tr>
<td>DBA6101E</td>
<td>The table, table-name-1.table-name-2, cannot be found.</td>
<td>The control table specified could not be located in the database or was accidentally dropped.</td>
<td>Create the control table. See the Tables Chapter for more details.</td>
<td></td>
</tr>
<tr>
<td>DBA6102I</td>
<td>This action may take some time to complete. Please wait...</td>
<td>This message is for your information only.</td>
<td>No action is required.</td>
<td></td>
</tr>
<tr>
<td>DBA6103E</td>
<td>The SQL file, file-name, cannot be run.</td>
<td>The user may have edited the SQL statement file for a replication action, such as defining a replication source, and there is an error in the SQL statement file.</td>
<td>Correct the error in the SQL statement file and run the file again.</td>
<td></td>
</tr>
<tr>
<td>DBA6104W</td>
<td>No unique prefix character was found. The prefix character will be set to NULL.</td>
<td>A prefix character is an alphabetical or numerical character used to distinguish before-image columns in the source table. If a prefix character cannot be assigned because all possible prefix characters are already in use, you will receive this warning. The change data table cannot be created.</td>
<td>Make sure you enter the correct file name and that the file is in the correct subdirectory. If the file is engaged in another process, terminate the process and reenter the file name.</td>
<td></td>
</tr>
<tr>
<td>DBA6105E</td>
<td>The field, field-name, requires your input.</td>
<td>The user has not filled in a required field.</td>
<td>Specify a parameter and select OK.</td>
<td></td>
</tr>
<tr>
<td>DBA6106E</td>
<td>The replication action does not currently support this database system.</td>
<td>The replication action must support your database system in order to run.</td>
<td>Contact your IBM Service representative.</td>
<td></td>
</tr>
<tr>
<td>DBA6107E</td>
<td>Please enter a different value for the field, field-name.</td>
<td>When cloning a replication subscription, the target server and Apply qualifier fields must be different from the original target server and Apply qualifier fields.</td>
<td>Enter a different target server name or Apply qualifier and select OK.</td>
<td></td>
</tr>
<tr>
<td>DBA6108E</td>
<td>The action cannot be completed due to a syntax error.</td>
<td>The SQL statement contains a syntax error.</td>
<td>Check the SQL reference for the proper syntax. For subscription actions, check the where clause, the rows page, or the CREATE column. For define-join actions, check the CREATE VIEW statement.</td>
<td></td>
</tr>
<tr>
<td>DBA6109E</td>
<td>SHOW COLUMNS action cannot be completed.</td>
<td>The SHOW COLUMNS action requires that a table be selected.</td>
<td>Select a table from the Selected Table list box and then press the SHOW COLUMNS key.</td>
<td></td>
</tr>
<tr>
<td>DBA6110E</td>
<td>The SQL file, file-name, cannot be opened.</td>
<td>The SQL file either does not exist, is in the wrong subdirectory, or is engaged in another process.</td>
<td>Make sure you enter the correct file name and that the file is in the correct subdirectory. If the file is engaged in another process, terminate the process and reenter the file name.</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
<td></td>
<td></td>
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<tr>
<td>--------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBA6111E</td>
<td>The file, file-name, cannot be opened.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Explanation:</strong></td>
<td>The file either does not exist or is in the wrong subdirectory.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Make sure you enter the correct file name on the Replication page of the Tool Settings notebook.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBA6112I</td>
<td>You have chosen to substitute user-defined values to define replication objects in the Tool Settings notebook. Please supply these values in the file file-name.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Explanation:</strong></td>
<td>This message is for your information only.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>No action is required if you have already supplied user-defined values in the file.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBA6113E</td>
<td>keyword is an invalid keyword in file file-name.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Explanation:</strong></td>
<td>The specified keyword is invalid and may be a typographical error.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Use the keywords as given in the default file &quot;DPREPL.DFT&quot;.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBA6114E</td>
<td>The value for keyword keyword cannot be found in file file-name.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Explanation:</strong></td>
<td>The value of this keyword is required for this action to complete.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Specify a value for this keyword in the file.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBA6115E</td>
<td>None of the items in the column list were selected. This action cannot be completed.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Explanation:</strong></td>
<td>At least one item in the column list must be selected for this action to complete.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Select one or more items from the column list and press OK.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBA6116E</td>
<td>The value for keyword keyword is invalid in file file-name.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Explanation:</strong></td>
<td>The value of this keyword is either too long, an incorrect data type, or in an incorrect format.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Correct the value and invoke the action again.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBA6117W</td>
<td>The before-image column column-list was truncated to number bytes because the length of the original column was at the database limit before being appended to the before-image prefix before-image-prefix.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Explanation:</strong></td>
<td>The length of the column from the original source table was at the database limit. When appended to the before-image prefix, some characters at the end of the column name were truncated to fit the database limit. This new before-image column name may no longer be unique because the truncated characters may be needed to guarantee a unique name.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Uncheck the before-image column when the truncated name is not unique and rerun the action.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBA6118W</td>
<td>Datatypes datatype-list are not supported on the database database. The datatypes will be converted to datatype-list in the SQL script.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Explanation:</strong></td>
<td>Some datatypes from the source are not supported on the named database. However, equivalent datatypes could be found on the named database. The generated SQL statements will use the converted datatypes in place of the unsupported datatypes.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>No action is necessary if the converted datatypes are acceptable. If they are not acceptable, uncheck the target columns and rerun the action.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBA6119W</td>
<td>Datatypes datatype-list are not supported on the database database. The columns containing these datatypes will be excluded from the SQL script.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Explanation:</strong></td>
<td>Some datatypes from the source are not supported on the named database. No equivalent datatypes could be found on the named database. The generated SQL statements will exclude any columns containing the unsupported datatypes.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Contact IBM service if you would like to recommend a specific datatype be supported on the named database in the future.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBA6120W</td>
<td>The source table table-name was not defined with a primary key. Specify a primary key for the target table in the Target Columns page.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Explanation:</strong></td>
<td>The define subscription action could not find a qualifying primary key for the source table, therefore the define subscription could not determine an appropriate primary key for the target table.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Specify a primary key for the target table in the Target Columns page of the Advanced notebook.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
DBA6121W • DBA6125W

**DBA6121W**  An incompatible Java Runtime Environment has been detected. Please verify that the required level of the Java Runtime Environment has been installed.

**Explanation:** The installed Java runtime is not supported by the DB2 Java application.

**User response:** Refer to the Control Center readme.htm for information on prerequisite Java Runtime Environment levels.

---

**DBA6123E**  The requested action cannot be performed because the schema names of the objects exceed `number` bytes in length.

**Explanation:** The data replication components support schema names up to 128 bytes in length. You tried to perform a replication action against objects that have longer schema names. The action cannot be performed.

**User response:** Select objects whose schema names are 128 bytes or less, and perform the action again.

---

**DBA6124W**  The requested action cannot be performed on some of the objects you selected because the schema names of the objects exceed `number` bytes in length.

**Explanation:** The data replication components support schema names up to 128 bytes in length. You tried to perform a replication action against some objects that have longer schema names. The action will be performed only on those objects whose schema names are 128 bytes or less.

**User response:** No action is required.

---

**DBA6125W**  The field `field`, contains a schema name exceeding `number` bytes in length. The schema name will be truncated to `number` bytes.

**Explanation:** The data replication components support schema names up to 128 bytes in length. The schema name in the field exceeds 128 bytes and it will be truncated to 128 bytes.

**User response:** No action is required. However, you can type a shorter schema name in the field, if you do not want the existing schema name truncated.
Chapter 81. DBA7000 - DBA7499

DBA7000E  The license for product-name could not be removed. RC = return-code.

Explanation: The license could not be removed. Either the license could not be found in the nodelock file or the nodelock file could not be updated.

User response: Check the permissions of the nodelock file and that the license exists in it.

The location of the file is platform specific:
- AIX - /var/ifor/nodelock
- Windows operating systems - $DB2PATH/license/nodelock
- All other operating systems - /var/lum/nodelock

DBA7001E  The license could not be added to the nodelock file. RC = return-code.

Explanation: There was an error transmitting the license file or installing the license.

User response: Please check the permissions of the nodelock file. The location of the file is platform specific:
- AIX - /var/ifor/nodelock
- Windows operating systems - $DB2PATH/license/nodelock
- All other operating systems - /var/lum/nodelock

Alternatively you can also add the license using the command line utility db2licm.

If the problem persists please contact IBM Service.

DBA7002E  The license certificate is invalid. Please try the command again with a valid license file. RC = return-code.

Explanation: The license certificate contained in the file specified does not contain a valid db2 license or is in an unrecognizable format.

User response: Please obtain a valid DB2 license certificate from your IBM representative or authorized dealer.

DBA7003W  The list of current users could not be retrieved. RC = return-code.

Explanation: The daemon or service that tracks the users is not functioning correctly or has not been started. You must have either the concurrent user policy or registered user policy activated.

User response: Turn on either the concurrent user policy or registered user policy and restart all the instances.

If the problem persists contact IBM Service.

DBA7004E  The registered user could not be removed from the registered user list. RC = return-code.

Explanation: The registered user list on the server could not be updated with the changes you have requested.

User response: Check to make sure the user exists and that this is a valid action for this product. If the problem persists contact IBM Service.

DBA7005E  The registered user could not be added. RC = return-code.

Explanation: The registered user list on the server could not be updated with the changes you have requested.

User response: Check to make sure the username is valid and ensure that the registered user policy is valid for this product. If the problem persists contact IBM Service.

DBA7006E  The license policy could not be updated. RC = return-code.

Explanation: The attempt to update the license policy for this product did not succeed.

User response: Restart the instance and the License Server using the command db2licd -xxx. On a Windows operating system, you can also restart the instance and the License Server using the Services Control Manager.

If the problem persists contact IBM Service.

DBA7007E  The statistics regarding license usage could not be retrieved. RC = return-code.

Explanation: Either the statistics are corrupt, there was a communication error, or no data is available. Data is generated on connects and disconnects after a policy is updated and the instances are restarted.

User response: If the statistics are corrupt you can remove the statistics database. This will remove all previously collected statistics. The location is platform specific and depends on where the product is installed.
- UNIX - DB2 installation directory/misc/db2licst
- Windows operating systems -DB2 installation directory\license\db2licst.dat
DBA7008I  The license policy will not take effect fully until the instances are restarted.
Explanation: When the instances are restarted it rereads the license configuration.
User response: Restart the instances on the server.

DBA7009E  This product product does not support the specified license policy. RC = return-code.
Explanation: The license policy specified is not available for use with this product.
User response: Specify a valid license policy.

DBA7010E  The License Center was unable to retrieve a list of products from the specified server. RC = return-code.
Explanation: The list of products on this server could not be obtained.
User response: Please restart the administration instance and the Control Center and try again. If the problem persists contact IBM Service.

DBA7011E  You do not have proper authority to perform the specified action.
Explanation: The user does not have permission to perform this operation.
User response: Please login with a userid that has the proper permissions to perform this command.

DBA7012E  No statistics are available for the specified time period.
Explanation: No statistics are available for the time period that you specified.
User response: Please enter a valid date range where statistics exist.

DBA7013E  The license certificate filename could not be found. Please try the command again with a valid license file. RC = return-code.
Explanation: The file specified does not exist or cannot be read.
User response: Please obtain a valid DB2 license certificate from your IBM representative or authorized dealer.

DBA7014E  Restart the Control Center and the administration instance and try the command again.
Explanation: Restart the Control Center and the administration instance and try the command again.
User response: If the problem persists please call IBM Service.

DBA7015E  The license for DB2 OLAP Server cannot be updated. The DB2 OLAP processes are currently active.
Explanation: DB2 cannot update the license for DB2 OLAP Server while DB2 OLAP Server is running.
User response: To update your OLAP license, please stop all OLAP processes and reinstall this DB2 license.

DBA7016E  The selected system does not have any instances specified.
Explanation: A valid DB2 instance for the selected system was not found. Verify that the selected system has at least one working DB2 instance.
User response: Catalog a valid DB2 instance for the selected system, restart Control Center and try the command again.

DBA7017E  No valid DB2 instances were found on the selected system.
Explanation: A valid DB2 instance for the selected system was not found. Verify that the selected system has at least one working DB2 instance.
User response: Create a valid DB2 instance on the selected system and try the command again.

DBA7018E  The number of processors on the server exceeds the number of processor entitlements for this product.
Explanation: You are exceeding the number of processors allowed by your license agreement.
User response: Purchase additional processor based entitlements from your IBM representative or authorized dealer and update your license using the db2licm command.

DBA7019E  No supported DB2 instances were found on the selected system.
Explanation: A supported DB2 instance for the selected system was not found. Verify that the selected system has at least one DB2 instance supported by this version of DB2 License Center.
User response: Create a supported DB2 instance on
the selected system and try the command again.

**DBA7100W** The file *file-name* could not be opened. The page *page-name* in the Information Center, which corresponds to that file, will not be shown.

**Explanation:** The data for the Information Center is stored in a number of NDX files. The file *file-name* might be missing from the correct directory.

**User response:** Ensure that the NDX files are installed on the file system.

Pages in the Information Center and their corresponding NDX files:
- Concepts - db2booksuc.ndx
- Tasks - db2tasksuc.ndx
- Reference - db2refsuc.ndx
- Troubleshooting - db2msgsuc.ndx
- Sample Programs - db2sampsuc.ndx
- Tutorials - db2webuc.ndx

**DBA7101E** The Information Center cannot be displayed because none of the Information Center's NDX files can be opened.

**Explanation:** The Information Center must read at least one NDX file to display any links to DB2 information.

The data for the Information Center is stored in a number of NDX files. The files might be missing from the file system.

**User response:** Ensure that the NDX files are located in the file system.

Pages in the Information Center and their corresponding NDX files:
- Concepts - db2booksuc.ndx
- Tasks - db2tasksuc.ndx
- Reference - db2refsuc.ndx
- Troubleshooting - db2msgsuc.ndx
- Sample Programs - db2sampsuc.ndx
- Tutorials - db2webuc.ndx

**DBA7102W** The file *file-name* is not formatted properly. The following lines were ignored: *line-numbers*. Ensure that these lines are formatted correctly.

**Explanation:** Each line in an NDX file must be in the form of a comma-separated list. Here is an example:

```
"IBM",1,"IBM Home Page",
http://www.ibm.com
```

The format of the list is as follows:

1. The name of the entry as it appears in the tree or list of items in the Information Center
2. The number representing the category of this entry
3. The description that appears on the status line when this item is selected
4. The full Web address indicating the location of the entry

**User response:** If you have edited this file, ensure that each line is formatted properly as follows:

- The name and description must start and end with double quotation marks.
- The name and description cannot contain any double quotation marks.
- Use commas as separators.
- The first entry in the file is a number corresponding to the number of entries in the file. You must update this number manually if you add or remove entries.

**DBA7200E** A maximum of 10 columns can be selected as input to a geocoder.

**Explanation:** More than 10 columns were selected as input to a geocoder.

**User response:** Move column names from the **Selected columns** box to the **Available columns** box until the **Selected Columns** box lists 10 names or fewer.

**DBA7201E** The database is not enabled to perform Spatial Extender operations.

**Explanation:** The database must be enabled for Spatial Extender before you can perform Spatial Extender operations.

**User response:** Right-click the database and select **Spatial Extender->Enable** from the menu.

**DBA7300W** Database *database-name* cannot be displayed because it does not have a valid node cataloged.

**Explanation:** There is no entry in the node directory corresponding to the node name provided for the specified database in the database directory.

**User response:** Ensure that there is a node catalog entry corresponding to the node at which the database was cataloged.

**DBA7301W** There are no instances to display in the Health Center.

**Explanation:** There are no entries in the node catalog and DB2INSTANCE is not set.
Catalog a node or specify the default DB2 instance on the client.

**DBA7302E** Alert information cannot be retrieved for instance `instance-name` or any of its objects because the instance catalog partition is down.

**Explanation:** The health monitor cannot be queried for alert information because the instance partition and monitor are down.

**User response:** Restart the database partition and try the action again.

**DBA7303E** Alert information cannot be retrieved for instance `instance-name` or any of its objects because the instance is down.

**Explanation:** The health monitor cannot be queried for alert information because the instance and monitor are down.

**User response:** Restart the instance and try the action again.

**DBA7304W** The object that was selected `object-name` is no longer present under the current toggle filter.

**Explanation:** The selected object changed state on the most recent refresh of the data. Therefore, the object is no longer viewable in the navigation view on the current toggle filter selection.

**User response:** Select another instance or database from the current toggle filter selection or select a different toggle button to view other states.

**DBA7305E** The alert that was selected no longer exists.

**Explanation:** The selected alert no longer exists in the health monitor.

**User response:** If the NOTIFYLEVEL setting is set to include the alert type, review the administration notification log to see details on the alert.

**DBA7306E** The alert no longer exists. Do you want to close the Details dialog?

**Explanation:** The current details dialog is showing information on an alert that no longer exists.

**User response:** Click on Yes to close the dialog, or click on No to leave the details dialog open.

**DBA7307W** The database manager configuration parameter value has changed since the dialog was last refreshed. Do you want to continue?

**Explanation:** The value for the configuration parameter was changed since this details dialog was last refreshed.

**User response:** Click on Yes to apply the change and overwrite the current setting, or click on No to return to the details dialog. If you click on No, refresh the contents of the dialog to see the current setting of the configuration parameter.

**DBA7308W** The database configuration parameter value has changed since the dialog was last refreshed. Do you want to overwrite the current value?

**Explanation:** The value for the configuration parameter was changed since this details dialog was last refreshed.

**User response:** Click on Yes to apply the change and overwrite the current setting, or click on No to return to the details dialog. If you click on No, refresh the contents of the dialog to see the current setting of the configuration parameter.

**DBA7309W** One or both threshold setting values have changed since the dialog was last refreshed. Do you want to overwrite the current values?

**Explanation:** The value for the warning and/or alarm thresholds have changed since the details dialog was last refreshed.

**User response:** Click on Yes to apply the change and overwrite the current setting, or click on No to return to the details dialog. If you click on No, refresh the contents of the dialog to see the current setting of the threshold values.

**DBA7310I** The threshold setting configuration updates have been applied.

**Explanation:** The threshold setting configuration updates have been applied.

**User response:** No action is required.

**DBA7311I** The configuration parameter update has been applied.

**Explanation:** The configuration parameter update has been applied. It can take some time before the changes take effect.

**User response:** No action is required.
The configuration settings have been reset to the original install default settings.

**Explanation:** The configuration settings have been reset to the original install default settings. These health indicator settings were used at product install time as the initial settings for the health monitor.

**User response:** No action is required.

The configuration settings for object `object-name` have been reset to the current object default health indicator settings.

**Explanation:** The configuration settings for the specified object have been reset to the current object default health indicator settings. These settings are based on the global health indicator default settings for the object type of the specified object.

**User response:** No action is required.

The updated configuration settings can be applied to existing objects. Do you want to propagate all changes to existing objects and overwrite current settings on those objects? If you select No, only the default settings will be updated.

**Explanation:** The new global default health indicator settings can be propagated to all existing objects that are affected based on the object type for the changed health indicators. The global settings can be updated without propagating changes to existing objects.

**User response:** Click on Yes to apply the global default health indicator updates and these changes to existing objects, or click on No to apply only the global default health indicator setting updates.

You must provide a script location that is accessible by all database partitions for the action to succeed on all database partitions. Do you want to continue creating the script?

**Explanation:** The script being defined must be accessible to all database partitions for the alert action to succeed on all database partitions.

**User response:** Click on Yes to continue creating the script, or click on No to return to the Script Details dialog.

You have chosen a start record value greater than the highest record number in the notification log. No records can be displayed.

**User response:** Decrease the start record number in the filter condition.

You have chosen an end record value greater than the highest record number in the notification log. Do you want to continue?

**Explanation:** The notification log has fewer records that are specified as the end record count. Log records can only be retrieved to the end of the file.

**User response:** Click on Yes to retrieve all the log records up to the end of the file, or click on No to change the filter condition.

There are currently `number` alerts in the Health Center. For more details, launch the Health Center from the toolbar or from the beacon on the status line.

**Explanation:** There are current alerts to be viewed in the Health Center.

**User response:** No action is required.

The selected instance `instance-name` has been dropped since the last refresh.

**Explanation:** The selected object no longer exists so alert information cannot be retrieved.

**User response:** Recreate the object and re-try the action.

The selected database `database-name` has been dropped since the last refresh.

**Explanation:** The selected object no longer exists so alert information cannot be retrieved.

**User response:** Recreate the object and re-try the action.

The object `object-name` for which this alert was generated has been dropped. The requested action cannot be completed.

**Explanation:** The selected object no longer exists so the action cannot be completed.

**User response:** Recreate the object and re-try the action.

Removing the contact from the contact list does not change any configured notification settings in the Task Center or Health Monitor.

**Explanation:** Any notification actions using the
removed contact will not be updated. These notification actions will fail.

**User response:** Remove any notification actions involving the removed contact.

---

**DBA7324I** Contact contact-name selected for notification no longer exists. The contact has been removed from the selected list.

**Explanation:** Invalid contacts have been removed from the list selected for health notification.

**User response:** No action required.

---

**DBA7325W** There are unsaved changes in the dialog. Do you want to discard the changes and refresh the details?

**Explanation:** You have chosen the refresh or reset option on this dialog. All unapplied changes will be discarded.

**User response:** Select No, if you want to retain the changes. Otherwise, select Yes to discard any unapplied changes.

---

**DBA7326E** No scheduler systems could be found. Task actions cannot be specified.

**Explanation:** No scheduler systems are cataloged in the admin node directory. Therefore, no tasks can be located for the Select Tasks dialog.

**User response:** Ensure the DB2 Administration Server for the scheduler system is cataloged in the admin node directory.

---

**DBA7327I** The configuration parameter updates have been applied. These changes to the global object type defaults do not affect existing settings for specific database objects.

**Explanation:** The updated configuration settings apply only to the global default health indicator settings. If you have previously specified settings for a health indicator on a particular object, those settings will not be affected by these changes.

**User response:** No action is required.

---

**DBA7328I** Evaluation has been disabled on the health indicator for the selected alert. The health indicator will not be evaluated on the Health Monitor refresh.

**Explanation:** The alert configuration for the health indicator of the selected alert has been updated to disable evaluating thresholds or states. This change will not be reflected until the next time the health monitor refreshes.

**User response:** No action is required.

---

**DBA7329W** Task task-name cannot be found in the task metadata. Task name is shown as task-id-number.task-suffix-number.

**Explanation:** The Select Actions dialog retrieves the task name for task actions from the task metadata. There was no task matching the task id number and suffix number in the task metadata so a task name cannot be displayed in the dialog.

**User response:** Check that the task exists in the metadata. If it has been deleted, update the action for the health indicator with the correct task id number and suffix number.

---

**DBA7330E** The action cannot be completed on this instance because its remote instance name is not known.

**Explanation:** The remote instance name field is an optional parameter and was not specified. To perform this action on a remote instance, the remote instance name must be known.

**User response:** Drop and recatalog the instance specifying the REMOTE_INSTANCE parameter.

---

**DBA7331W** There are one or more orphaned contacts in the health notification contact list for the instance instance-name.

**Explanation:** An orphaned contact is a contact that exists in the health notification contact list but is not defined in the contact list stored on the system specified by the CONTACT_HOST configuration parameter of the DB2 administration server.

Currently, there is at least one orphaned contact in the health notification contact list for the instance instance-name.

**User response:** If you do not need the orphaned contacts any more, delete them. Otherwise, redefine them so that they will receive health alert notifications. You can use the Troubleshoot Health Alert Notification wizard to perform these actions.

---

**DBA7332W** The filter for the monitoring task monitoring-task-name is too complex to be displayed.

**Explanation:** The filter for the monitoring task monitoring-task-name is too complex to be displayed in the Set Up Activity Monitor wizard. As a result, you will not be able to view or modify the filter using the Set Up Activity Monitor wizard.

**User response:** To view the filter, query the view SYSTOOLS.AM_TASKS. To modify the filter, call the stored procedure SYSPROC.AM_SAVE_TASK.
### Chapter 82. DBA7500 - DBA7999

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Explanation</th>
<th>User response</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBA7500N</td>
<td>The threshold value specified is not within the threshold range.</td>
<td>The threshold value specified is not valid. It has been reset to its previous value.</td>
<td>Specify a value within the valid range.</td>
</tr>
<tr>
<td>DBA7501N</td>
<td>The configuration parameter value specified is not within the valid range.</td>
<td>The configuration parameter value specified is not valid. It has been reset to its previous value.</td>
<td>Specify a value within the valid range.</td>
</tr>
<tr>
<td>DBA7502N</td>
<td>The specified configuration parameter value is not valid.</td>
<td>The configuration parameter value specified is not valid. It has been reset to its previous value.</td>
<td>Specify a valid configuration parameter value.</td>
</tr>
<tr>
<td>DBA7503N</td>
<td>The specified threshold value is not valid.</td>
<td>The threshold value specified is not valid. It has been reset to its previous value.</td>
<td>Specify a valid number.</td>
</tr>
<tr>
<td>DBA7504N</td>
<td>An instance attachment is required to invoke Memory Visualizer.</td>
<td>Memory Visualizer requires an instance attachment in order to be able to display the memory utilization and allocation.</td>
<td>Select or specify a version 8.1 instance or higher.</td>
</tr>
<tr>
<td>DBA7505N</td>
<td>The action is not currently available with this version of the DB2 server.</td>
<td>The Control Center client and the DB2 Server are at different levels. The requested action is not available for the current level of the DB2 server. The DB2 server must be at level db2-version.</td>
<td>Upgrade the DB2 server to the required level.</td>
</tr>
<tr>
<td>DBA7506W</td>
<td>The action is not currently available with this version of the database. For this action, the database must be at level db-version.</td>
<td>The requested action is not available because the DB2 Administration Server is not started or because the license is not installed.</td>
<td>Ensure the DB2 Administration Server is started and that the required license is installed.</td>
</tr>
<tr>
<td>DBA7510W</td>
<td>A satellite control database could not be found for the instance instance.</td>
<td>A satellite control database does not exist in instance instance, or it is not cataloged in the database directory.</td>
<td>To work with a satellite control database in instance instance, ensure that it is created and cataloged in the database directory. Or you can work with satellite control databases in other instances (if any).</td>
</tr>
<tr>
<td>DBA7514W</td>
<td>Since the database is a down level server, new options that are not available in previous versions have been</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
DBA7516N  •  DBA7613W

removed or disabled.

Explanation:  Since you are connected to a down level server, the new options that are not available on your server version have been disabled or are no longer available.

User response:  Complete the dialog, and run the command.

---

DBA7516N  Memory Visualizer could not find the specified data file.

Explanation:  The specified file does not exist or it is an invalid Memory Visualizer data file.

User response:  Verify that the file name specified is correct.

---

DBA7517N  Memory Visualizer could not write to the specified data file.

Explanation:  Memory Visualizer could not save the data file to the specified path and file name.

User response:  Verify that the specified path exists and that the file permissions are correct.

---

DBA7604N  No storage management snapshot for the current database partition group can be found.

Explanation:  To take a storage management snapshot, from the Control Center, expand the object tree until you find the database partition group object. Right-click the database partition group object and select Manage Storage from the pop-up menu.

User response:  Choose a different option on the Redistribute Strategy page to proceed with the redistribute wizard, or close the wizard and take a storage snapshot first before continuing with the redistribute operation.

---

DBA7608N  An error occurred when attempting to create the registry for stepwise redistribute settings for database-name.database-partition-group-name.

Explanation:  Without the registry records the stepwise redistribute tasks will fail.

User response:  Verify your file permissions and recreate the redistribute settings registry records using the Wizard.

---

DBA7609W  The database partition group is not partitioned.

Explanation:  The current database partition group contains only one database partition.

User response:  There is no need for running redistribute utility for it.

---

DBA7610W  The table is not distributed.

Explanation:  The table is defined under a database partition group which contains only one database partition.

User response:  No data distribution file is created for the given table.

---

DBA7611N  The stepwise redistribute property type is not valid.

Explanation:  The requested stepwise redistribute property entry cannot be retrieved or updated.

User response:  Enter a valid property type.

---

DBA7612N  An error has occurred when accessing file.

Explanation:  The possible reasons include:

- File format error
- Communication error
- Memory allocation error when reading from file

User response:  Fix any format errors in the file. Check the db2diag log file for more information to help resolve the communication or memory allocation errors. Rerun the application.

---

DBA7613W  Affected tables within the database partition group may be locked and unavailable for long periods of time.

Explanation:  Redistribution can be a log-intensive activity.

User response:  It is recommended to run redistribute on a test database before running it on your production system to determine how long the redistribution will take.

To minimize the risk of running out of active log space during a redistribute, it is recommended that you perform some or all of the following actions:

- Reduce or eliminate other log-intensive database activities
- Use infinite logging
- Use stepwise redistribution as recommended by the Wizard
Affected tables within the database partition group may be locked and unavailable for long periods of time when redistributing multiple database partition groups.

**Explanation:** Redistribution can be a log-intensive activity.

**User response:** It is recommended to run redistribute on a test database before running it on your production system to determine how long the redistribution will take.

To minimize the risk of running out of active log space during a redistribute, it is recommended that you perform some or all of the following actions:

- Reduce or eliminate other log-intensive database activities
- Use infinite logging
- Schedule the redistribution of each database partition group to happen at a different time to minimize contention for available log space
- Use stepwise redistribution as recommended by the Wizard

One or more tables required by the application are not defined with the expected definition.

**Explanation:** The tables the application is trying to access do not match the expected definition. This may be caused by one or more of the following problems:

- Table does not exist
- Table column definition is not the same as expected

**User response:** The tables may have to be dropped and recreated with the appropriate definition. If this error is being encountered during a drop, then you can force the tables to be dropped by specifying the FORCE option in the drop command.

Invalid partition weight for stepwise redistribute operation.

**Explanation:** The value of the partition weight must be between 0 to 32767.

**User response:** Enter an integer within the valid range and try again.

One or more input parameters do not contain valid values expected by the routine.

**Explanation:** This may be caused by one or more of the following problems:

- Numerical parameter is out of the expected range
- Object referenced by a parameter may no longer exist

**User response:** Verify your input parameters with the routine specification, and try again.

Verify that all databases at instance `instance-name` are cataloged.

**Explanation:** When adding database partitions to an instance, all temporary table spaces for all databases must be altered with new containers on the new database partitions. A database must be cataloged at that instance for the Add Database Partition wizard to detect its temporary table spaces.

**User response:** Review the list of databases on the first page of the Add Database Partition wizard.

If there are any databases missing:
1. Close the wizard.
2. Close the Add Database Partitions launchpad.
3. Add the missing databases to the databases folder in the Control Center.

If there are databases listed that do not actually exist at the instance, remove them from the databases folder in the Control Center.

Verify that all databases at instance `instance-name` are cataloged.

**Explanation:** When dropping database partitions from an instance, all data in all databases needs to be moved off the affected database partitions. A database must be cataloged at that instance for the Add Database Partition wizard to detect its database partition groups.

**User response:** Review the list of databases in the Drop Database Partition from Database Partition Groups window.

If there are any databases missing:
1. Close the window.
2. Close the Drop Database Partitions launchpad.
3. Add the missing databases to the databases folder in the Control Center.

If there are databases listed that do not actually exist at the instance, remove them from the databases folder in the Control Center.

There is no distribution key defined for the given table.

**Explanation:** A distribution key is a column (or group of columns) that is used to determine the database partition in which a particular row of data is stored. Tables without a distribution key are only allowed in single-partition database partition groups. Without a distribution key, a data distribution file cannot be generated, and data distribution analysis cannot be performed.

**User response:** Altering the distribution key can only
be done to a table whose table space is associated with a single-partition database partition group.

You can add or drop distribution keys, using the ALTER TABLE statement.

You can also use the Design Advisor to migrate from a single-partition to a multiple-partition database. Search the Information Center for a topic called: "Using the Design Advisor to migrate from a single-partition to a multiple-partition database".

---

**DBA7621W** Tables require distribution keys before they can be redistributed from one to many database partitions. Review the database design before moving from one to many database partitions.

**Explanation:** A distribution key is required to partition table data across a set of database partitions.

Tables without a distribution key are only allowed in single-partition database partition groups.

**User response:** Use the Alter Table notebook to add distribution keys to all tables that will be partitioned.

Consider creating different database partition groups. Usually, smaller tables can stay on a small number of database partitions, even just one, while larger tables should be distributed across all or most of the database partitions.

Altering the distribution key can only be done to a table whose table space is associated with a single-partition database partition group.

You can add or drop distribution keys, using the ALTER TABLE statement.

You can also use the Design Advisor to migrate from a single-partition to a multiple-partition database. Search the Information Center for a topic called: "Using the Design Advisor to migrate from a single-partition to a multiple-partition database".

---

**DBA7627N** Unable to load snapshot data.

**Explanation:** The selected snapshot no longer exists.

**User response:** Select a different snapshot from the Current Snapshot list on the Storage Management toolbar.

If no other snapshot exists, you can capture a new snapshot by right clicking on a database, database partition group, or table space, and selecting the Capture Snapshot menu option.

---

**DBA7628N** Drop Database Partition task must start after the last data redistribution is complete. The last redistribution task is scheduled to start at start-date start-time.

**Explanation:** All data redistribution tasks must be completed before the Drop Database Partition task can run. Redistribution moves the data off the database partitions that will be dropped.

**User response:** Choose a new start time for the Drop Database Partition task or just save it to the Task Center and run it manually once all the redistribution tasks are complete.

---

**DBA7630W** The following hosts could not be found: host-names.

**Explanation:** Add Database Partition will fail if these host names cannot be found on the network. Host names specified must refer to existing systems at the time that this Add Database Partition task is scheduled to execute.

**User response:** Verify that all of the listed host names are correct. Ensure that the specified host names exist when this task is scheduled to execute.

---

**DBA7631W** The instance instance-name will be stopped and restarted when this task is run.

**Explanation:** The script to be executed contains the following commands:

db2stop force
db2start

This will stop the database instance, refusing access to all connected applications. All databases in this instance will not be available while the instance restarts.

**User response:** Run this task, which will restart the instance at the scheduled time, or schedule the task to run at a different time, or save the task to the Task Center and run it later.

---

**DBA7632N** The database partitions database-partitions cannot be removed from the following database partition groups partition-groups.

**Explanation:** All database partition groups must have at least one database partition.

**User response:** When altering a database partition group, you must keep at least one database partition in the database partition group. If you do not want any database partitions in the database partition group, you must drop that database partition group and lose any existing data.

---

**DBA7633N** The database partitions partition-names cannot be dropped because they are catalog partitions for one or more databases.

**Explanation:** A catalog partition cannot be dropped without first dropping the corresponding database. On
Windows systems, you cannot drop database partition 0.

**User response:** Select one or more other database partitions to drop from the instance, or drop the databases for the catalog partition you wish to drop before trying to drop the database partition.

---

**DBA7634N** The container name *container-name* is invalid.

**Explanation:** The container name must be a valid path if the container type is directory or file, or a valid raw device if the container type is raw device.

**User response:** Redefine the container name to a valid path or raw device then attempt to change it, or add a new container and then remove the invalid one.

---

**DBA7666W** Configuration changes have been made for the previously selected database partition. Do you want to save the changes?

**Explanation:** Another database partition was selected, but the configuration changes to the previously selected database partition have not been saved.

**User response:** Click Yes to obtain the configuration parameter values for the next database partition and save the changes that were specified for the previously selected database partition.

Click No to obtain the configuration parameter values for the next database partition and discard the changes that were specified for the previously selected database partition.

Click Cancel to go back to the configuration parameter values for the previously selected database partition.

---

**DBA7900N** The SYSPROC.ALTOBJ stored procedure input parameter *parameter* is invalid.

**Explanation:** An invalid parameter value was specified.

**User response:** Reissue the stored procedure call with valid parameter values:

- parameter 1 (IN), execModeName, choose from one of the following six values: 'GENERATE', 'VALIDATE', 'APPLY_CONTINUE_ON_ERROR', 'APPLY_STOP_ON_ERROR', 'UNDO' and 'FINISH'
- parameter 2 (IN), sqlStmt, valid CREATE TABLE DDL is expected
- parameter 3 (IN/OUT), alterId, use -1 if no alter plan and ID has been previously generated, use the previously generated integer id, if a existing plan is to be followed
- parameter 4 (OUT), msg, use ? in the call statement

---

**DBA7901W** There has been a request to transform column *column-name* from source type *source-type* to target type *target-type*.

However, there is no default casting function available.

**Explanation:** The stored procedure attempts to use built-in scalar column functions to transform the existing data in the table from its source type into its target type. There is no built-in column function that can perform the data type transformation requested. Ensure that a UDF is created to transform the data, otherwise the existing data may not be transferred to the new table.

**User response:** If you have a column function that can transform the data to its target type, update the SYSTOOLS.ALTOBJ_INFO table with the following statement:

```sql
UPDATE SYSTOOLS.ALTOBJ_INFO_V
SET SQL_STMT='edited SELECT statement'
WHERE ALTER_ID='<alterId>'
AND SQL_OPERATION='SELECT',
AND EXEC_MODE LIKE '_1____'
```

Alternatively, change the target column type specified in the third parameter, so that there is a built-in column function that can be used for data transformation. Then call the stored procedure again with the new input.

---

**DBA7902N** The table to be altered contains at least one column data type that is not supported by the SYSPROC.ALTOBJ stored procedure.

**Explanation:** DATALINK type, structured type UDTs, and reference type UDTs are not supported. The SYSPROC.ALTOBJ stored procedure cannot be used to alter a table containing non-supported column data types.

**User response:** Do not attempt to alter a table containing non-supported column data types.

---

**DBA7903N** The table type is not supported by the SYSPROC.ALTOBJ stored procedure.

**Explanation:** The following types of tables cannot be altered using SYSPROC.ALTOBJ:

- Materialized Query Tables.
- Type tables or a tables that are the scope of any existing reference column.
- Remote tables referenced by a nickname.
- Tables with activated row or column level access control.
- Tables protected with row level LBAC.

**User response:** Do not attempt to alter the table using the SYSPROC.ALTOBJ stored procedure.
**DBA7904N**  The user does not have *authority-name* authority, which is required to run the SYSPROC.ALTOBJ stored procedure.

**Explanation:** DBADM authority is required to run the SYSPROC.ALTOBJ stored procedure.

**User response:** Obtain the necessary authority before running the stored procedure.

**DBA7905N**  The drop column action cannot be performed at the same time as adding or renaming columns.

**Explanation:** When dropping existing columns, column names are used to match the existing columns to their new definitions. When adding or renaming columns, the column index is used to match the existing and the new columns.

**User response:** The drop column operation must be attempted separately from adding or renaming column operations, however you can add and rename columns at the same time. The sequence of the existing columns cannot be changed using alter.

If you need to perform more than one type of alter operation, the SYSPROC.ALTOBJ must be called multiple times, one for each compatible alter operation group using different DDLs.

**DBA7906N**  The number of SQL statement generated for the alter process exceeds the expected limit.

**Explanation:** This may occur when a large number of related objects for the table being altered, such as triggers, aliases, views, SQL stored procedures, and materialized query tables.

**User response:** The SYSPROC.ALTBJ stored procedure cannot be used to alter the given table.

**DBA7907W**  The alter process completed with errors.

**Explanation:** This warning may occur when there are related objects of the table that are dependent on the columns that have been changed, or the existing data cannot be transformed into the their target data type, or conform to the new constrains.

**User response:** Use the SYSPROC.ALTBJ stored procedure with the following parameter inputs so that the related objects can be recreated.

```
CALL SYSPROC.ALTBJ('UNDO', CAST (NULL AS VARCHAR(2)), alterID, ?)
```

Or examine the errors in the SYSTOOLS.ALTOBJ_INFO_V, update the SQL statements that caused runtime error, and run the stored procedure again in APPLY mode.

**DBA7908E**  Some of the functions are not available because a set of stored procedures has not been installed for *subsystem-name*.

The following stored procedures may be missing: *stored-procedures*.

**Explanation:** The Control Center could not perform any of the following:
- Call SYSPROC.DSNUTILS to determine which utilities are installed.
- Call SYSPROC.DSNWZP to retrieve the subsystem parameters.
- Locate at least one of the OS/390 Enablement stored procedures.

**User response:** Ensure that the OS/390 Enablement stored procedures and DB2 stored procedures DSNWZP and DSNUTILS are installed and that the activation steps were performed. See the DB2 management Clients Program Directory for more information.
Chapter 83. DBA8000 - DBA8499

DBA8000E Unable to generate a new policy ID because the maximum number of allowable suffix IDs has been reached.

Explanations: Each policy has an internally-generated policy ID, which consists of a prefix and a suffix. The prefix is the subsystem identifier and the suffix is a number between 000 and 999. The Object Maintenance wizard fails to generate a new policy ID because the maximum number of allowable suffix IDs has been reached.

User response: Open the List Policies dialog to remove the policies that are no longer required, then attempt to create the new policy again.

DBA8001E An error was encountered during the initialization of the wizard.

Explanations: Some of the pages of the wizard were not initialized because an error was encountered while executing a DB2 Administration Server request to read the data set.

User response: Refer to the DB2 Administration Server’s First Failure Data Capture Log for additional information.

DBA8002E You have selected to modify the selection criterion for this work set. This change will cause all alert objects associated with this workset, identified using the current selection criterion, to be deleted from the health monitor maintenance tables.

Explanations: Modifying the selection criterion will change the set of objects to be evaluated by the health monitor. This invalidates the alert objects in the maintenance tables that were identified by the last health monitor evaluation for this work set, and they will be deleted from the health monitor maintenance tables.

User response: Click Yes to change the selection criterion for this work set, and to delete all alert objects currently associated with this work set from the health monitor maintenance tables.

Click No to keep the current selection criterion for this work set.

DBA8010N The tree view of the XML document cannot be built.

Explanations: Explanation: The document may be corrupted.

User response: Ensure that the document is well-formed and that the character encoding is set correctly.

DBA8011N The source view of the XML document cannot be built due to an internal error.

User response: Contact IBM.

DBA8012I The XML document is empty.

User response: No action is required.

DBA8013I The instance attach completed successfully.

User response: No action is required.

DBA8015N An I/O error occurred.

Explanations: An error occurred while attempting to open or close a file.

User response: Verify that the file name is valid and that the user has permission to access the file. Also check for any disk and operating system errors.

DBA8016N An I/O error occurred.

Explanations: An error occurred while attempting to read the result set.

User response: Ensure that the data source is available. If the data source is on a network, please ensure the network is working correctly.
Part 12. DBI Messages

This section contains the error messages which may be generated during installation and configuration of DB2 products. The messages are listed in numeric sequence.
An invalid argument was entered for the db2icrt command.

Explanation: You can create a DB2 database manager instance, including a DB2 pureScale instance by using the db2icrt command. You can also create an initial DB2 member and cluster caching facility (CF) as part of the creation of the DB2 pureScale instance by using the db2icrt command.

This message is returned when the db2icrt command is invoked with incorrect or missing parameters.

User response: Enter the command again using valid parameters.

Usage:

db2uit [-d] [-Q] [-D]
[-q <field>]
[-i <id>]
[-a <action>]
[-r <runlevels>]
[-p <process>]

Explanation: An invalid argument was entered for the db2uit command. Valid arguments for this command are:

-d turn debug mode on

-q query a field given the search parameters. Without -q, this becomes an update (if -i ID is already present) or insert. Valid fields: i, r, a, p

-i ID of the entry

-r run levels

-a action to perform

-p process to launch

-Q Quiet: no output

-D Delete record

FileName file to modify

RETURN CODES:

-q If no field matches, non-zero, zero otherwise

update/insert If file could not be updated, non-zero, zero otherwise

User response: Rerun the command with valid arguments.

Usage:

dlfmcrt [-b BackupDir]
-p PortName
-g DLFMGid
DLFMAdmin

Explanation: An invalid argument was entered for the dlfmcrt command. Valid arguments for this command are:

-h|-? display the usage information.

-p PortName is the port name or port number to be used by this instance.

-b BackupDir is the directory to be used to create the backup of the dlfm database in.

-g DLFMGid is the DLFM Admin group (this group must be a secondary group of DLFMAdmin)

DLFMAdmin is the name of the DB2 Data Links Manager Administrator.

User response: Enter the command again as follows:
dlfmcrt -p PortNum -g DLFMGid DLFMAdmin

libdb2-link detected. This DB2 copy may encounter problems loading its libraries.

Explanation: The db2ln command was run from another DB2 copy which creates symlinks in /usr/lib. These symlinks interfere with multiple DB2 copies running on the same system, whether those copies are the same version at different fixpacks, or different versions.

User response: From the installation path where the db2ln command was run, run the db2rmln command to remove these links.

An invalid argument was entered for the db2idrop command.

Explanation: The syntax for the db2idrop command is:
db2idrop [-h|-?] [-d] [-g] [-f] InstName

Valid arguments for this command are:
- **-h|-?**
  Display the usage information.
- **-d**
  Turn debug mode on.
- **-g**
  This parameter is required when db2idrop is used with a DB2 pureScale instance. Specifies that you want to drop the DB2 pureScale instance on all hosts. This parameter requires all DB2 members and all cluster caching facilities (CFs) are stopped on all the hosts in the DB2 pureScale instance.
- **-f**
  This parameter is deprecated. This parameter flags applications. If this flag is specified all applications using the instance will be forced to terminate. This parameter is not supported on a DB2 pureScale environment.

**InstName**

Specifies the name of the instance.

**User response:** Enter the command again using valid parameters.

---

**DBI1007I**

Usage: dlfnmupdt DLFMAdmin

**Explanation:** An invalid argument was entered for the dlfnmupdt command. Valid arguments for this command are:
- **-h|-?** display the usage information.

**DLFMAdmin** is the name of the DB2 Data Links Manager Administrator.

**User response:** Enter the command again as follows: dlfnmupdt DLFMAdmin

---

**DBI1014E**

Instance upgrade to 32-bit is not supported.

**Explanation:** Upgrading from 64-bit to 32-bit is not supported in this version.

**User response:** No actions required.
The `db2upgrade` command failed because an invalid argument was specified.

**Explanation:** You can upgrade a DB2 database manager instance to a new release by using the `db2upgrade` command. This message is returned when the `db2upgrade` command is called and invalid parameters or arguments are specified.

**User response:** Run the command again, specifying only valid parameters and arguments.

Program `program-name` is performing uninstallation. Please wait.

installFixPack is updating the DB2 product(s) installed in location `location`.

DB2 Administration Server DAS cannot be updated.

**Explanation:** An attempt to update the DB2 Administration Server DAS has failed because:
- This version of the dasupdt command cannot be used to update the DB2 Administration Server.
- To use this level of code for the DB2 Administration Server, an upgrade is required (instead of an update).

**User response:** To move the DB2 Administration Server up to this code level, issue the dasmigr command from the `<current DB2 installation path>/instance` directory to upgrade the DB2 Administration Server.

An invalid argument was entered for the `db2setup` command.

**Explanation:** The syntax for the `db2setup` command is:

```
db2setup [-h|-?] 
  [-t <TrcFile>] 
  [-r <RspFile>] 
  [-c] 
  [-l <LogFile>] 
  [-i <Lang>] 
  [-f <nobackup>]
```

Valid arguments for this command are:
- `-h|-?` Displays help information.
- `-t` Turns on the debug mode. The debug information is written to the file name specified.
- `-r` Validates the contents of the response file specified in the `-r` parameter. When specified, you must also specify the `-r` parameter.
- `-l` Writes the log to the file name specified. For root installations, the default log file is `/tmp/db2setup.log`. For non-root installations, the default log file is `/tmp/db2setup_<user>.log`, where `<user>` represents the user ID that owns the non-root installation. If the IBM Tivoli System Automation for Multiplatforms (SA MP) is being installed with `db2setup`, the install log file for the SA MP will be located in the same directory as DB2 log files.
- `-i` Displays the `db2setup` utility in the language specified.
- `-f` This applies to the non-root upgrade only. Force `db2setup` to not backup installation files when the components are updated. If you choose not to backup the files, the space requirement of the installation directory is reduced. However, choosing not to backup the files also means that if any errors occur, the DB2 installer will not be able to perform a rollback operation. In this case, you will need to manually clean up the files and reinstall the product.

**User response:** Enter the command again using valid parameters.

Usage:
```
db2imigrev [-h|-?] [-m Version] 
  InstName
```

**Explanation:** An incorrect argument was entered. Valid arguments for this command are:
- `-h|-?` display the usage information.
- `-d` turn debug mode on.
- `-m` specify DB2 version.

**Version**

is the version the instance will be migrated backward to.

**InstName**

is the name of the instance which will be migrated backward from version 8 to the previous version of DB2.
User response: Enter the command again as follows:

db2imigrev [-h|-?] InstName

Explanation: An incorrect argument was entered. Valid arguments for this command are:

-[-h|-?] display the usage information

-[-f] InstName

InstName is the name of the instance which will be migrated backward from version 8 to a previous version of DB2.

User response: Enter the command again as follows:

db2imigrev [-h|-?] [-f] InstName

User response: Enter the command again as follows:

db2ginfo [-h|-?] [-y]

[-c InstName]

[-a AuthType]

[-u FencedID]] OutputDir

Explanation: An invalid argument was entered for the db2ginfo command. Valid arguments for this command are:

-[-h|-?] display usage information.

-[-y] executes script (only shows warning otherwise).

-[-c InstName]

specify instance to test.

-[-a AuthType]

specify authentication type (SERVER, CLIENT, or SERVER_ENCRYPT).

-[-u FencedID]

specify fenced user ID.

OutputDir

is the directory where the output file, dbginfo.txt, will go.

User response: Enter the command again as follows:

db2ginfo [-h|-?] [-y]

[-c InstName] [-a AuthType]

[-u FencedID]] OutputDir

User response: Enter the command again as follows:

db2iauto [-h|-?] -on|-off InstName

Explanation: An incorrect argument was entered. Valid arguments for this command are:

-[-h|-?] display the usage information

-[-on|-off] enables or disables autostarting of an instance.

InstName

is the name of the instance.

User response: Enter the command again as follows:

db2iauto [-h|-?] -on|-off InstName

User response: Enter the command again as follows:

dascrt [-d] -u ASUser

Explanation: An invalid argument was entered for the dascrt command. Valid arguments for this command are:

-[-d]

enters debug mode, for use with DB2 Service

-[-u ASUser]

is the user the DAS will run under

User response: Enter the command again as follows:

dascrt -u ASUser

Confirm that user IDs and group names used to create the DB2 instance are valid.

User response: Enter the command again as follows:

dlfmsmfd [-h|-?] [-j] dlfsmntPt

Explanation: An invalid argument was entered for the dlfmsmfd command. Valid arguments for this command are:

-[-h|-?] display the usage information.

-[-j] modify the named file system from dlf to jfs on AIX or ufs on Solaris Operating Environment.

dlfsmntPt

Mount Point for Data Links Manager Filter file system (including the slash: /).

User response: Enter the command again as follows:

dlfmsmfd dlfsmntPt

User response: Enter the command again as follows:

dlfmsmfd [-h|-?] [-d]

Explanation: An invalid argument was entered for the command. Valid arguments for this command are:

-[-d]

enters debug mode, for use with DB2 Service
**User response:** Review the command syntax and enter the command again.

**DBI1028I** Usage:

dasupdt [-d] [-D] [-h|-?]

**Explanation:** An invalid argument was entered for the dasupdt command. Valid arguments for this command are:

- **-d**
  enters debug mode, for use with DB2 Service

- **-D**
  Moves the DAS from a higher code level on one path to a lower code level installed on another path.

- **-h|-?**
  Displays usage information.

**User response:** Enter the command again as follows:

dasupdt

**DBI1029I** Usage:

db2nqadm [start | stop]

**Explanation:** An invalid argument was entered for the db2nqadm command. Valid arguments for this command are:

- start start all NetQ services and daemon
- stop stop all NetQ services and daemon

You must specify one of the arguments.

**User response:** Enter the command again with the proper argument.

**DBI1030E** Kernel parameter name must be set to value.

**Explanation:** DB2 requires certain kernel parameters to be updated.

**User response:**
- Update all necessary kernel parameters.
- Reboot the system
- Try this command again

**DBI1031E** The installation operation failed because the selected product requires DB2 Server Edition to be installed first.

**Explanation:** There are multiple methods for installing DB2 database software, including the DB2 Setup wizard and the db2_install command.

This message is returned when a component or Feature is selected to be installed, but the selected component or Feature cannot be installed until after DB2 Server Edition is installed.

**User response:** Install DB2 Server Edition.

**DBI1032E** The product you selected can not be installed on AIX with a version less than 4.3

**Explanation:** The DB2 product you selected requires an AIX version that is 4.3 or greater.

**DBI1033E** The installation operation failed because the selected product requires DB2 Server Edition to be installed first.

**Explanation:** There are multiple methods for installing DB2 database software, including the DB2 Setup wizard and the db2_install command.

This message is returned when a component or Feature is selected to be installed, but the selected component or Feature cannot be installed until after DB2 Server Edition is installed.

**User response:** Install DB2 Server Edition.

**DBI1034W** Missing prerequisite package.

**Explanation:** One of the following packages has been selected for installation: “<pkg-name>” Either the installed “<pkg-names>” file set level is below “<name>” or it cannot be detected.

**User response:** Ensure the “<pkg-names>” file set is version ”<name>” or higher.

Your “<pkg-names>” level will not affect the installation of DB2.

**DBI1035E** Failed to mount file system File-System.

**Explanation:** An attempt to mount the specified file system has failed.

**User response:** Verify that the file system is defined. Correct any errors from the mount command and try again.

**DBI1036E** Failed to unmount file system File-System.

**Explanation:** An attempt to unmount the specified file system has failed.

**User response:** Correct any errors from the umount command and try again.

**DBI1037E** File system File-System does not exist.

**Explanation:** The file system specified is not defined on this workstation.

**User response:** Define the file system on the workstation and try again.
DBI1038E  File system File-System cannot be modified.

User response: Ensure that you have write permission to the system file that contains file system definition, and try again.

DBI1039W  Missing prerequisite package.

Explanation: One of the following packages has been selected for installation: "<name>" However, the installed "<name>" file set level is below "<name>"

User response: Install the "<name>" file set version "<name>" which is provided on the CD.

DBI1040I  The translated version of following message is not available on this system.

User response: The translated version of following message is not available on this system. Please refer to the “Installation.Notes” file in the PRODDIR/Readme/LOCALE directory, where PRODDIR is the product directory and LOCALE is the locale name. For example, the product directory is:

    /usr/opt/db2_08_xx, where xx is 01 or FPn, where n is the FixPak number
or /opt/IBM/db2/V8.x, where x is 1 or FPn, where n is the FixPak number

DBI1041E  File system inputMntPt cannot be converted to dlfs.

Explanation: The File-systems "/", "/var", "/usr", and "/tmp" cannot be converted to a dlfs File-system. This has been done to avoid booting problems that may arise by making these dlfs File-systems.

User response: Run the command again specifying a different File-system.

DBI1042E  Base File-system BaseFS cannot be changed to dlfs.

Explanation: On AIX, a File-system can be changed to dlfs only if its vfs is fsm or jfs. Dlfs is not supported for any other vfs.

User response: Run the command again on a jfs or fsm file system.

DBI1043E  The product you selected requires DB2 Administration Client installed first.

User response:
- Install DB2 Administration Client.
- Try to install the product again.

---

DBI1044E  The installation of the DB2 National Language Package cannot begin because there is no prerequisite DB2 product installed at this install location: install-path.

Explanation: The DB2 National Language Package can only be used to add national language support to installed DB2 products that include:

DBI1045I  An invalid argument was entered for the db2_install command.

Explanation: The syntax for the db2_install command is:


User response: Enter the command again using valid parameters.

DBI1046I  Usage:


Explanation:
- `-b` Specifies the path where the DB2 product will be installed. Mandatory when `-n` is specified. The length of the path is limited to 128 characters and is a full path name.
- `-p` Specifies the DB2 product to be installed. Mandatory when `-n` is specified.
- `-c` Specifies the location of the related DB2 National Language Pack (NLPACK). This parameter is mandatory when `-n` is specified.

The DB2 NLPACK locations needs to be provided explicitly if all of the following conditions are all met:
- The `-n` option is specified
- The current installation requires needs to install National Language (non-English) language supports
The DB2 NLPACK is neither on the DB2 DVD nor in the same subdirectory as the DB2 product being installed.

-1
Specifies the log file. The default log file is /tmp/doce_install.log$$, where $$ is the process id.

-t
Turns on the debug mode. The debug information is written to the file name specified.

-n
Specifies non-interactive mode. When specified, you must also specify -b, -p, and -c.

-L
Specifies national language support. To install multiple languages at the same time, this parameter can be specified multiple times. For example, to install both English and German, specify -L EN -L DE.

-h|-?
Displays help information.

User response: Reenter the command.

An invalid argument was entered for the db2_deinstall command.

Explanation: The syntax for the db2_deinstall command is:

db2_deinstall -F <featureName> | -a | -r <RspFile>
     [-l <logFile>]  
     [-b <installPath>]  
     [-t <trcFile>]  
     [s GPFS]  
     [s TSAMP]  
     [-f sqllib]  
     [-h|-?]  

For details about the parameters of the db2_install command, refer to the DB2 documentation for Linux, UNIX, and Windows.

User response: Enter the command again using valid parameters.

Usage:


Explanation:

-q
Specifies that this is a query of the local components. By default, only the visible components (features) are displayed unless -a is also specified. Mandatory when -p is specified.

-b
Mandatory when -q is specified and you are running the global db2ls command.

-c
Prints the output as a colon-separated list of entries rather than column-based. Allows you to use shell scripts to accurately work with this information.

For example:

#FEATURE:NAME:VRMF:FIXPACK:SPECIALINSTALL:PREREQS.

-f
Queries to check if the specific feature is installed. If the feature is installed, the return code is zero. If the feature is not installed, the return code is non-zero.
Specifies the log file. The default log file is /tmp/db2ls.log

-p
Lists the DB2 products installed. Cannot be combined with -f or -a.

-a
Lists all hidden components and visible features. The default is to only list visible features.

User response: Reenter the command.

DBI1050E Unsupported operating system - OS-name, version OS-ver.

Explanation: Your current operating system is not supported or this version of the operating system is not supported.

DBI1051E You cannot execute this program as root.

Explanation: This program can only be run under a non-root user ID.

User response: Login as an user ID other than root, and issue the command again.

DBI1052I The command failed because the current user does not have system root user authority.

Explanation: Special privileges are required to execute some DB2 database commands.

This message is returned when a non-root user ID issues a DB2 database command that requires root user authority.

User response: Login as root and then issue the command again.

DBI1053E File system of type fsys-type is not supported.

Explanation: Creating the instance’s home directory on this type of file system is not supported. Instance’s home directory must exist either on a local file system or on a NFS mounted file system.

User response: Change the home directory to a supported file system and recreate the instance.

DBI1054I The installFixPack command failed because an invalid argument was specified.

Explanation: You can update the installed DB2 database products in a given location, on all UNIX and Linux platforms by using the installFixPack command.

This message is returned when an invalid parameter argument is specified with the installFixPack command.

User response: Enter the command again using valid parameters.

DBI1055E The message file file-name cannot be found.

Explanation: The message file required by the instance commands is missing from the system; it may have been deleted or the database products may not be installed properly.

User response: Verify that the product option containing the message file is installed correctly. If there are verification errors, reinstall the product option.

DBI1056I Usage:

db2chgpdp [-d] [-f <relativePath/FileName>]

Explanation:

-d Turns debug mode on.

-f Specifies a specific file name to update the runtime path. The specified file name should have the path name relative to the base of the current DB2 install location. Root authority is required, and this command must be run directly from DB2DIR/install directory.

User response: Reenter the command.

DBI1057E Required locale locale is not available.

Explanation: The required locale directory, /usr/lib/locale/LANG/LC_MESSAGES, does not exist, where LANG is the name of your current locale.

User response: Verify that the specified locale has been installed correctly. Also check for the read and execute permissions are set correctly on that directory.

DBI1058E gzip command not found.

Explanation: The gzip utility must be available on your system to install or update DB2 products.

User response: Ensure the gzip utility is installed in the PATH environment variable. Reenter the command.

DBI1059I There still exists DB2 instance(s) related to the current installation directory where DB2 Suite filesets are going to be completely uninstalled. The deinstallation process can't continue because of this.

User response:

1. If the deinstallation is for moving up or down DB2 level for the current DB2 installation, you need to use installFixPack in the DB2 images of the desired DB2 Level to update the current DB2 installation.
2. If the purpose is to uninstall then reinstall DB2 in the same location, use installFixpack with the -f option.

3. If the purpose is to just uninstall DB2 in the current location, you need to drop the DB2 instances related to the installation directory if they are not needed anymore. Or you need to update the DB2 instances to other DB2 installation location for the same version of DB2 and then restart db2_deinstall.

**DBI1060E**  Invalid package name *pkg-name*.

**Explanation:** An incorrect name has been entered. The package either does not exist or the name has been entered incorrectly.

**User response:** Check to see if the name of the given package exists on the distribution media. If so, examine the name to see if it has been misspelled.

**DBI1061E**  A file set or package name *pkg-name* is missing.

**Explanation:** An error occurred when verifying software pre-requisites. The indicated file set or package must be installed before using this command.

**User response:** Check to see if the name of the given package has been installed on your system.

**DBI1062E**  A file set or package name *pkg-name* is missing.

**Explanation:** The indicated file set or package must be installed before using this command.

**User response:** Install the file set or package and then reissue this command.

**DBI1063E**  PTF or patch *patch-name* is missing.

**Explanation:** The indicated PTF or patch must be installed before using this command. This PTF or patch is required to complete this command successfully.

**User response:** Install the required PTF or patch and enter this command again.

**DBI1064E**  The user *user* is being used by the DB2 instance and thus cannot be used to create the DB2 Administration Server.

**Explanation:** The user that is being used to create the DB2 Administration Server is being used by the DB2 instance. You should not create the DB2 Administration Server with this user.

**User response:** Use a different user name that is not being used by the DB2 instance to create the DB2 Administration Server.

**DBI1065E**  Program *program-name* terminated prematurely.

**Explanation:** An error has occurred during the execution and that has caused this program to terminate prematurely.

**User response:** Correct the problem and try the command again.

**DBI1066E**  Program *program-name* terminated by request.

**Explanation:** This program has been terminated by the user.

**User response:** Issue the same command to restart the program.

**DBI1067E**  DB2 Product Library for locale *locale-name* is not installed.

**Explanation:** No compressed-tar HTML files can be found in the DB2DIR/doc/"<locale-name>"/html directory, where

\[
\text{DB2DIR} = \begin{cases} 
\text{usr/opt/db2_08_xx}, & \text{where xx is 01 or FPn}, \\
\text{/opt/IBM/db2/V8.x}, & \text{where x is 1 or FPn}, \\
\end{cases}
\]

where n is the FixPak number

**User response:** Install the DB2 Product Library for the required locale and issue this command again.

**DBI1068E**  There is not enough space to uncompress and un-tar all the HTML file in the directory *dir-name*.

**Explanation:** After uncompress and un-tar, all the HTML files cannot be saved in the indicated directory because the file system is full.

**User response:** Increase the size of the file system or free up sufficient disk space in the file system. Issue the command again.

**DBI1069E**  Unexpected error. Function = *fname*, Return code = *return-code*.

**Explanation:** An unexpected error occurred during the execution of this program.

**User response:** If the problem persists, contact IBM Support with the following information:

- Message number
- Function name
- Return code
- Problem description
## DBI1070I - Program completed successfully.

**DBI1070I** Program program-name completed successfully.

## DBI1072I - db2licm failed to update the nodelock file.

**DBI1072I** db2licm failed to update the nodelock file. Refer to the log file log-name for more information.

**Explanation:** db2licm failed to add the license to the nodelock file, so DB2 will run with a Try-and-Buy license until a product license is installed.

**User response:** Try the command again and if it continues to fail, manually add the license key to the nodelock file.

## DBI1073E - The parameter parameter_name is missing. This parameter is required for the installer_name command.

**DBI1073E** The parameter parameter_name is missing. This parameter is required for the installer_name command.

## DBI1074E - Administration server does not exist.

**DBI1074E** Administration server does not exist.

**Explanation:** An attempt was made to update or upgrade an administration server. An administration server does not exist.

**User response:** Create an administration server using the dascr command.

## DBI1075E - Administration server cannot be migrated.

**DBI1075E** Administration server cannot be migrated.

**Explanation:** The administration server cannot be migrated. The administration server is running at a level which is not a supported DB2 migration level.

**User response:**
- If the administration server is running the same version as DB2, use dasupdt to update the administration server.
- If the administration server is running an unsupported migration level, drop the administration server using the dasdrop command, and re-create the administration server using the dascr command at the current DB2 level.

## DBI1076E - The installation of DB2 pureScale failed because no supported RDMA capable network adapters were found.

**DBI1076E** The installation of DB2 pureScale failed because no supported RDMA capable network adapters were found.

**Explanation:** The DB2 pureScale Feature requires the use of Remote Direct Memory Access (RDMA) capable network adapters to provide a low latency cluster interconnect. A supported RDMA adapter was not found.

**User response:** Consult the documentation about installing DB2 pureScale for information on network considerations in the installation prerequisites.

## DBI1077E - The user user is being used by the DB2 Administration Server and thus can not be used to create the DB2 instance.

**DBI1077E** The user user is being used by the DB2 Administration Server and thus can not be used to create the DB2 instance.

**Explanation:** The user that is being used to create the DB2 instance has been used by the DB2 Administration Server. You should not create the DB2 instance with this user.

**User response:** Use a different user name that is not being used by the DB2 Administration Server to create the DB2 instance.

## DBI1078E - Updating the IBM Tivoli System Automation for Multiplatforms (SA MP) failed. See the log file log-file-name for details. (TSAMP_RC=TSAMP_RC).

**DBI1078E** Updating the IBM Tivoli System Automation for Multiplatforms (SA MP) failed. See the log file log-file-name for details. (TSAMP_RC=TSAMP_RC).

**Explanation:** The DB2 installer uses the installSAM utility to update the SA MP. The installSAM utility returned errors. The installSAM log file contains more complete information.

TSAMP_RC is the return code from the installSAM utility.

*Note that you must have root authority to use the DB2 installer to update SA MP.*

SA MP was not updated.

**User response:** See the mentioned log file for details.

To update SA MP manually, use the installSAM command.

For more information about the installSAM command, see the SA MP Base Component documentation.

## DBI1079I - Output is saved in the log file log-name.

**DBI1079I** Output is saved in the log file log-name.

**Explanation:** All processed and failed operations have been saved into this log file.

This file is for IBM Technical Support reference.

## DBI1080E - Disk full. Minimum space required in dir-name is KB KB, whereas only KB KB space is available.

**DBI1080E** Disk full. Minimum space required in dir-name is KB KB, whereas only KB KB space is available.

**Explanation:** There is not enough free space available in the file system or directory.

**User response:** Free more disk space and retry the command.

## DBI1081E - The file or directory file-name is missing.

**DBI1081E** The file or directory file-name is missing.

**Explanation:** A file or directory that is required to process this command is missing.

**User response:** If the file belongs to one of the database products then verify that the product is installed correctly and reinstall the product if necessary.
If the file belongs to an instance then the instance may have already been removed or it may be corrupted.

Check to see if the name of the given directory exists on your file system. If so, examine the name to see if it has been misspelled. Note that all file and directory names are case-sensitive on Unix.

**DBI1082E** The file or directory file-name already exists.

**Explanation:** A file or directory that the command needs to create already exists.

**User response:** Examine the specified file or directory. If the file or directory exists as a result of a previous successful completion of the command, no action is required. Otherwise, you need to either rename or remove the specified file or directory before trying the command again.

**DBI1083E** An attempt to remove file-name failed.

**Explanation:** An error occurred when removing the given file or directory. This may be due to an inappropriate ownership on this given file or directory.

**User response:** Adjust the file permissions or ownership of the specified file or directory and then issue the command again.

**DBI1084E** An attempt to create file-name failed.

**Explanation:** An error occurred when creating the given file or directory.

**User response:** Check that there is enough space in the file system and that you have write permission for the required directory. Suggested directory permissions are u=rwx,go=rx.

**DBI1085E** An attempt to move the file or directory file-name to file-name failed.

**Explanation:** An error occurred when attempting to relocate the given file or directory. The command could not be processed successfully.

**User response:** Determine why the specified file or directory could not be moved and then try the command again.

**DBI1086E** An attempt to copy the file or directory file-name to file-name failed.

**Explanation:** An error occurred when attempting to duplicate the given file or directory. The command could not be processed successfully.

**User response:** Determine why the specified file or directory could not be copied and then try the command again.

**DBI1087E** An attempt to create the link file-name failed.

**Explanation:** The given link cannot be created. It could be that the write permission on its parent directory has been turned off, or that a file or directory with the same name already exists.

**User response:** Check permissions for the parent directory and restart the install process. Suggested directory permissions are u=rwx,go=rx.

**DBI1088E** Invalid access permission detected for directory directory.

**Explanation:** This message can be returned for multiple reasons, including the following reasons:

- The given name is not a directory, or the directory does not have read and execute permission.
- The given directory can be created but cannot be accessed.
- The permissions on any of the parent directories of the given directory do not meet requirements for DB2 database instance and database directories.

If the home directory of the DB2 database manager instance is located on a mounted drive, this message can be returned if the DB2 database install utility fails to validate the permissions of the mount point.

**User response:** Check permissions for the given directory and restart the install process. Suggested directory permissions are u=rwx,go=rx.

If the home directory of the DB2 database manager instance is located on a mounted drive, perform the following troubleshooting steps:

1. Verify the access permissions of the home directory of the instance owner by using the command "su".
   Example:
   ```
   /usr/bin/su <instance_owner> -c /bin/pwd
   ```

2. If the permissions do not include "r" and "x", unmount the drive, change the permissions, and remount the drive.
   Example:
   ```
   umount /<directory>
   chown <instance_owner> /<directory>
   chmod 755 /<directory>
   mount /<directory>
   ```

**DBI1089E** Error in saving current instance related information in the backup-dir directory.

**Explanation:** There may be several reasons for this error. It is likely that one of the following situations has occurred:

- The given directory does not have sufficient permissions or does not have the write permission.
- There is no space left on the file system.
User response: Take an appropriate corrective action and issue the command again.

**DBI1090E** An attempt to update parameter in file-name failed.

Explanation: An error occurred while updating the given file.

User response: Verify that all occurrences of "<parameter>" are set to "<value>" in "<file-name>".

**DBI1091E** An attempt to change permissions for directory failed.

Explanation: An error occurred when changing permissions on the given file or directory. This may be due to an inappropriate ownership on this file or directory.

User response: Check permissions and ownership for the given directory and restart the install process. Suggested directory permissions are u=rwx,g=rx.

**DBI1092E** An attempt to change ownership for directory failed.

Explanation: An error occurred when changing ownership on the given file or directory. This may be due to an inappropriate ownership on this file or directory.

User response: Check ownership for the given directory and restart the install process.

**DBI1093E** An attempt to change group ownership for directory failed.

Explanation: An error occurred when changing group ownership on the given file or directory. This may be due to an inappropriate ownership on this file or directory.

User response: Check ownership for the given directory and restart the install process.

**DBI1094E** Directory access error.

Explanation: The tool encountered an access error during an I/O operation with the directory server.

User response: Ensure the directory server is on-line and accessible over the LAN.

**DBI1095W** The file or directory name cannot be found.

User response: Verify that the file set/package providing the file/directory has been installed.

**DBI1096E** The file or directory file-name already exists.

Explanation: A file or directory that the command needs to create already exists.

User response: Examine the specified file or directory. If you no longer need this file or directory, remove it and then run the command again. Otherwise, you will need to either rename or remove the specified file or directory before trying the command again.

**DBI1097E** The file or directory file-name does not exist.

Explanation: A file or directory that the command requires does not exist.

User response: If the file or directory does not exist, you may have to install the software that provides the file/directory. If the file or directory does exist, check to see that the PATH variable has been set properly. Once the file or directory is there in your PATH, try the command again.

**DBI1098I** Usage:

```
db2cptsa [-h|-?]
    [-c]
    [-f]
    [-r]
```

Explanation: Valid arguments for this command are:

- **-h|-?** Displays help information.

- **-c** Verifies that the DB2 High Availability (HA) scripts exist in /usr/sbin/rsct/sapolicies/db2, and that they are at the proper level.

- **-f** Forces a reinstall of the DB2 HA scripts in /usr/sbin/rsct/sapolicies/db2. Without this argument, if the version of the DB2 HA scripts that are already installed is the same as or higher than the version of the scripts being installed, then the installed scripts are not overwritten.

- **-r** Removes the directory /usr/sbin/rsct/sapolicies/db2. This directory is where the DB2 HA scripts for the IBM Tivoli System Automation for Multiplatforms (SA MP) are located. These scripts and this directory will only be removed if the SA MP is not installed.

This utility installs or updates the DB2 HA scripts in /usr/sbin/rsct/sapolicies/db2. You need these DB2
HA scripts to use the IBM Tivoli System Automation for Multiplatforms (SA MP) with the DB2 HA feature.

By default, this utility installs the DB2 HA scripts in /usr/sbin/rsct/sapolicies/db2 if they aren't already installed there, or if the version of the scripts already installed is older than the version of the scripts being installed. This utility installs or updates the DB2 HA scripts if and only if the SA MP is already installed.

This command must be run with root authority.

This command can be found on the DB2 install media in the directory:
- `db2/<plat>/tsamp`

where `<plat>` is:
- `aix` for DB2 for AIX
- `linux` for DB2 for Linux on 32-bit AMD and Intel systems (x86)
- `linuxamd64` for DB2 for Linux on AMD64 and Intel EM64T systems (x86-64)
- `linuxppc` for DB2 for Linux on POWER (iSeries(TM) and pSeries) systems
- `linux390` for DB2 for Linux on System z9 and zSeries

The command is also available at `<DB2DIR>/install/tsamp` directory where `<DB2DIR>` is the installation path of DB2 database.

**User response:** Reenter the command.

---

**DBI1099I**  The DB2 High Availability (HA) scripts for the IBM Tivoli System Automation for Multiplatforms (SA MP) were successfully installed in /usr/sbin/rsct/sapolicies/db2.

**Explanation:** You need DB2 HA scripts to use the IBM Tivoli System Automation for Multiplatforms with the DB2 HA feature.

These DB2 HA scripts are located at /usr/sbin/rsct/sapolicies/db2. The DB2 installer detects whether these DB2 HA scripts need to be installed or updated.

The DB2 installer successfully installed the DB2 HA scripts.

**User response:** No action is required.

---

**DBI1100E**  An instance lock is found. Another instance management command is running.

**Explanation:** The command failed because another instance management command (eg. `db2icrt`, `db2idrop`, or `db2iupdt`) is running. The instance management commands acquire an exclusive lock to avoid conflicting simultaneous commands against the same instance.

**User response:** Wait for all other occurrences of the instance commands to finish executing before trying the command again. If no other instance commands are running then delete the file "instance.lock" in one of the following directories:
- `/usr/opt/db2_08_xx`, where xx is 01 or FPn, where n is the FixPak number
- `/opt/IBM/db2/V8.x`, where x is 1 or FPn, where n is the FixPak number

---

**DBI1101E**  The user name `user-name` is invalid.

**Explanation:** The given user name must be the login name of an existing user and cannot:
1. be more than 8 characters long.
2. start with "sql", "ibm" or "sys".
3. start with a numeral or contain characters other than a-z, $, #, @, _, or 0-9.

**User response:** Please check the "User, user ID and group naming rules" in DB2 Administration Guide for details.

Try the command again with a valid user name.

---

**DBI1102E**  The DAS name is invalid.

**Explanation:** The DAS name must be the login name of an existing user and cannot
- be more than 8 characters long,
- start with "sql", "ibm", or "sys",
- or start with a numeral or contain characters other than a-z, $, #, @, _, or 0-9.

**User response:** Issue the command with a valid DAS name.

---

**DBI1103E**  The Administration Server already exists.

**Explanation:** The system detects that the Administration Server has already been created on your system. You can only create one Administration Server on each system.

**User response:** If you want to re-create the Administration Server, you have to drop the Administration Server first before re-creating it.

---

**DBI1104E**  The Administration Server cannot be dropped.

**Explanation:** An attempt to drop the Administration Server failed. The system detects that the Administration Server does not exist.

**User response:** No action required.
The DB2 Data Links Manager Administrator already exists.

**Explanation:** The system detects that the DB2 Data Links Manager Administrator has already been created on your system. You can only create one DB2 Data Links Manager Administrator on each system.

**User response:** If you want to re-create the DB2 Data Links Manager Administrator, you have to drop the DB2 Data Links Manager Administrator first before re-creating it.

The DB2 Data Links Manager Administrator cannot be dropped.

**Explanation:** An attempt to drop the DB2 Data Links Manager Administrator failed. The system detects that the DB2 Data Links Manager Administrator does not exist or has been created under a different user ID.

**User response:** Verify that the name of the DB2 Data Links Manager Administrator as reported by the "dlfmist" command is correct and try again.

Valid group name or number group-name not specified for the DLFM user user.

**Explanation:** While creating a dlfm instance or migrating a dlfm instance from DB2 V7 or earlier, the -g DLFMGid must be specified.

DLFMGid can be a numeric group id or a group name. The named group must be in the secondary group list of the named DLFM user.

If migrating a V8 or later dlfm instance, if -g DLFMGid is specified which is not the same as the DLFMGid already set up for the instance, the specified parameter will be ignored and the old Gid will be used.

**User response:** Set the group in the list of secondary groups for the DLFM user and reissue the command.

The kernel parameters must be updated before using this command.

**Explanation:** Some of the kernel parameters are not configured properly.

**User response:**
- Update all necessary kernel parameters.
- Reboot the system
- Try this command again

The DB2 High Availability (HA) scripts for the IBM Tivoli System Automation for Multiproducts (SA MP) were successfully updated in /usr/sbin/rsct/sapolicies/db2.

**Explanation:** You need DB2 HA scripts to use SA MP with the DB2 HA feature.

These DB2 HA scripts are located at /usr/sbin/rsct/sapolicies/db2. The DB2 installer detects whether these DB2 HA scripts need to be installed or updated.

The DB2 installer successfully updated the DB2 HA scripts.

**User response:** No action is required.

The FencedID parameter must be specified using -u flag with this command.

**Explanation:** The FencedID parameter must be specified with this command. The FencedID parameter is set to the name of the user under which fenced User Defined Functions (UDFs) and fenced Stored Procedures will be run.

**User response:** Enter the command again adding the arguments "-u FencedID" where FencedID is the name of the user that you want your fenced UDFs or fenced Stored Procedures to run under.

For security reasons it is recommended that you do not use the instance name as the FencedID. However, if you are not planning to use fenced User Defined Functions (UDFs) or fenced Stored Procedures then setting the FencedID to the instance name may save you the step of having to create another user for the FencedID.

The FencedID parameter fenced-id is not valid.

**Explanation:** The FencedID parameter which specifies the user name under which fenced User Defined Functions and fenced Stored Procedures will be run:
- Must be the login name of an existing user.
- Cannot be set to the root or the bin user.

**User response:** Try the command again with a valid FencedID parameter.

Previous value of FencedID parameter old-value is different. New value new-value is ignored.

**Explanation:** The FencedID parameter entered on the command line is different from the one used before for this userid. New value for this parameter is ignored.

The DB2 High Availability (HA) scripts for the IBM Tivoli System Automation for Multiproducts (SA MP) were not found in /usr/sbin/rsct/sapolicies/db2.

**Explanation:** You need DB2 HA scripts to use SA MP with the DB2 HA feature.

The db2cpts utility expects to find these scripts, as
well as a file named “spec”, in /usr/sbin/rsct/sapolicies/db2.

The DB2 installer could not find the DB2 HA scripts, or the spec file.

User response: Run the db2cpts utility with root authority to manually install the DB2 HA scripts.

```
DBI1115E  Invalid AuthType parameter auth-type specified with -a flag.

Explanation: The AuthType parameter which specifies the authentication type used for the instance is not valid. Valid authentication types are:

  • SERVER
  • CLIENT
  • SERVER_ENCRYPT

User response: Try the command again with a valid AuthType parameter.
```

```
DBI1116W  The version of the DB2 High Availability (HA) scripts for the IBM Tivoli System Automation for Multiplatforms (SA MP) found in /usr/sbin/rsct/sapolicies/db2 is a lower version than the version of the same scripts on the current DB2 install media.

Explanation: You need DB2 HA scripts to use SA MP with the DB2 HA feature.

SA MP and the DB2 HA feature being installed from the DB2 install media require DB2 HA scripts with a version the same as or higher than the version of the scripts also on the DB2 install media.

The version of the DB2 HA scripts currently installed is lower than the version of the scripts on the DB2 install media.

User response: Run the db2cpts utility with root authority to manually update the DB2 HA scripts.
```

```
DBI1117I  The version of the DB2 High Availability (HA) scripts for the IBM Tivoli System Automation for Multiplatforms (SA MP) found in /usr/sbin/rsct/sapolicies/db2 is a higher version than the version of the same scripts on the current DB2 install media.

Explanation: You need DB2 HA scripts to use SA MP with the DB2 HA feature.

SA MP and the DB2 HA feature being installed from the DB2 install media require DB2 HA scripts with a version the same as or higher than the version of the scripts also on the DB2 install media.

The version of the DB2 HA scripts currently installed is higher than the version of the scripts on the DB2 install media.

User response: No action is required.
```

```
DBI1118W  DB2 has created a .profile file under the home directory of user name (instance owner or DAS) that contains the entries to set up a default environment (instance or DAS).

User response: If you are using the Korn Shell and want to manually set up the environment of the instance or DAS name, you can remove the .profile created by the DB2 script and manually set up the instance or DAS environment.
```

```
DBI1119I  The version of the DB2 High Availability (HA) scripts for the IBM Tivoli System Automation for Multiplatforms (SA MP) found in /usr/sbin/rsct/sapolicies/db2 is the same version as the version of the scripts on the current DB2 install media.

Explanation: You need DB2 HA scripts to use SA MP with the DB2 HA feature.

SA MP and the DB2 HA feature being installed from the DB2 install media require DB2 HA scripts with a version the same as or higher than the version of the scripts also on the DB2 install media.

The version of the DB2 HA scripts currently installed the same as the version of the scripts on the DB2 install media.

User response: No action is required.
```

```
DBI1120E  Instance inst-name cannot be dropped.

Explanation: An attempt was made to drop an instance which may still be active.
```

```
DBI1121E  Cannot drop the Administration Server using “db2idrop”.

Explanation: An attempt was made to drop the Administration Server using “db2idrop”. This operation is not allowed since it will cause the registry to be in an inconsistent state.

User response: Use the “dasidrop” command to remove the Administration Server.
```

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DBI1122E  Instance inst-name cannot be updated or upgraded.

**Explanation:** An attempt was made to either update or upgrade an instance. This instance cannot be updated or upgraded because:
- One of the following commands cannot be used to either update or upgrade this instance: db2iupdt, db2iupgrade, or db2nrupdt.
- The instance is still active.

**User response:** Ensure that you are using the correct version of one of the following commands: db2iupdt, db2iupgrade, or db2nrupdt. Also, ensure that there are no DB2 processes running at the instance. Retry the command.

DBI1123E  Cannot update the Administration Server using “db2iupdt”.

**Explanation:** An attempt was made to update the Administration Server using “db2iupdt”. This operation is not allowed since it will cause the registry to be in an inconsistent state.

**User response:** Use the “dasiupdt” command to update the Administration Server.

DBI1124E  Instance inst-name cannot be upgraded.

**Explanation:** An attempt was made to upgrade an instance. This instance cannot be upgraded because:
- The instance is still active.
- Upgrading this instance is not supported.
- This version of the db2iupgrade command cannot be used to upgrade this instance.

**User response:** Ensure that the instance is ready for upgrading and you are using the correct version of the db2iupgrade command. For more information on upgrading an instance, refer to the DB2 Information Center.

DBI1125E  Cannot drop the DB2 Data Links Manager Administrator using “db2idrop”.

**Explanation:** An attempt was made to drop the DB2 Data Links Manager Administrator using “db2idrop”. This operation is not allowed since it will cause the registry to be in an inconsistent state.

**User response:** Use the “dlfmdrop” command to remove the DB2 Data Links Manager Administrator.

DBI1126E  Instance upgrade failed because one or more views defined in the database might impact database upgrade.

**Explanation:** The db2iupgrade command calls the db2ckupgrade command. The instance upgrade fails if the db2ckupgrade command returns any errors.

The db2ckupgrade command has identified one or more views that are dependent on database entities that have changed. This might cause the UPGRADE DATABASE command to fail.

The identified views are listed in the db2ckupgrade log file.

**User response:** Resolve the issue with the identified views or drop the views and then re-issue the re-issue the db2iupgrade command. After database upgrade, re-create the views that you dropped.

Alternatively, you can upgrade a test database that contains the identified views in a testing environment to determine if the UPGRADE DATABASE command will fail. If the database upgrade is successful, re-issue the db2iupgrade command with the -F parameter to force the upgrade.

DBI1127E  The DB2 High Availability (HA) scripts for the IBM Tivoli System Automation for Multiplatforms (SA MP) found in /usr/sbin/rsct/sapolicies/db2 were not removed because the SA MP was still installed.

**Explanation:** You need DB2 HA scripts to use the SA MP with the DB2 HA feature.

You cannot uninstall these scripts while the SA MP is still installed. This is to prevent unexpected behaviour resulting from using the SA MP with the DB2 HA feature without the scripts being installed.

The DB2 HA scripts were not uninstalled.

**User response:**
- If you intend to manually uninstall the SA MP as well as the DB2 HA scripts, uninstall the SA MP first using the uninstallSAM utility.
- Alternatively, use db2_deinstall with the -a and -F TSAMP arguments to uninstall the SA MP and the DB2 HA scripts, because db2_deinstall will uninstall these in the correct order.

DBI1128E  Cannot drop the Administration Server using “dlfmdrop”.

**Explanation:** An attempt was made to drop the Administration Server using “dlfmdrop”. This operation is not allowed since it will cause the registry to be in an inconsistent state.

**User response:** Use the “dasidrop” command to remove the Administration Server.
**Cannot update the Administration Server using “dlfmupdt”.**

**Explanation:** An attempt was made to update the Administration Server using “dlfmupdt”. This operation is not allowed since it will cause the registry to be in an inconsistent state.

**User response:** Use the “dasiupdt” command to update the Administration Server.

**The IBM Tivoli System Automation for Multiplatforms (SA MP) could not be installed or updated because system prerequisites were not met. See the log file log-file-name for details.**

**Explanation:** There are system prerequisites for installing or updating SA MP. These prerequisites have not been met.

The mentioned log file has the details for the unsatisfied prerequisites.

To find out more about the system prerequisites for the SA MP Base Component, see the SA MP Base Component documentation’s Installation and Configuration Guide.

SA MP cannot be installed or updated.

**User response:** Modify your system to meet the prerequisites; and use the installSAM utility to manually install SA MP.

**The user ID user-id is invalid.**

**Explanation:** An attempt to access the given user ID failed. One of the following situations has occurred:

- This user ID does not exist on the system.
- The home directory of this user is not set up properly.
- One of the user attributes needed by DB2 is unset.
- The UID of this user is 0

**User response:** Make sure a valid user ID with valid home directory, shell, primary group and secondary group has been used. Create a new user if necessary.

**The DB2 installer could not find the correct license to install or update the IBM Tivoli System Automation for Multiplatforms (SA MP). The DB2 installer expected the license file to be found at directory-name on the DB2 install media.**

**Explanation:** The regular license for SA MP is named sam31.lic, and the try-and-buy license is named sam31tb.lic. One, but not both, of these files must exist in the specified directory on the DB2 install media for the DB2 installer to install or update SA MP.

**SA MP cannot be installed without the proper license.**

**User response:** Ensure the appropriate license file is in the specified directory and reissue the command.

**Command failed. The current host is part of a GPFS cluster.**

**Explanation:** The current host is part of an IBM General Parallel File System (GPFS) cluster. You cannot remove the GPFS cluster from the host on which the command was run. Also, the uninstallGPFS command is not a supported command.

**User response:** To remove the GPFS file system and cluster on the remaining host, run the db2cluster command. For details about the steps to manually removing a clustered file system, see the DB2 Information Center.

**The DB2 High Availability (HA) scripts for the IBM Tivoli System Automation for Multiplatforms (SA MP) were not installed because the SA MP was not installed.**

**Explanation:** You need DB2 HA scripts to use the SA MP with the DB2 HA feature. You do not need these scripts if you are not using the SA MP.

The DB2 HA scripts were not installed.

**User response:** No action is required.

**The primary group users of user ID test-user is invalid.**

**Explanation:** The primary group name of the instance user ID:

1. Cannot be one of "guests", "admins", "users" or "local".
2. Cannot start with "sql" or "ibm".
3. Cannot start with a numeral number.
4. Can contain only lowercase letters (a-z), numbers (0-9), and the underscore character (_).

**User response:** Ask a user with root privilege to change the primary group of the instance user ID to a valid group as described in this message’s Explanation and then try the command again.

**OLAP Start Kit not installed.**

**Explanation:** The instance you are migrating has OLAP functionality. OLAP Starter Kit is not available in this version of DB2. The instance will be migrated only if the -F parameter was specified.

**User response:** If program aborts, rerun the same db2imigr command with the -F parameter to force migration. OLAP functionality will not be present.
DBI1137W  Server Product not installed.

Explanation: The instance you are upgrading is a Server instance. A DB2 Server Product has not been detected. The instance will be upgraded only if the -F parameter is specified.

User response: If the db2iupgrade command fails, reissue this command with the -F parameter to force the upgrade. The instance will not have the DB2 Server functionality. To re-enable DB2 Server functionality in the instance, install a DB2 Server Product and issue the db2iupdt command to update the instance.

DBI1138W  Query Patroller not installed.

Explanation: The instance you are upgrading has Query Patroller functionality. Query Patroller was not detected in the installed DB2 product.

User response: If the db2iupgrade command fails, reissue the command to force the upgrade. The instance will not have the Query Patroller functionality. To re-enable Query Patroller functionality in the instance, install Query Patroller and issue the db2iupdt command to update the instance.

DBI1139E  Data-Links File Manager is not installed.

Explanation: The instance you are upgrading has Data-Links functionality. Data-Links File Manager is not supported in the version of the DB2 product you are upgrading to.

DBI1140W  Command is being Forced. You have specified the -F flag to force the issued command past the point of failures mentioned in the previous warnings.

User response:

DBI1141E  Visual Warehouse 3.1 instance detected.

Explanation: Visual Warehouse 3.1 instance migration to V8 is not supported. Only Visual Warehouse 5.2 and above can be migrated to V8.

DBI1142W  Visual Warehouse 5.2 instance detected.

Explanation: Visual Warehouse 5.2 instance detected. Instance will be migrated but warehouse metadata will not be migrated.

DBI1143W  Relational Connect is not installed.

Explanation: Relational Connect was not detected in the version you are migrating to, but a setting file for DB2 and/or non-DB2 datasources was detected for the instance you are migrating. This configuration will be migrated but Relational Connect for DB2 has to be installed to make use of these configuration parameters.

User response: Install Relational Connect for DB2 to make use of the configuration parameters.

DBI1144E  Relational Connect is not installed.

Explanation: Relational Connect was not detected in the version you are migrating to but environment variables have been found that indicate that you have non-DB2 data sources. This instance cannot be migrated if Relational Connect is not installed.

User response: Please install Relational Connect and try the command again.

DBI1145E  DB2 Instance Setup wizard is not installed.

Explanation: The db2isetup script can perform configuration and instance setup tasks using a response file, or it can launch the DB2 Instance Setup wizard to perform these tasks using a graphical user interface. Currently, only the response file support mode is installed. To use the graphical mode, the DB2 Instance Setup wizard feature must be installed.

User response:

• Install the DB2 Instance Setup wizard by launching the DB2 Setup wizard from the CD (not available as part of the Runtime Client).

• Create a response file and reissue the command as db2iupdt -r <responsefile>.

DBI1147E  db2iupdt failed to update the user ID userid.

Explanation: The user ID specified is not a DB2 instance.

DBI1148E  dasupdt failed to update the user ID userid.

Explanation: The user ID specified is not an Administration Server.

DBI1149E  To execute this program, you must be the owner of the installation copy.

Explanation: The current DB2 copy was not installed by the user who is running the program.

User response: Log in as the user who installed the current copy of DB2 and rerun the command.

DBI1150W  db2iupdt has updated this instance to a 64-bit non-server instance.

Explanation: You cannot create or upgrade to a 64-bit Express server instance. If you want to run a 64-bit server instance, you must have the DB2 Server Edition installed.

User response: If you do not require a server instance,
you can continue to use the created or upgraded instance. If you want to use a 64-bit server instance, you should install DB2 Server Edition, and run the following command:

db2iupdt -w 64 <instance-name>

---

**DBI1151E** The `db2icrt` command or the `db2iupg2` command has created a 64-bit non-server instance.

**Explanation:** You cannot create or upgrade to a 64-bit Express server instance. If you want to run a 64-bit server instance, you must have the DB2 Server Edition installed.

**User response:** If you do not require a server instance, you can continue to use the created or upgraded instance. If you want to use a 64-bit server instance, you should install DB2 Server Edition, and run the following command:

db2iupdt -w 64 <instance-name>

---

**DBI1152E** To run this program, you can not be root user.

**Explanation:** `tool-name` can not be run by users with root authority.

**User response:** Rerun the command as a non-root user.

---

**DBI1153E** AIO is not enabled.

**Explanation:** AIO needs to be enabled on the system to run DB2.

**User response:** Ask a user with root privileges to enable AIO and try the command again.

---

**DBI1154E** `instance-name` is an instance that belongs to a DB2 copy installed by a non-root user. The instance cannot be updated from a DB2 copy installed by a root user. If you want to update the instance, run `db2nrupdt` from the DB2 copy installed by the non-root user.

**User response:**

1. To update the DB2 non-root instance, run the `db2nrupdt` command in the `$HOME/sqllib/instance/` directory, where `$HOME` is the home directory of the user ID that installed the DB2 non-root instance.

2. Upgrading to a DB2 root instance is not supported for DB2 non-root instances. Refer to the DB2 Information Center for details on how to upgrade databases from DB2 root instances to non-root instances.

3. To drop the DB2 non-root instance, uninstall the DB2 non-root installation by running the `db2_deinstall` command in the command `$HOME/sqllib/install/` directory, where `$HOME` is the home directory of the user ID that installed the DB2 product.

---

**DBI1156I** System prerequisites cannot be checked completely when installing as a non-root user.

**Explanation:** A complete system check cannot be performed because root authority is required.

**User response:** A non-root user must check system prerequisites from the DB2 documentation. A system administrator must make sure the system meets all the requirements to install and use the current DB2 level.

---

**DBI1157E** Invalid value.

**Explanation:** The `parameter-or-value` passed to the installer command `cmd` is not valid.

**User response:** Correct the error and run the command again.

---

**DBI1158I** DB2 will be installed to `installpath`.

---

**DBI1159E** `db2iupdt` can not update an instance from using a non-root installation to using a root installation or vise versa.

---

**DBI1160I** Non-root install is being performed.

---

**DBI1161I** Usage:

db2rfe [-h|-?] [-d] [-l logfile_name] [-q] -f <db2rfe_configuration_file>

**Explanation:**

- `-h` displays the usage information.
- `-d` turns debug mode on.
- `-l logfile_name` is a user specified log file.
- `-q` query which installed root features are enabled.
or not enabled or which configured service ports are reserved or not reserved. The -q option should not be used with the -f option.

- **f** is mandatory option. `db2rfe_configuration_file` is the full path name of `db2rfe`'s configuration file.

**Note:** This command must be run from the `$DB2DIR/instance` directory. If the `db2rfe` command detects any root features enabled or any port numbers reserved and used by the DB2 instance, a summary report shows the following information:
- The installed root features that have been or have not been enabled
- The DB2 service ports used by the DB2 instance that have been or have not been reserved in the system's services file.

**DBI1162I** Usage:

**Explanation:** You can configure non-root installations by using the `db2nrcfg` utility.

**Syntax:**
```
db2nrcfg [-h|-?] [-d] [-a AuthType] [-p PortName] [-s InstType]
```

**User response:** Call the `db2nrcfg` command, specifying valid parameters.

**DBI1163I** An invalid argument was entered for the `db2nrupdt` command.

**Explanation:** The syntax for the `db2nrupdt` command is:
```
db2nrupdt [-a AuthType] [-d] [-k ] [-j "TEXT_SEARCH" | -j "TEXT_SEARCH, portnumber"] [-h|-?]
```

For details about the parameters of the `db2nrupdt` command, refer to the DB2 documentation for Linux, UNIX, and Windows.

This command must be run from the `$HOME/sqllib/instance` directory where the `$HOME` is the home directory of the non-root DB2 instance ID. This command can be run only as the non-root DB2 instance who owns the non-root DB2 installation at `$HOME/sqllib`.

**User response:** Enter the command again using valid parameters or run the command from the correct directory.

**DBI1164E** A value is needed for `entry-name`.

**Explanation:** To enable the remote connection, please provide a value for `entry-name` in the configuration file.

**DBI1165E** Instance `instance-name` is not accessible on the following database partitions:


**Explanation:** The file name of the specified file set has been modified or corrupted.

**User response:** Download the fix pack installation package again and re-run the command.

**DBI1167I** An invalid argument was entered for the `db2ckgpfs` command.

**Explanation:** The syntax for the `db2ckgpfs` command is:
```
```

For details about the parameters of the `db2ckgpfs` command, refer to the DB2 Information Center.

**User response:** Enter the command again using valid parameters.

**DBI1168W** While attempting to create or update a 64-bit instance, it was detected that the installed level of `bos.rte.libc` is lower than the minimum requirement for 64-bit instances.

**Explanation:** The installed level of `bos.rte.libc` is lower than 5.1.0.28, the minimum required level for supporting 64-bit instances.

**User response:** Before proceeding, download APAR IY32466 and update your system.

Information on downloading APARs is available from http://www.ibm.com/aix.

You can reissue the command with a -F parameter to force execution past the point of warning.

**DBI1169E** The DB2 HTML Documentation is not installed.

**Explanation:** The DB2 HTML Documentation is not installed or it cannot be found.
To update the DB2 HTML Documentation to this FixPak, the DB2 HTML Documentation must be installed.

**User response:** Install the DB2 HTML Documentation and try the command again.

**DBI1170I** An invalid argument was entered for the db2cktsa command.

**Explanation:** The syntax for the db2cktsa command is:
```
```

For details about the parameters of the db2cktsa command, refer to the DB2 Information Center.

**User response:** Enter the command again using valid parameters.

**DBI1171E** DB2 64-bit support is not installed.

**Explanation:** 64-bit instances are not supported or implicit on this platform.

**User response:**
- For Linux IA64, reissue the command without the -w option to create a 64-bit instance.
- For other platforms, reissue the command without the -w 64 option to create a 32-bit instance.

**DBI1172W** While attempting to create or update a 64-bit instance, it was detected that the installed level of one or both of bos.rte.libc and bos.adt.prof is lower than the minimum requirement for 64-bit instances.

**Explanation:** The installed level of one or both of bos.rte.libc and bos.adt.prof is lower than 4.3.3.50, the minimum required level for supporting 64-bit instances.

**User response:** Before proceeding, download one or both of the following PTFs and update your system.
- For bos.rte.libc, the PTF is U473728.bff
- For bos.adt.prof, the PTF is U473581.bff

Information on downloading PTFs is available from http://www.ibm.com/aix.

You can reissue the command with a -F parameter to force execution past the point of warning.

**DBI1173W** db2iupdt has updated this instance to a 64-bit non-server instance.

**Explanation:** You can only update a 32-bit Workgroup server instance to a 64-bit server instance if you have DB2 Server Edition installed.

**User response:** If you do not wish to update to a server instance, you can continue to use the updated instance. If you wish to change this instance back to a 32-bit Workgroup server instance, run the following command:
```
db2iupdt -w 32 <instance-name>
```

If you wish to use a 64-bit server instance, install DB2 Server Edition and run the following command:
```
db2iupdt -w 64 <instance-name>
```

**DBI1174E** The GPFS version installed is too low.

**Installed version:** installed-version. **Media version:** media-version.

**Explanation:** The IBM General Parallel File System (GPFS) version level installed on your system is lower than the GPFS version level on the installation media. GPFS cannot be automatically upgraded. Also, the installGPFS command is not a supported command.

**User response:** Manually remove the GPFS file system and cluster, uninstall GPFS, then install the fix pack with the installFixPack command. For details, see the DB2 Information Center.

**DBI1175W** While attempting to create or update a 64-bit instance, it was detected that the installed level of the Solaris Operating Environment is lower than the minimum requirement for 64-bit.

**Explanation:** The installed level of the Solaris Operating Environment is lower than 5.7, the minimum required level for supporting 64-bit instances.

**User response:** Before proceeding, update your system to the minimum required level of the Solaris Operating Environment.

You can reissue the command with a -F parameter to force execution past the point of warning.

**DBI1176I** Usage:
```
installAltFixPak [-h] [-s] [-y]
```

**Explanation:**
- **-h** display the usage information
- **-s** install the exact same file sets/packages to the alternate path (for supported products) as those installed in /usr/opt/db2_08_01 or /opt/IBM/db2/V8.1.
If installAltFixPak detects that DB2 is not installed in /usr/opt/db2_08_01 or /opt/IBM/db2/V8.1, the -s option will not be used. In that case, it will call the db2_install utility.

-y You have reviewed and accepted the license terms and conditions located in the db2/license directory for all the DB2 Version 8 products on your system.

Please confirm that you have reviewed the license terms and conditions located in the db2/license directory for the installed products. If you accept these license terms and conditions, restart the FixPak installation and specify the '-y' option.

By specifying the '-y' option, you indicate your agreement to the license terms and conditions provided with this product.

DBI1177W Updating an instance to a code level that is lower than the current level used by the instance.

Explanation: An attempt has been made to update an instance to a code level that is lower than the one being used by the instance currently.

User response: To update an instance to a code level that is lower than the current level, issue the db2iupdt command with the -f level option as follows:

```
  db2iupdt -f level
  <instance-name>
```

DBI1178W Updating a DAS to a code level that is lower than the current level used by the DAS.

Explanation: An attempt has been made to update a DAS to a code level that is lower than the one being used by the DAS currently.

User response: To update a DAS to a code level that is lower than the current level, issue the dasupdt command with the -D option as follows:

```
  dasupdt -D
```

DBI1179E Client instances cannot be created using the db2icrt command when the PortName parameter is specified.

Explanation: The PortName parameter is used for inbound TCP/IP connections and is not applicable to client instances.

User response: Reissue the db2icrt command without specifying the PortName parameter.

DBI1180E 32-bit server instances are not supported.

Explanation: The current platform does not support 32-bit server instances.

User response: You cannot specify the bit size for the instance when you create or upgrade an instance. The bit size for new instances is determined by the operating system where DB2 database is installed.

DBI1181E DB2 64-bit support is not installed.

Explanation: 64-bit instances are not supported on this platform.

User response: Before proceeding, either

- update your system to the minimum required level to run 64-bit DB2, and reissue the command again, or
- drop the instance you are upgrading or updating, and re-create it as a 32-bit instance.

DBI1182W Either DB2 Warehouse Manager, or DB2 Warehouse Manager Connectors, or both are not supported for upgrade in this release.

Explanation: The instance you are trying to upgrade has Warehouse Manager or Warehouse Manager Connectors functionality. Warehouse Manager and Warehouse Manager Connectors are not supported in the product release to which you are trying to upgrade. A successful upgrade means that the upgraded instance will not have these capabilities. If this is the expected outcome, you can re-issue the db2iupgrade command.

User response: Re-issue the db2iupgrade command to force the upgrade. Either the Warehouse Manager, or the Warehouse Manager Connectors, or both will not be available once the upgrade is completed.

DBI1183W Spatial Extender not installed.

Explanation: The instance you are upgrading has Spatial Extender functionality. Spatial Extender was not detected in the installed DB2 product.

User response: If the db2iupdt command fails, reissue the command to force the upgrade. The instance will not have the Spatial Extender functionality. To re-enable Spatial Extender functionality in the instance, install Spatial Extender and issue the db2iupdt command to update the instance.

DBI1184W Life Sciences Data Connect not installed.

Explanation: The instance you are migrating has Life Sciences Data Connect functionality. Life Sciences Data Connect was not detected in the installed DB2 product.
<table>
<thead>
<tr>
<th>DBI1185I</th>
<th>Server protocol protocol is no longer supported. It has been removed from DB2COMM.</th>
</tr>
</thead>
</table>
| DBI1186I | Usage: db2cdbr [-d] -n CDBName  
Explanation: An incorrect argument was entered for the db2cdbr command. Valid arguments for this command are:  
-h1-? display the usage information  
-d turn debug mode on.  
-n CDBName CDBName is the name of the Warehouse Control Database you want to create.  
User response: Enter the command again as follows: db2cdbr -n CDBName |
| DBI1187E | Unable to complete DB2 Warehouse Control Database setup.  
Explanation: An attempt to create the DB2 Warehouse Control Database has failed.  
User response: A database partition groups (created on database partition 0) and a table space (both called FLG32K) needs to be created as well. See DB2 DataWarehouse documentation for details. |
| DBI1188E | Migration failed. The group group-name is not in the secondary group list of the DLFM user user-name.  
User response: Set the group group-name in the list of secondary groups for the DLFM user user-name and reissue the command. |
| DBI1189E | There has been an attempt to use db2_deinstall on an image for a platform that does not match the current platform platform on which it is being run.  
Explanation: Possible causes include:  
- This DB2 install image is not valid for the current platform.  
- The current platform is not supported by DB2  
User response: Install DB2 using the DB2 install image that corresponds with the current platform platform |
| DBI1190I | db2setup is preparing the DB2 Setup wizard which will guide you through the program setup process. Please wait. |
| DBI1191I | db2setup is installing and configuring DB2 according to the response file provided. Please wait. |
| DBI1192I | DB2 installation completed successfully. The install logs db2setup.log and db2setup.err are location in location. |
| DBI1193E | DB2 installation completed with warnings. A minor error occurred while installing this computer. Some features may not function correctly. The install logs db2setup.log and db2setup.err are located in location. |
| DBI1194E | An error occurred while installing DB2 on this computer. The installation cannot continue. The install logs db2setup.log and db2setup.err are located in location. |
| DBI1195E | db2nrupdt failed to update user user-name.  
Explanation: The instance can not be updated because it is still active.  
User response: Make sure that the instance is stopped. Then rerun the command. |
| DBI1196E | The DB2 installer cannot detect the operating system on host host-name. System command used: system-command.  
Explanation: Ensure you are running on a supported operating system. For a list of supported operating systems, see to the DB2 Information Center. If you are running the specified command on a supported operating system, ensure the command is functioning correctly. Contact your system administrator. |
| DBI1197E | An error occurred acquiring the processor type information on host host-name. System command used: system-command.  
Explanation: The DB2 installer cannot continue. Either the system command was run on an unsupported
DBI1198E  An error occurred acquiring the Linux distribution on host host-name.

Explanation: The DB2 installer could not determine the Linux distribution on the specified host. This can happen if there is a problem with the Linux release files.

User response: Ensure that either the /etc/issue/release files, or the /etc/*release files, or both, are installed correctly. For a list of supported Linux distributions, see to the DB2 Information Center.

DBI1199I  DB2IDROP completed successfully. The DB2INSTDEF registry variable was set to the dropped instance; it has been cleared. This registry variable should be explicitly set to another valid instance name.

DBI1200E  The directory directory-name is not a version version-number instance.

Explanation: The command cannot proceed because the specified directory does not point to the required version of the database products.

User response: The command cannot be run with the specified instance.

DBI1201E  The specified hosts are not running on the same type of operating systems.

Explanation: All hosts in the same cluster must be running on the same type of operating system.

User response: Ensure all hosts are created on the same operating system. For a list of supported operating systems, see to the DB2 Information Center.

DBI1202E  Upgrading of instance inst-name is not supported.

Explanation: The instance cannot be upgraded because:

1. Upgrading from this version of the instance is not supported.
2. The instance is already using the current version of the product and upgrade is not required.

User response: The db2level command shows the current version and service level of the installed DB2 product. The db2ls command lists where DB2 products are installed on your system and list the DB2 product level.

Make sure that the instance is valid for upgrading and try the command again with a valid instance name.

DBI1203I  The DB2 High Availability (HA) scripts for the IBM Tivoli System Automation for Multiplatforms (SA MP) were successfully uninstalled.

Explanation: You need DB2 HA scripts to use SA MP with the DB2 HA feature.

These scripts have been removed.

User response: No action is required.

DBI1204E  The keyword keyword has an invalid value. Sample configuration file name: file_name

Explanation: The sample configuration file has examples of valid values for this keyword.

User response: Correct the error and rerun the command.

DBI1205E  One or more local databases cannot be upgraded to the version from which you are running this command. Check the log file logfile-name for the list of errors.

Explanation: The following list provides the reasons why a database cannot be upgraded and the corrective action to take:

- Database is in Backup pending state. Perform backup of the database.
- Database is in Roll-forward pending state. Perform a roll-forward database to end of logs and stop.
- Database is in Restore pending state. Perform restore of the database.
- Database is inconsistent. Restart database to return it to a consistent state.
- Database has one or more table space not in normal state. Perform a roll-forward database.
- Database contains database objects that have a schema name of SYSCAT, SYSFUN, SYSIBM, SYSPUBLIC, or SYSSTAT. Drop the object and re-create the object with a correct schema name (Qualifier). If the object is a table you should first
export its data, drop the table, re-create the table with a correct schema name, and then import or load the data to the new table.

• Database contains database objects that have a dependency on the SYSFUN.DIFFERENCES function. Possible violated objects and the associated action to correct the violation are:
  – constraint - alter table to drop the constraint
  – function - drop the function
  – trigger - drop the trigger
  – view - drop the view

• Database contains user-defined data types that are reserved in the new version. Rename the data types.

• Database contains orphan rows in system catalog tables. Contact IBM technical service representative.

• Cataloged database does not exist. Create cataloged database.

• SYSCATSPACE does not have at least 50% free pages if SYSCATSPACE is a DMS table space and AUTORESIZE is not enabled. Increase available space for SYSCATSPACE table space.

• Database does not allow successful connection as an HADR primary database. Stop HADR on primary database.

• A database has HADR standby role. Stop HADR on the standby database and drop the standby database. Upgrade the HADR primary database. Reinitialize the standby database from the copy of upgraded primary database via restore or db2inidb.

User response: Determine the reason why the database cannot be upgraded and take the corresponding action specified in the explanation.

---

**DBI1206E** Enablement of root feature **feature-name** failed. See log file **log-file-name** for details.

**DBI1207E** Reserving the service for **feature-name** failed.

Explanation: Can not reserve the service in the services file. Possible reasons are:

• The service name and port number are used in services file.

• The service name or port number are not valid values.

User response: Correct the error and rerun the command.

**DBI1208E** Reserving the service for **feature-name** failed.

**DBI1209E** **keyword** is missing in the configuration file.

Explanation: **keyword** is needed in the configuration file to enable the root feature **feature-name**.

User response: Provide a valid value for **keyword** and rerun the command.

**DBI1210E** Unknown system error.

**DBI1211E** Upgrading of the **directory-name** failed.

Explanation: A system error such as running out of disk space or memory has been encountered during the directory upgrade. Instance upgrade failed.

User response: Make sure there is sufficient disk space and memory before you reissue this command again.

**DBI1212W** Upgrade of the local database directory on **path** failed.

Explanation: The upgrade process of the local database directory is not complete because of an unexpected error occurred. Without the local database directory, databases that are cataloged in the local database directory will no longer be accessible.

User response: Perform one of the following actions:

1. Remove the local database directory and re-catalog the databases.

2. Keep the db2mgdbd.err error file and the sqldbdir/sqldddir.bak local database directory backup file that are created in the **path** directory and contact IBM service for instruction of possible ways to repair your directory.

**DBI1213I** Root feature **feature-name** has been enabled successfully.

**DBI1214I** Service for **feature-name** is successfully reserved.

**DBI1215I** Service for **feature-name** has been reserved successfully.

**DBI1216E** Uninstalling the IBM Tivoli System Automation for Multiplatforms (SA MP) failed because the command uninstallSAM was not found in the expected directory: **directory**.

Explanation: db2_deinstall uses the uninstallSAM utility to uninstall the SA MP. db2_deinstall expects to find the uninstallSAM utility in the specified directory, but did not find it there in this case. This might be because the current version of the SA MP is earlier than version 2.2. The option to uninstall the SA MP with the
db2_deinstall command is only supported for SA MP Version 2.2 or higher.

The SA MP was not uninstalled.

**User response:** To uninstall the SA MP manually, use the uninstallSAM command.

For more information about the uninstallSAM command, see the SA MP Base Component documentation.

**DBI1217E** Valid installation identifier not detected.

**Explanation:** All valid identifiers from the image have been removed. The installer cannot determine which valid product(s) are available on the image and cannot display the installation choices.

**User response:** The product image has been modified and does not have a valid identifier for the installer to display the available options. Install using the original DB2 product image.

**DBI1218I** The license certificate `license-certificate-file-name` for the IBM Tivoli System Automation for Multiplatforms (SA MP) was successfully installed.

**Explanation:** SA MP requires a valid license certificate to work with the DB2 High Availability (HA) feature. This license certificate was successfully installed or updated.

**User response:** No response is required.

**DBI1219E** The license certificate `license-certificate-file-name` for the IBM Tivoli System Automation for Multiplatforms (SA MP) was not successfully installed.

**Explanation:** SA MP requires a valid license certificate to work with the DB2 High Availability (HA) feature. This license certificate was not successfully installed or updated.

**User response:** To manually install or update this license certificate for the SA MP Base Component, issue the command:

```
• samlicm -i license-certificate-file-name
```

For more information about the `samlicm` command, see the SA MP Base Component documentation.

**DBI1220W** The upgrade of the node directory on `path` failed.

**Explanation:** The process of upgrading a node directory did not complete because an unexpected error occurred.

**User response:** Perform one of the following actions:
1. Remove the node directory and re-catalog the node entries.
2. Keep the `db2ugnnd.err` error file and the `sqlnodir/sqlnddir.bak` node directory backup file that are created in the path directory and contact IBM service for instruction of possible ways to repair your directory.

**DBI1221W** The node directory is corrupted and cannot be upgraded.

**Explanation:** Either the node directory files are not the same or the node directory file is corrupted.

**User response:** Remove node directory and re-catalog node entry.

**DBI1222W** The system database directory is corrupted and cannot be upgraded.

**Explanation:** Either the primary and backup system database directory files are not the same or system database directory is corrupted.

**User response:** Remove system database directory and recatalog all database entries.

**DBI1223W** The local database directory is corrupted and cannot be upgraded.

**Explanation:** Either the primary and backup database directory files are not the same or the local database directory file is corrupted.

**User response:** An error file `db2mgdbd.err` and a local database directory backup `sqldbdir/sqllddir.bak` are created in the indicated directory path. Keep these two files and contact IBM service for instruction of possible ways to repair your directory. Without the local database directory, databases that are cataloged in the local database directory will no longer be accessible.

**DBI1224E** The target host is not running on the same processor type as the source host.

**Source host:** `source-host`, **processor type:** `source-processor-type`.

**Target host:** `target-host`, **processor type:** `target-processor-type`.

**Explanation:** The source host and target host must run on the same processor type.

**User response:** Ensure all hosts have the same

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processor type. For a list of supported processors, see to the DB2 Information Center.

**DBI1225W** The authentication type of one or more cataloged local databases have been changed.

**Explanation:** One or more cataloged database entries were detected with an authentication type different than the authentication type for the instance that owns these databases. If no action is taken, all cataloged local database entries will inherit the authentication type from the instance.

**User response:** Check the log file for the db2ckupgrade command for a list of the cataloged local database entries that do not have the same authentication type as the instance. You can either change the authentication type of the instance, or you can move the database to another instance that has the desired authentication type. However, before changing the authentication type of the instance, you should make sure that you want all the cataloged local database entries to have the new authentication type.

**DBI1226E** The target host is not running on the same Linux distribution as the source host. Source host: source-host, distribution: source-host-distribution. Target host: target-host, distribution: target-host-distribution.

**Explanation:** The hosts must be running on the same Linux distribution. The target host must have the same Linux distribution as the source host.

**User response:** Ensure all hosts are created on the same Linux distribution. For a list of supported Linux distributions, see the DB2 Information Center.

**DBI1227E** product-name is not a supported DB2 product for non-root installation.

**DBI1228E** The instance inst-name is not a server instance.

**Explanation:** Some configuration tasks can be performed against DB2 server instances only. Such configuration tasks include remote connection and DB2 text search.

**User response:** If the specified instance is a client instance and a DB2 server product is installed, run db2iupdt or db2iupdt to update the client instance to a server instance. Then try the configuration task again.

**DBI1229E** DB2 copy upgrade on Windows is not supported for the IBM Data Server Runtime Client, DB2 Thin Client, or IBM Data Server Driver Package installed at the location installation-location.

**Explanation:** One of the following conditions is true:

- The selected DB2 copy for upgrade is an installation of previous releases of DB2 Run-Time, DB2 Run-Time Client Lite, DB2 Runtime Client, or Data Server Runtime Client.
- The DB2 product being installed is IBM Data Server Runtime or IBM Data Server Driver Package.

The DB2 copy upgrade is not supported from previous releases of DB2 Run-Time, DB2 Run-Time Client Lite, DB2 Runtime Client, or Data Server Runtime Client. Also, DB2 copy upgrade is not supported to IBM Data Server Runtime or IBM Data Server Driver Package.

**User response:** Choose "Install New" to install the IBM Data Server Runtime Client, or IBM Data Server Driver Package in a new location. For IBM Data Server Runtime Client, upgrade the existing client instances to the new DB2 copy with the db2iupgrade command.

**DBI1230E** DB2 copy upgrade is not supported for the selected DB2 copy installed at installation-location.

**Explanation:** DB2 copy upgrade is not supported for the selected DB2 copy due to one or both of the following reasons:

1. One or more DB2 instances have an instance type that is not supported by the DB2 database product that you want to install. On Windows operating systems, upgrading to a DB2 instance type of a lower level is not supported.
2. The DB2 DAS is related to the DB2 installation location from which the DB2 copy upgrade was requested, but the DB2 product to be installed does not support the DB2 DAS.

**User response:** Choose the DB2 product which supports all the instances or DAS related to the DB2 copy to be upgraded.

**DBI1231E** Upgrading a DB2 instance is not supported for the instance instance-name. (The original instance type is original-instance-type. The instance type to be upgraded is upgraded-instance-type.)

**Explanation:** The specified DB2 instance cannot be upgraded to the current DB2 copy. On Windows operating systems, upgrading to a DB2 instance type of a lower level is not supported.

**User response:** Install the DB2 product which
DBI1232E • DBI1241I

supports the instance type and rerun the db2iupgrade command.

DBI1232E Cannot continue with the uninstallation.
Explanation: Possible reasons:
1. The database manager for the instance inst-name is still active.
2. The DB2 Text Search instance service is still active.
User response: Stop the database manager and the DB2 Text Search instance service then rerun the command.

DBI1233E Instance inst-name cannot be dropped.
Explanation: An instance cannot be dropped if the DB2 Text Search instance service is active.
User response: Stop the DB2 Text Search instance service then rerun the command.

DBI1234E The DB2 instance update is not supported for the instance inst-name.
(The original instance type is original-instance-type. The instance type to be updated is updated-instance-type.)
Explanation: The specified DB2 instance cannot be updated. Downgrading the DB2 instance type is not supported.
User response: Install the DB2 product which supports the instance type and rerun the db2iupdt command.

DBI1235E Only one product can be installed at a time.
Explanation: The DB2 installer only supports the installation of one product at a time.
User response: Specify only one product and rerun the command.

DBI1236E The multi-partition instance inst-name cannot be upgraded or updated to a non multi-partition instance.
Explanation: The instance being upgraded or updated is a multi-partition instance. The current DB2 copy to which the instance is being upgraded to or updated does not support multi-partition instances.
User response: If the DB2 instance does not have any partitioned local databases and you want to use non multi-partition DB2 instance, update the current db2nodes.cfg to include only one partition and rerun the command.
If a partitioned local DB2 database with a DB2 instance exists, you should upgrade or update it to a DB2 copy that supports multi-partition instances. DB2 Enterprise Server Edition supports multi-partition instances.

DBI1237E The specified component(s) component-name cannot be uninstalled since the DB2 database manager has not been stopped on all the instances related to the current DB2 installation.
Explanation: The components requested to be uninstalled are related to DB2 database manager. The DB2 database manager has to be stopped on all the instances related to the current DB2 copy before the specified components can be dropped.
User response: Stop the DB2 database manager on all the DB2 instances related to the current installation of DB2 and rerun the command.

DBI1238E The db2cluster_prepare command failed because the following invalid parameter was specified: invalid-parameter.
Explanation: You can create a DB2 managed General Parallel File System (GPFS) for a DB2 pureScale environment using the db2cluster_prepare utility.
This message is returned when the db2cluster_prepare command is called with an invalid parameter.
A GPFS file system was not created.
User response: Run the db2cluster_prepare command again, specifying only valid parameters.

DBI1239I The DB2 Information Center is listening for requests on port port-number

DBI1240E The database manager could not be started.
Explanation: The database manager could not be started when attempting to check if cataloged local databases can be upgraded.
User response: Resolve why the database manager could not be started and try the command again.

DBI1241I The Information Center daemon is already active.
Explanation: The command to start the DB2 Information Center is already processed.
The command cannot be processed.
User response: The application is already listening.
The STOP command to stop the DB2 Information Center completed successfully.

The START command to start the DB2 Information Center completed successfully.

Directory for non-root installation of DB2 - directory

One or more space characters were found in the specified DB2 installation path install-path, which is not supported.

Explanation: The specified installation path of DB2 contains one or more space characters, which is not supported for DB2 installation on the Unix and Linux platforms.

User response: Specify an installation path without space characters and rerun the command.

The db2_deinstall command can only be run from a DB2 installation directory.

Explanation: Starting from DB2 9, the db2_deinstall command can only be run from a DB2 installation path. It can be found under DB2DIR/install, where DB2DIR represents the directory where the DB2 product is installed.

User response: Reenter the command from DB2DIR/install directory.

Root feature feature-name can not be enabled because the feature does not exist in the current installation.

You can only use this version of the db2_deinstall command to uninstall a DB2 version version product.

Explanation: To uninstall a DB2 product, you must use the db2_deinstall command that is at the same version level.

User response: Find the appropriate DB2 media and rerun the command or run the db2_deinstall command from the <DB2DIR>/install directory, where <DB2DIR> represents the installation path of the DB2 product you want to remove.

You can only use this version of the doce_deinstall command to uninstall the DB2 Information Center version version.

Explanation: To uninstall the DB2 Information Center, you must use the doce_deinstall command that is at the same version level.

User response: Find the appropriate DB2 Information Center media and rerun the command or run the doce_deinstall command from the <DB2DIR>/install directory, where <DB2DIR> represents the installation path of the DB2 Information Center you want to remove.

Applications are still using instance instance-name.

Explanation: There are applications that are still running that are using the specified instance. All applications using this instance must be terminated before the command can be completed successfully. You can get a list of the applications that are currently using the instance by issuing the command:

db2 list applications

db2 force application all

Note that some applications may have unexpected behavior when terminated using the indicated command. After all the applications have stopped, stop the database manager using "db2stop" command.

An error occurred while creating the cluster resource for this instance.

Explanation: DB2 requires a resource type to be available in the clustering service but the command to register the resource type failed.

User response: Ensure that the current logon user account has sufficient authority to access the clustering service. Also ensure that the cluster service is active on the system, and that any resources that the DB2 resource you are upgrading depends on are online on the current node.

If the problem persists, contact your IBM service representative for assistance.

An error occurred while registering the DB2 server resource type in the clustering service.

Explanation: DB2 requires a resource type to be available in the clustering service but the command to register the resource type failed.

User response: Ensure that the current logon user account has sufficient authority to access the clustering service.

Register the resource type manually using the utility "db2wolfi.exe i".

If the problem persists, contact your IBM service representative for assistance.
DBI1253N  An error occurred while creating the cluster resource for this instance. The system cannot revert to its original settings.

**Explanation:** An error occurred while creating the cluster resource required for this instance. The existing cluster resource for this instance was removed and could not be restored.

**User response:** Ensure that the current logon user account has sufficient authority to access the clustering service. Also ensure that that cluster service is active on the system, and that any resources that the DB2 resource you are upgrading depends on are online on the current node.

Recreate the resource for the instance using the "Cluster Administrator" available under the administrative tools control panel applet.

If the problem persists, contact your IBM service representative for assistance.

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DBI1254N  An error occurred while upgrading the cluster resource for this instance because the existing resource cannot be removed.

**Explanation:** In order to upgrade the instance, the cluster resource must be removed and a new cluster resource must be created using the DB2 server type. The command was not able to remove the existing cluster resource and therefore cannot upgrade this instance.

**User response:** Ensure that the current logon user account has sufficient authority to access the clustering service. Also ensure that that cluster service is active on the system, and that any resources that the DB2 resource you are upgrading depends on are online on the current node.

If the problem persists, contact your IBM service representative for assistance.

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DBI1255E  The configuration file filename needed to create the specified instance type cannot be found.

**Explanation:** The required configuration file to create the specified instance type cannot be found.

**User response:** Specify the instance type supported by the current installation of DB2 and rerun the command.

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DBI1256E  The db2cluster_prepare command failed because the -instance_shared_dev parameter was not specified.

**Explanation:** You can create a DB2 managed General Parallel File System (GPFS) for a DB2 pureScale environment using the db2cluster_prepare utility.

You must specify the absolute path to the shared device on which the GPFS file system will be created using the required -instance_shared_dev parameter.

This message is returned when the db2cluster_prepare command is called without the -instance_shared_dev parameter.

A GPFS file system was not created.

**User response:** Run the db2cluster_prepare command again, specifying a valid value for the -instance_shared_dev parameter.

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DBI1257I  The DB2 Information Center is not listening for requests.

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DBI1258E  Unable to start DB2 Information Center.

**Explanation:** The command to start the DB2 Information Center was unsuccessful.

**User response:** The messages are written in the log file doc/eclipse/workspace/.metadata/.log from the DB2 Information Center install path.

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DBI1259I  Enabled root feature:

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DBI1260E  Cannot read from response file.

**Explanation:** An attempt was made to read from the given response file failed. Ensure that the response file has read access permission and the given path to the response file is correct.

**User response:** Correct the access permission and the location of the response file and try again.

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DBI1261E  The value is not valid for the keyword.

**Explanation:** The value specified in the response file is not valid for its corresponding keyword. Refer to the sample response file for a list of valid entries.

**User response:** Correct the problem in the following line of the response file and try again.

---

DBI1262E  Unknown keyword detected in the response file.

**Explanation:** The given keyword in the response file is not valid. Refer to the sample response file for a list of valid keywords.

**User response:** Correct the problem in the following line of the response file and try again.

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DBI1263I  Not enabled root feature:
DBI1264E This program failed. Errors encountered during execution were written to the installation log file. Program name: program-name. Log file name: log-name.

Explanation: This message is returned when some processes and operations have failed. Detailed information about the error was written to the log file.

User response: Contact IBM support to get assistance in resolving this issue. Keep the log file intact as this file is an important reference for IBM support.

DBI1265I Reserved service entry:

DBI1266I Refer to the log file log-name for more information.

Explanation: All processed and failed operations have been saved into this log file.

User response: Do not modify this file in any way. This file is for IBM Technical Support reference.

DBI1267I Not reserved service entry:

DBI1268E The file set fileset is not available on the installation media.

Explanation: One of the file sets to be installed is not found on the installation media. If the file set is not located on the installation media then it cannot be installed.

User response: Ensure that the file set is located on the installation media. If the file set is not located on the installation media de-select it and try again.

DBI1269I Summary:

DBI1270E Error detected in the response file.

Explanation: An error has been detected when processing the response file. Install cannot be continued unless the problem has been corrected.

User response: Correct the problem in the following line of the response file and try again.

DBI1271E The configuration file configuration-file is invalid.

DBI1272I To start using the DB2 instance instance-name, you must set up the DB2 instance environment by sourcing db2profile (for Bourne or Korn shell users) or db2cshrc (for C shell users) is sourced.

User response: To set up the DB2 instance environment, you can open a new login window under the ID that owns the DB2 instance, or source the DB2 instance environment by running the appropriate following command under the ID that owns the DB2 instance:

- $HOME/sqlib/db2profile

source $HOME/sqlib/db2cshrc

where $HOME represents the home directory of the user ID that owns the DB2 instance.

DBI1273W The DB2 Text Search instance service could not be configured for the instance. Reason code: reason-code.

Explanation: An attempt to configure the instance for DB2 Text Search failed. Possible reasons are:

1. DB2 Text Search is not installed. Install DB2 Text Search from the installation media then try again.

2. The service name or port number specified is not valid. A valid service name must not exceed 14 characters in length, and a valid port number must be in the range 1024-65535.

3. The port number specified is being used by another application. Choose a port number that is available on the system.

4. The specified service name or port number conflict with existing values in the TCP/IP services file. Provide a service name and a port number that is available on the system.

5. The TCP/IP services file could not be accessed. Check that you have permission to read and write to the services file. Also, ensure that the content of the file is valid and no duplicate entries exist.

6. The default service name is reserved to a port number that is different from the one provided. Provide a service name and port number that do not conflict with existing entries in the TCP/IP services file.
The default service name is reserved to a port number that is being used by another application. Choose a service name and port number that is available on the system.

The service name provided is reserved to a port number that is being used by another application. Choose a service name and port number that is available on the system.

An attempt to create or copy DB2 Text Search directories or files in the instance directory failed.

An attempt to read or write to DB2 Text Search configuration files in the instance directory failed.

An attempt to create the DB2 Text Search instance service Windows service failed.

An unexpected internal error occurred.

User response: Contact your IBM service representative if the suggested action associated with the reason code did not solve the problem.

The DB2 Text Search instance service for the instance could not be stopped.

Explanation: An attempt to stop the DB2 Text Search instance service failed. The Windows service could not be stopped.

User response: Stop the DB2 Text Search server for the instance and try your command again.

The DB2 Text Search instance service for the instance could not be stopped.

Explanation: An attempt to stop the DB2 Text Search instance service failed.

User response: Stop the DB2 Text Search instance service for the instance and try your command again.

The DB2 installation at install-path must be updated while logged in under the user ID that performed the installation.

Explanation: You can only update the DB2 installation by running the installFixPack command under the user ID that performed the DB2 installation.

User response: Refer to the log file for troubleshooting. Resolve the problem and try the command again. If the problem persists, contact your IBM service representative.

Install path and runtime path do not match

Explanation: When setting up the runtime path with db2chgpath, a path was given that does not match the current path that DB2 is running from.

User response: Perform one of the following actions:

- Move the install path to match the runtime path.
- Rerun db2chgpath with the correct runtime path, to match the current install path.

Warning issued from the response file.

Explanation: A warning has been raised when processing the response file. DB2 Installer will carry on without stopping.

User response: If required, correct the problem in the following line of the response file and try again.

Notice issued from the response file.

Explanation: A notice has been issued when processing the response file. DB2 Installer will carry on without stopping.

User response: This is for your information only. No action is required.

The db2cluster_prepare command failed because one or more parameters were specified multiple times.

Explanation: You can create a DB2 managed General Parallel File System (GPFS) for a DB2 pureScale environment using the db2cluster_prepare utility.

This message is returned when the db2cluster_prepare command is called with a duplicate parameter.

A GPFS file system was not created.

User response: Run the db2cluster_prepare command again, specifying each parameter only once.

The database manager configuration file could not be initialized.

Explanation: An error occurred when attempting to initialize the database manager configuration file. A DB2 instance could not be created or upgraded.

User response: Refer to the log file for troubleshooting. Resolve the problem and try the command again. If the problem persists, contact your IBM service representative.
The database manager configuration files could not be merged. The original configuration file was saved as \textit{dbm-cfg-file-name}. (The original instance type is \textit{original-instance-type}. The instance type to be upgraded or updated is \textit{instance-type-upgraded}.)

\textbf{Explanation:} An error was detected when attempting to merge two database manager configuration files. The previous database manager configuration file could not be merged with the new database manager configuration file. This error could happen if the instance is being upgraded or updated from a higher instance type to a lower instance type.

If the instance update or upgrade was successful, a new instance is created using the default configuration settings for the instance-type-upgrade.

This error could happen if the instance is being upgraded or updated from a higher instance type to a lower instance type. The new instance uses the default configuration settings for the new instance type if update or upgrade was successful.

\textbf{User response:} Check the values in the new database manager configuration file and update the parameters as required using the \textit{dbm-cfg-file-name} original configuration file.

\textbf{DBI1283E} Unable to update the communication information for instance.

\textbf{Explanation:} The SVCENAME parameter and/or the DB2COMM registry values could not be updated during instance creation.

\textbf{User response:} Make sure that the SVCENAME parameter is set to “\textit{<profile-name>}” in the database manager configuration file and update using \texttt{db2 update dbm cfg using SVCENAME “\textit{<profile-name>}”}.

Also update the DB2COMM variable to tcpip by running \texttt{db2set DB2COMM=tcpip}

\textbf{DBI1284I} \textit{feature-name} has been set successfully.

\textbf{DBI1285E} Setting \textit{feature-name} failed. See log file \textit{log-file-name} for details.

\textbf{DBI1286E} The utility \textit{utility-name} was not found.

\textbf{Explanation:} The utility must be available on your system to install or update DB2 products.

\textbf{User response:} Ensure that the utility is installed and its location is in the PATH environment variable. Re-enter the command.

\textbf{DBI1287E} There has been an attempt to use \texttt{db2_deinstall} on an image for a platform that does not match the current platform \textit{platform} on which it is being run.

\textbf{Explanation:} Possible causes include:

- This DB2 install image is not valid for the current platform.
- The current platform is not supported by DB2.

\textbf{User response:} Remove DB2 using the DB2 install image that corresponds with the current platform \textit{platform} or directly run the command \texttt{db2_deinstall} from the directory ‘\texttt{DB2DIR/install}’, where \texttt{DB2DIR} is the DB2 installation path.

\textbf{DBI1288E} The execution of the program \textit{program-name} failed. This program failed because you do not have write permission on the directory or file \textit{directory-or-file-name}.

\textbf{Explanation:} Reasons for this error include:

- The given directory or file is on a local file system of the current machine, but the user id running the program does not have write permission for that directory or file.
- The given directory or file is on an NFS mounted file system mounted on the current machine, but the current user id does not have write permission for that directory or file.
- The current user id does not have write permission for the given directory or file located at the target partition. This can happen when the current machine’s operating system is IBM AIX Version 6.1 or later and a Workload Partition root user id is attempting to write to a Global Partition.
- The current user id does not have write permission for the directory or file located at the target zone. This can happen when the current machine’s operating system is Sun Solaris 10 or later and a local zone root user id is attempting to write to a global zone.
- The current machine is running the Sun Solaris Operating System in a local zone which does not have the write permission for the directory or file located on the global zone.

\textbf{User response:} There are several ways to respond to this message:

- Run the program with a user id that has write permission for the given directory or file.
- Modify the permissions of the directory or file to allow the user id to write to that directory or file, and rerun the program.
- Modify the authority of the user id to allow that user id to write to the given directory or file, and rerun the program.
DBI1289W  The DB2 install or instance utility
utility-name failed to configure file
permission and ownership properties
for files related to DB2 Advanced Copy
Services (ACS). See the log file
log-file-name for more information.

Explanation: The DB2 install or instance utility
attempted to configure permission and ownership for
DB2 ACS files that are located in the sqllib/acs
directory under the DB2 instance home directory. The
given log file contains information about why the DB2
install or instance utility failed.

DB2 ACS might not be usable because the DB2 install
or instance utility failed to configure permission and
ownership for these files.

User response: If you will not be using DB2 ACS, you
do not need to reinstall IBM Data Server, or recreate the
DB2 instance.

If you will be using DB2 ACS, perform the following
steps:
1. See the given log file for more information about
the failures.
2. Correct the cause of the failures and take the action
recommended in the log file.

For more information about configuring DB2 ACS, see
the topic called "Configuring DB2 Advanced Copy
Services" in the DB2 Information Center.

DBI1290E  An attempt to create the profile registry
profile-name failed.

Explanation: An error occurred when creating the
profile registry. One of the following situations
occurred:
• Incorrect access permission on the top directory of
the current DB2 installation.
• There is not enough space on your file system.

User response: Check the directory permissions for
the top directory of the current DB2 installation.

DBI1291E  The instance instance-name was not
found in the instance list.

Explanation: The specified instance was not found in
the instance list.

User response: Verify that the list of instances as
reported by the "db2list" command is correct. Retry
the command with a valid instance name.

DBI1292E  The instance instance-name is already in
the instance list.

Explanation: The instance that is being created or
upgraded is already in the instance list.

User response: Use a different instance name that is
not part of the instance list as reported by the db2list
command.

DBI1293E  There is no DB2 Query Patroller Server
set up on this system.

User response: If DB2 Query Patroller was not
installed via the DB2 Installer, please use the Installer
to properly set up an instance for use with the DB2
Query Patroller Server. If one has been set up, then
verify that it is recorded in the default.env file, and that
the file is world readable. default.env can be found in
/usr/opt/db2_08_xx, where xx is 01 or FPn,
where n is the FixPak number
or /opt/IBM/db2/V8.x, where x is 1 or FPn,
where n is the FixPak number

DBI1294W  The DB2 install or instance utility
utility-name failed to start DB2 Advanced
Copy Services (ACS.) See the log file
log-file-name for more information.

Explanation: Before you can use DB2 ACS, the
services must be started. The DB2 install or instance
utility attempted to start the services, but failed.

You can use the DB2 instance, but you cannot use DB2
ACS until the services are started.

User response: To start DB2 ACS, perform the
following steps:
1. See the given log file for more information about
the failures.
2. Correct the cause of the failures.
3. Start DB2 ACS manually.

For more information about manually starting DB2
ACS, see the topic called "Starting DB2 Advanced Copy
Services" in the DB2 Information Center.

DBI1295E  The instance list could not be updated.

Explanation: The instance could not be added to or
removed from the instance list. An error has occurred
when adding or removing the instance from the
instance list. One of the following situations occurred:
• Incorrect access permission on the registry profile.
• Profile registry is not set up properly.
• There is not enough space on your file system.

User response: Check the file permissions on the
instance list profile under the top directory of the
current DB2 installation.
For more information about manually disabling DB2 Advanced Copy Services (ACS), see the topic called "Disabling DB2 Advanced Copy Services" in the DB2 Information Center.

**DBI1297E**  
The instance profile `profile-name` could not be updated.  

**Explanation:** An error occurred when updating the instance profile registry. One of the following situations occurred:
- Incorrect access permissions on the instance profile registry.
- Profile registry is not set up properly.
- There is not enough space on your file system.

**User response:** Check the file permissions on the instance list profile under the top directory of the current DB2 installation.

**DBI1298E**  
The DB2 install or instance utility `utility-name` failed to disable DB2 Advanced Copy Services (ACS). See the log file `log-file-name` for more information.  

**Explanation:** Before you can drop a DB2 instance, or remove a non-root install of IBM Data Server, DB2 ACS must be stopped. The DB2 install or instance utility attempted to disable the services, but failed.

You cannot drop a DB2 instance, or remove a non-root install of IBM Data Server until DB2 ACS is disabled.

**User response:** To disable DB2 ACS, perform the following steps:
1. See the given log file for more information about the failures.
2. Correct the cause of the failures.
3. Disable DB2 ACS manually.

For more information about manually stopping DB2 Advanced Copy Services (ACS), see the DB2 Information Center.

**DBI1299E**  
DB2 profile registry variable `variable-name` was not nulled because it is a member of an aggregate set.  

**Explanation:** Several DB2 profile registry variables can be grouped together and set as one aggregate DB2 profile registry variable. When you configure an aggregate DB2 profile registry variable, the DB2 profile registry variables that are members of that set are automatically configured to their predefined values.

DB2 profile registry variables that are members of an aggregate set, can not be nulled using the following db2set command syntax:

```
   db2set variable-name=
```

The variable was not nulled.

**User response:** To null a DB2 profile registry variable that is a member of an aggregate set, use the following db2set command syntax to set the variable to NULL:

```
   db2set -null variable-name
```

**DBI1300N**  
db2set displays, sets, or removes DB2 profile variables.  

```
   db2set [variable=[value]]
   [-g | -i instance [member-number]]
   [-all]
   [-null]
   [-r [instance] [member-number]]
   [-im | -immediate]
   [-info]
   [-n DAS node|-u user[-p password]]
   [-I | -lr]
   [-v]
   [-ul | -ur]
   [-? | -h]
```

**Explanation:** The command options are:

- `-g`  
  Access the global profile variables.

- `-i`  
  Specifies the instance profile to use instead of the current or default.

- `-n`  
  Specifies the remote DB2 Administration Server node name.

- `-u`  
  Specifies the user ID to use for the Administration Server attachment.
DBI1301E • DBI1304E

-ul
Access the user profile variables

-ur
Refreshes user profile variables

-p
Specifies the password to use for the admin server attachment.

-r
Resets the profile registry for the given instance. The default/current instance will be used if none is provided.

-im | -immediate
Specifies that the update takes effect the next time an SQL statement is compiled for registry variables that support this feature.

-info
Returns the properties of the specified variable. The properties state whether an immediate change is supported by the variable and whether the change is immediate by default

-l
Lists all instance profiles.

-lr
Lists all supported registry variables.

-v
Verbose mode.

-?
Displays the command help message.

-h
Same as -? option.

-all
Displays all occurrences of the local environment variables as defined in:
- The environment, denoted by [e]
- The user level registry, denoted by [u]
- The node level registry, denoted by [n]
- The instance level registry, denoted by [i]
- And
- The global level registry, denoted by [g]

-null
Sets the variables value to null at the specified registry level to prevent looking up the value in the next registry level as defined in the variable value search order.

Notes:
- db2set with no variable name displays all defined variables.
- db2set <variable> displays <variable>’s value.
- db2set <variable>=(nothing) deletes the <variable>.
- db2set <variable>-=<value> modifies the <variable>’s value.
- db2set <variable> -null sets <variable>’s value to NULL.
- db2set <variable> -all displays all defined <variable>’s values.
- db2set -ur refreshes the current user profile.
- db2set <variable>=-ul displays defined <variables> at the user level.
- db2set -all displays all defined variables in all registry levels.

User response:

DBI1301E The registry variable was not updated because an invalid value was specified.
Explanation: You can configure many aspects of DB2 database functionality by setting DB2 profile registry variables. You can set DB2 profile registry variables by using the db2set command.
This message is returned when an attempt is made to use the db2set command to set a DB2 profile registry variable to a value that is invalid.
User response:
1. Determine the range of valid values for the registry variable.
2. Call the db2set command again, specifying a valid value for the specified registry variable.

DBI1302E Invalid parameter detected.
Explanation: An invalid parameter was used.
User response: Use the -? option for the usage help message.

DBI1303W Variable not set.
Explanation: The variable was not set in the profile registry.
User response: No further action is required.

DBI1304E Unexpected error.
Explanation: The tool encountered an unexpected system error.
User response: Contact your DB2 service representative.
DBI1305E The profile registry was not found.
Explanation: The target machine does not have a profile registry setup.
User response: Create the registry on the target machine by installing DB2.

DBI1306N The instance profile is not defined.
Explanation: The instance is not defined in the target machine registry.
User response: Specify an existing instance name or create the required instance.

DBI1307N The instance node profile is not defined.
Explanation: The instance node is not defined in the target machine registry.
User response: Create the registry by installing the required DB2 product parts.

DBI1308E Out of memory condition encountered.
Explanation: The tool encountered an “out of memory resource” error.
User response: System is low on memory resources. Terminate non-essential applications or try again later.

DBI1309E System error.
Explanation: The tool encountered an operating system error.
User response: A system error was encountered during registry access. Ensure that there is enough space on the file system where the registry is located, and that there is a valid LAN connection if the registry is remote.

DBI1310E Remote registry access is not supported.
Explanation: The tool does not support the remote registry option.
User response: Consult the Command Reference on how to access the registry remotely.

DBI1311I Listing registry instance profiles...

DBI1312I Listing defined global variables...

DBI1313I Listing defined instance variables...

DBI1314I Listing all supported registry variables...

DBI1315E The specified variable is not an aggregate type registry variable.
Explanation: To display the group definition, the registry variable must be an aggregate type registry variable.
User response: Do not specify the -gd option or specify a valid aggregate variable name when using the -gd option.

DBI1316E Instance is not MPP.
Explanation: The target instance is not a DB2 MPP instance.
User response: Choose an MPP instance.

DBI1317E Instance node already exists.
Explanation: A duplicate instance node already exists.
User response: Choose a different instance node.

DBI1318E The value specified for the registry variable is too long.
Explanation: The value specified for the registry variable exceeds the maximum limit. The maximum length for a registry variable value is 255 bytes.
User response: Specify a shorter value for the registry variable.

DBI1319W The variable variable-name has been explicitly set and will not be affected by the configuration of the aggregate variable aggregate-var-name.
Explanation: An aggregate registry variable has been configured to a value whose group definition contains settings for a variable which has been explicitly configured. The explicitly configured value will be retained.
User response: If desired, explicitly configure the variable.

DBI1320W WARNING:
Explanation: This script is used to gather information useful to IBM Support to debug the problems you may be experiencing. This information may be of a sensitive nature. You may wish to edit the output file, db2ginfo.txt, before sending it to IBM Support.
User response: To signal your awareness and acceptance of the warning, run this script with the -y flag specified.
The ulimit setting for the DB2 instance instance-name does not comply with the recommended values for DB2 on the current platform.

Explanation: The ulimit setting for the current non-root DB2 instance has values for 'data' and 'nofiles' smaller than the values recommended by DB2 on the current platform. Set the 'data' to 'unlimited' and 'nofiles' to '65536' or the maximum value allowed on the system. If setting 'data' to 'unlimited' cannot be done, the following formula can be used as reference to decide the estimate value in kilobytes of 'data' required by DB2 for the current platform:

\[
\text{default_data_ulimit} + \left( 20 \times \text{max_concurrent_active_databases} \right) + \left( \text{estimated_max_connections} \times \text{max_querydegree} \times 8192 \right)
\]

where:
1. default_data_ulimit is the default value of 'data' of ulimit for a user on the system. For example, the default value is 262144 on IBM AIX system.
2. max_concurrent_active_databases is the maximum number of concurrent active databases for the DB2 instance.
3. estimated_max_connections is the estimated maximum number of database connections for the DB2 instance.
4. max_querydegree is the value of the parameter "MAX_QUERYDEGREE" for DB2 database manager configuration when the INTRA_PARALLEL is enabled in the DB2 database manager configuration. If INTRA_PARALLEL is not enabled, the max_querydegree's value is 1.

User response: Ask the system administrator with root privilege to update the ulimit setting for the current DB2 instance.

Usage:
```
db2iprune -r input_file_path
-o destination_dir_path | -c
[-t trace_file]
[-l log_filename]
[-h|-?]
```

Explanation: An incorrect argument was entered for the db2iprune command. Valid arguments for this command are:

- **-r input_file_path**: Specifies the full path to the input file that is to be used. The input file, or .prn file, contains a full list of removable components and is used to indicate which products, components, and languages you would like removed from the installation image.

- **-o destination_directory_path**: Specifies the full path to where the new DB2 pruned image is copied. Make sure that you have write access to this directory.

- **-c**: Specifies that you want to prune the source installation image directly. Ensure that the source installation image directory is writable.

- **-t trace_file** (On Linux and UNIX operating systems only.)
  Turns on the debug mode. The debug information is written to the file name specified.

- **-l log_filename**
  Enables error logging. On Linux and UNIX operating systems, if the -l option is not specified, the default log file name is tmpdir/db2iprune_username.log. On Windows operating systems, the log file db2iprune.log is written to the destination directory.

- **-h|-?**
  Displays the usage information.

User response: Enter the command again using the valid parameters. For details, see the DB2 Information Center for examples and usage notes for the db2iprune command.

Usage:
```
db2rspgn -d output_directory
[-i instance]
[-t trace-file]
[-h|-?]
```

Explanation: An incorrect argument was entered for the db2rspgn command. Valid arguments for this command are:

- **-d**
  Specifies the full path to the output directory for generated files. If the output directory specified is an existing directory, the directory must be empty and writable. If the output directory specified does not exist, the new directory is created if the location is writable. This parameter is mandatory.

- **-i instance**
  Generates the specified instance configuration and saves this information in the generated response file and instance configuration profile. This parameter is optional. By default, all instances are selected. To specify multiple instances, specify this parameter multiple times. For example, -i db2inst1 -i db2inst3.

- **-t trace-file**
Linux and UNIX operating systems only. Turns on the debug mode. The debug information is written to the file name specified as trace-file.

-h | -?  
Displays help information.

User response: Enter the command again using the valid parameters.

**DBI1324W** Support of the command-name command is deprecated. For more information, see the DB2 Information Center.

**DBI1325E** The command-name command has failed.

**Explanation:** At least one instance is still running the DB2 Text Search instance service.

**User response:** Stop the DB2 text search instance service and re-run the command.

**DBI1326W** The Text Search instance services failed to restart.

**Explanation:** Before running the DB2 instance command, the Text Search instance service was not stopped. The DB2 process stopped the Text Search instance service. However, the DB2 process is unable to restart the Text Search instance service.

**User response:** Manually restart the Text Search instance service.

**DBI1327E** The db2icrt command failed because the home directory of the instance owner is a subdirectory under the directory in which the DB2 product is installed.

**Explanation:** The home directory of the instance owner cannot be a subdirectory under the directory in which the DB2 product is installed.

For example, if the DB2 product is installed in the directory named /opt/db2v97, the home directory of the user who will be the instance owner cannot be in any directory under /opt/db2v97.

This message is returned in the following scenario:
- On Linux and UNIX operating systems: the home directory of the instance owner is a subdirectory under the directory in which the DB2 product is installed.

The DB2 instance was not created.

**User response:**
1. Configure that the user environment and directory structure so that the home directory of the instance owner is not a subdirectory of the directory in which the DB2 product is installed.
2. Run the db2icrt command again.

**DBI1328E** The db2cluster_prepare command failed because no value was specified for the -instance_shared_dev parameter.

**Explanation:** You can create a DB2 managed General Parallel File System (GPFS) for a DB2 pureScale environment using the db2cluster_prepare utility.

You must specify the absolute path to the shared device on which the GPFS file system will be created using the required -instance_shared_dev parameter. The db2cluster_prepare utility will create the GPFS file system in the specified location.

This message is returned when the db2cluster_prepare command is called without a value specified for the -instance_shared_dev parameter.

A GPFS file system was not created.

**User response:** Run the db2cluster_prepare command again, specifying a value for the -instance_shared_dev parameter.

**DBI1329I** Usage:

db2val [-h | -?]
[-o]
[-i inst_name1] | [-a]
[-b db_name]
[-t trace_file]
[-d]
[-s]
[-l log_file]

**Explanation:** An invalid argument was entered for the db2val command. Valid arguments for this command are:

- **-o**
  Specifies that only the installation files will be validated; validation of the instance, database, and extended security will not be performed.
  If this parameter is specified, the -i, -a, -b, and -s parameters are ignored.

- **-i inst_name**
  Specifies that the name of the instance to validate. To specify validation of multiple instances, specify this parameter multiple times. For example, -i inst1 -i inst2.
  - On Windows operating systems, if this parameter is not specified, the current instance will be used as the default value.
  - On Linux and UNIX operating systems, this parameter can only be used by root users in a root installation of a DB2 copy.

- **-a**
  Validates all instances in the DB2 copy. On Linux and UNIX operating systems, this
parameter can only be used by root users in a root installation of a DB2 copy. This option overrides the -i option.

-b db_name
Validates the local database creation and connection with the given database name. This parameter is ignored in the following scenarios:
• the instance to be validated is a client instance
• -a and -i are not specified when db2val is run by root users (on Linux and UNIX only).

-t trace_file
Specifies the full path and name of trace file specified by trace_file.

-d
This parameter is deprecated and might be removed in a future release. Use the -t parameter instead. Valid only on Linux and UNIX operating systems. Use this parameter only when instructed by DB2 Support. Turns the debug mode on.

-s
Starts the DB2 database manager for the specified instance that is part of a partitioned database environment. This parameter overrides parameter -i.

-l log_file
Writes the log to the file name specified. Unless the -l parameter is specified, the default log path is:
• On Linux and Unix, /tmp/db2valxx.log
• On Windows, My Documents\DB2LOG\db2valxx.log

where xx is a generated value.

-h | -?
Displays the usage information.

User response: Enter the command again using the valid parameters.

DB11330W  •  DB11334E

DB11331E  Installation file validation for the DB2 copy copy_name failed.
Explanation: Some features or components have missing files or are the wrong size.
User response: To repair the DB2 installation, from the Add or Remove Programs tool, select Change for the DB2 copy, and select the Repair option. Rerun the db2val command.

DB11332E  Missing template file for IWH.environment.
Explanation: The template file for IWH.environment is needed.

DB11333I  Installation file validation for the DB2 copy copy_name was successful.

DB11334E  Installation file validation failed for the DB2 copy installed at installation-location. Reason code = reason-code.
Explanation: You can verify the basic functions of a DB2 copy, checking the state of installation files, instance setup, and local database connections, by using the db2val utility.

This message is returned when the db2val utility detected problems with the DB2 copy that is installed at the given location.

The reason code indicates more specifically what the problem is:

1  Some features or components have missing files or files with the wrong size.

2  The installation image inside the install path has missing files.

3  The embedded runtime path for some DB2 library or executable files is not set properly.

4  The installation path is not accessible to the database manager.

5  The /etc/services file is not accessible to the database manager.

User response: Respond to this message according to the reason code:

1  Respond to reason code 1 in one of the following ways:
If your DB2 copy has the DB2 pureScale Feature installed:
1. Reinstall the DB2 copy to a new path by running the installFixPack command from the installation media, specifying the -p <new-path> option and the -f nobackup option.
2. Update the instance to the new copy using the db2updt command.
3. Run the db2val command.

If your DB2 copy does not have DB2 pureScale installed:
1. Reinstall the DB2 copy to the same path by running the installFixPack command, specifying the "-f nobackup" option.
2. Run the db2val command.

Copy the installation image into <DB2-installation-path>/sd directory.

Set the embedded runtime path by using one of the following methods:
- For root installations, run <DB2-installation-path>/install/db2chgpath as root.
- For non-root installations, run <DB2-installation-path>/install/db2chgpath as the copy owner.

Then run the db2val command.

Modify the access permissions for the installation path so that the DB2 database manager can access the installation path.

Modify the access permissions for the /etc/services file so that the DB2 database manager can access that file.

DBI1335I Installation file validation for the DB2 copy installed at installation_location was successful.

DBI1336E The partitioned database environment validation for the instance instance_name failed. Reason code = reason_code.

Explanation:
1. The format of the DB2 node configuration file (db2nodes.cfg) is incorrect.
2. The other database partition servers are not accessible.

3. The start and end ports for Fast Communication Manager (FCM) are not reserved properly on all database partition servers.
4. The instance profile directory is not accessible from all database partition servers.
5. The instance service is running under a non-domain account. This will prevent the DB2 instance from starting.
6. The installation directory for the instance is not accessible from all database partition servers.
7. The code level on each database partition server is not consistent.
8. On Windows operating systems, if the db2val command is run to validate a multiple partition instance, domain user account authority is required.
9. An unexpected internal error occurred.

User response:
1. Ensure the format of db2nodes.cfg follows the DB2 standard.
2. Check the .rhosts file is configured on all the partitions. If the DB2RSHCMD registry variable is set to ssh, ensure the ssh remote shell utility is available.
3. Ensure the start and end ports for FCM are free and reserved on each computer participating in the partitioned database environment. The start port should be the same on each participating computer.
4. Ensure the instance profile directory on the instance-owning machine is shared among all the database partition servers. The instance profile directory should be in the UNC format.
5. Use a domain account for the instance service on all database partition servers.
6. Ensure the installation directory is accessible from all database partition servers.
7. Ensure the same code level is installed on all computers participating in the partitioned database environment.
8. Log on as a user with the domain user account authority and retry the command.
9. Rerun the db2val command. If this error persists, contact your IBM service representative.

DBI1337I The partitioned database environment validation for the instance instance_name was successful.

DBI1338E The validation of instance instance_name failed. Reason code = reason_code.

Explanation:
1. The default instance is not set.
2. Some files in the instance directory are damaged. The symbolic links of the files are not pointing to
the current DB2 copy installation path, and the file permission and ownership might have been changed.

3. The DB2 Extended Security setup does not allow the current user to start an instance. If Extended Security is enabled, the user needs to be in the DB2ADMNS group.

4. To start the instance, read permission is required to the /etc/services file.

5. The appropriate authority is required to validate this instance.

6. The partitioned database environment setting is not correct.

7. The instance failed to start because of system errors.

8. An unexpected internal error occurred.

User response:
1. Set the DB2INSTDEF profile registry variable to an instance in the DB2 copy.
2. Run the db2iupdt or db2nrupdt command with the -k option for the instance.
3. Add the current user to the DB2ADMNS group and rerun the command.
4. Ensure you have read permission to the /etc/services file.
5. For authorization details, see the db2val command in the DB2 Information Center. Then log on as a user with the appropriate authority, and retry the command.
6. Check the partitioned database environment validation log file for details.
7. Check the log file for details.
8. Rerun the db2val command. If this error persists, contact your IBM service representative.

DBI1339I The db2val command completed successfully. For details, see the log file log_path.

DBI1341E The validation tasks of the db2val command failed. For details, see the log file log_path.

DBI1345W Read permission to the /etc/services file is not granted to every user. This lack of permission can cause the instance creation to fail.

Explanation: Creating an instance requires the users who manage the instance to have read permission to the /etc/services file.

User response: Ensure users have read permission to the /etc/services file.

DBI1346W Path path defined in the DFTDBPATH database manager configuration variable is not accessible on the current database partition server. This can cause the database creation to fail.

DBI1347W The db2val command completed with warnings. For details, see the log file log_path.

DBI1348W Read and execute permissions to the installation directory are not granted to everyone. This lack of permission might cause problems when using your DB2 product.

DBI1349W Installation file validation completed with warnings for the DB2 copy installed at installation_location. For details, see the log file log_path.

DBI1350E The database validation failed for the instance instance_name. Reason code=reason_code.

Explanation: Database validation failed because of one of the following reasons:
1. Database creation failed because of system errors.
2. Database connection failed because of system errors.
3. An unexpected internal error occurred.

User response: Check the log file for details, or rerun the db2val command. If this error persists, contact your IBM service representative.
You must be the instance owner to run this command.

Explanation: To run this command, you must be the DB2 Query Patroller Server instance owner.

User response: Verify that the DB2 Query Patroller Server instance is correctly recorded in the file default.env. Log in as the DB2 Query Patroller Server instance owner and issue the command again. default.env can be found under the top directory of the current DB2 installation.

The instance instance-name is not an ESE instance.

Explanation: DB2 Query Patroller Server/Agent must be created on an ESE instance.

User response: Run this command again using a valid ESE instance name, or you may create and set up a new ESE instance first before running this command again.

DB2 Query Patroller Server has been set up on an instance already.

Explanation: DB2 Query Patroller Server can be set up on one DB2 instance only.

User response: Run the command dqplist to find out the named of the instance being used as the DB2 Query Patroller Server. If the instance name is correct then there is no need to run dqpcrt to set up a server. For setting up an agent you need to use the correct instance name. If this instance is no longer being used for that purpose, run the command
dqpdrop inst_name

to remove it. Then re-run the dqpcrt command again.

The instance instance-name is not an DB2 Query Patroller Server instance.

User response: Use dqplist to find out the proper server instance name and re-run the command again.

Creating a DB2 Query Patroller Agent on the named instance.

-h1-? display the usage information

The -a option is only valid on a multiple partitioned database instance.

User response: Re-enter the command with the proper syntax.

Usage: dqpcrt [-h|-?] -s|-a -p PortName InstName

Creating a DB2 Query Patroller Server on the named instance.

Explanation: An incorrect argument was entered. Valid arguments for this command are:

InstName
name of the instance that you wish to remove the DB2 Query Patroller Server from

-h1-? display the usage information

User response: Re-enter the command with the proper syntax.

Usage: dqplist [-h|-?]

This command can only be issued on the node where the DB2 Query Patroller Server was created.

User response: Re-enter the command with the proper syntax.

Failed to modify the DB2 Query Patroller profile files.

Explanation: An attempt to update the dqpprofile and/or dqpcshrc files have failed. Possible causes can be

- These files do not exist in the sqllib directory under the instance home directory.
- There is no write permission on these files.
- Failure to create a temporary file in /tmp directory.

User response: Check the existence and permission on these files. Verify that you can write to /tmp. Issue the command again.

Unable to remove the DB2 Query Patroller Server from instance instance-name.

Explanation: An attempt to remove the DB2 Query Patroller Server from the named instance has failed.

User response: Manually remove the file sqllib/cfg/dqplevel from the instance owner's home
directory. Also edit the file default.env and remove the DQPSERVER line from this file. default.env can be found under the top directory of the current DB2 installation.

**DBI1360E**  Unable to complete DB2 Query Patroller set up.

*Explanation:* An attempt to set up the DB2 Query Patroller Server has failed. Possible cause include:
- Failed to create a database for the DB2 Query Patroller Server
- Failed to create a database partition group on the specified node
- Failed to create a table space in the nodegroup

*User response:* If the database or the database partition group creation failed, try to create them manually and re-run the command.

If it failed at creating the table space, check to see that you have write permission to the path you have designated. Try to create the table space manually.

**DBI1361E**  DB2 Query Patroller Server code has not been installed.

*Explanation:* The DB2 Query Patroller Server code has not been installed, and is required for the current operation to complete.

*User response:* Install the DB2 Query Patroller Server code, and try the command again.

**DBI1362W**  IWM schema objects have been detected.

*Explanation:* DB2 has detected IWM schema objects, possibly from a previous install of IWM.

*User response:* If you wish to keep the existing IWM schema objects, there is nothing to do. If you wish to remove them and re-create new ones, re-issue the dqpsetup command with the -o flag.

**DBI1363E**  Failed to create IWM schema objects.

*Explanation:* An attempt to create the IWM schema objects has failed.

*User response:* Verify that the files db2_qp_schema and iwm_schema.sql are both in the directory /usr/opt/db2_08_xx/bin, where xx is 01 or FPn, where n is the FixPak number.

If both files exist, then the output of the IWM schema creation procedure can be found in /tmp/iwmschcr.log. Correct any error and re-run the dqpsetup command again.

**DBI1364E**  No previous DB2 Query Patroller schema objects exist.

*Explanation:* No previous DB2 Query Patroller schema objects exist to be migrated.

*User response:* Run dqpsetup again with the correct syntax. Use `dqpsetup -h` to see the syntax.

**DBI1365E**  Node number is not defined.

*Explanation:* The node number is not defined in the db2nodes.cfg.

*User response:* Examine the db2nodes.cfg file and make sure the entry you want is there. Enter the command again using the correct node number exactly as recorded in the db2nodes.cfg file.

**DBI1366E**  The container sms-path is already in use.

*Explanation:* The directory named as a container for the table space already exists.

*User response:* Run the command again using a different path for the container for the table space.

**DBI1367E**  Failed to bind the files listed in bind-list.

*Explanation:* There was a problem binding the bind files listed in named file(s).

*User response:* Perform the binding manually.

**DBI1368E**  Failed to connect to DQP database db2dbdft.

*Explanation:* The database likely does not exist.

*User response:* Specify that you would like to setup a new DQP instance using all the required parameters to dqpsetup. This instance cannot be upgraded.

**DBI1369W**  The partitioned database environment validation for the instance instance_name completed with warnings.

**DBI1370W**  Unable to modify the .profile or the .login file of user inst-name.

*Explanation:* DB2 has failed to modify the .profile file or the .login file of this user. These files may not exist, or you may not have write permission to them.

Without the modification you need to set your environment manually each time when you log in as this user to use DB2 Query Patroller.

*User response:* Set up the application development environment.
Missing arguments for setting up a Query Patroller Server.

Explanation: A Query Patroller instance must be set up as server when DB2 Query Patroller Server is installed. Therefore the following arguments must be supplied:
1. Node group.
2. Node number.
3. Database name.
4. Table space.
5. Result table space.
6. Table space path.
And optionally:
DMS Table space size.

User response: Specify the required and/or optional arguments in the response file.

Cannot set up a Query Patroller server instance.

Explanation: To set up a Query Patroller server instance, you must have DB2 Query Patroller Server installed.

User response:
• Install DB2 Query Patroller Server.
• If you wish to set up a Query Patroller agent, take out the arguments for node group, node number, database name, table space, result table space, table space path and DMS table space size.

Cannot set up Query Patroller server instance when creating a new ESE instance.

User response: Create the ESE instance and set up the instance as a Query Patroller server in separate steps.

The validation of instance instance_name completed with warnings.

Cannot set up a Query Patroller instance without ESE installed.

User response: Install ESE, and DB2 Query Patroller Agent/Server.

To set up a Query Patroller instance, you need to provide the service name and port number of the IWM user.

User response:
• If you wish to set up a Query Patroller instance, enter the service name and port number of the IWM user.

db2isim was unable to locate a suitable Java Runtime Environment on your computer. If a Java Runtime Environment jre-version is present, set your JAVA_HOME environment variable and run the command again. Otherwise, refer to the DB2 Installation Requirements for information on the recommended Java environment for your operating system. If you need to use your own JRE, set DB2USELOCALJRE=true.

db2setup was unable to locate a suitable Java Runtime Environment on your computer. If a Java Runtime Environment jre-version is present, set your JAVA_HOME environment variable and run the command again. Otherwise, refer to the DB2 Installation Notes for information on the recommended Java environment for your operating system. If you are unable to obtain a suitable Java Runtime Environment you can install this product from the command using the doc_install script. Run this script without any parameters for information on how to use it. If you need to use your own JRE, set DB2USELOCALJRE=true.

The db2val command is running. This can take several minutes.

The database db_name cannot be removed.

Explanation: The database might be in use by other applications.

User response: To manually drop the database, run the following command: db2 drop db db_name

Database validation for instance instance_name completed with warnings.

The database manager of the instance instance_name cannot be stopped.

Explanation: The database might still be in use.

User response: To stop the database manager, run the db2stop command.
**DBI1383I • DBI1389I**

**DBI1383I** You must update the DB2 registry for the current instance manually using the `db2iset` command, including the full path of the `db2iset` command. For example: `/opt/ibm/db2/<release>/instance/db2iset -d instance-name`.

**User response:**

**DBI1384E** The instance instance-name cannot be created.

**Explanation:** DB2 Text Search configuration can only be performed on server instances.

**User response:** Configure the DB2 Text Search feature on a server instance.

**DBI1385W** Partitioned instances are not supported with the DB2 Text Search feature.

**Explanation:** The DB2 Text Search feature cannot be configured for this instance.

**User response:** Configure a single-partition instance to use the DB2 Text Search feature.

**DBI1386N** The account user-name is locked.

**Explanation:** The user's account is locked by the operating system.

**User response:** Contact the system administrator to unlock this user's account.

**DBI1387I** An invalid argument was entered for the `db2isetup` command.

**Explanation:** The syntax for the `db2isetup` command is:

```
db2isetup [-h|-?]
[-l <language_code>]
[-t <response_file>]
[-t <trace_file>]
[-l <log_file>]
```

Valid arguments for this command are:

- `--language-code`
  Specifies two letter code for the preferred language in which to run the install. If unspecified, this parameter will default to the locale of the current user. For a list of language identifiers, see the DB2 Information Center.

- `--response_file`
  Specifies the full path and file name of the response file to use.

- `--tracefile`
  Specifies the full path and name of trace file specified by `tracefile`.

- `-l logfile`
  Writes to the log to the file name specified. For root installations, the path and filename defaults to `/tmp/db2setup.log`. For non-root installations, the default log file is `/tmp/db2setup_userID.log`, where `userID` represents the user ID that owns the non-root installation.

- `-h|-?`
  Displays the usage information.

**User response:** Enter the command again using valid parameters.

**DBI1388I** An invalid argument was entered for the `db2nrupgrade` command.

**Explanation:** The syntax for the `db2nrupgrade` command is:

```
db2nrupgrade [-d]
[-a auth_type]
[-b backup_dir]
[-j "TEXT_SEARCH"
  | "TEXT_SEARCH,portnumber"]
[-h|-?]
```

For details about the parameters of the `db2nrupgrade` command, refer to the DB2 documentation for Linux, UNIX, and Windows.

**User response:** Enter the command again using valid parameters.

**DBI1389I** Usage:

```
db2ckupgrade ( <database_name> | -e )
-l <logfile>
[-u <userid> -p <password>]
```

**Explanation:**

- `database_name`
  Specifies the name of a database to be scanned.

- `-e`
  Specifies that all local cataloged databases are to be scanned.

- `-l logfile`
  Mandatory parameter. Specifies a log file to keep a list of errors and warnings generated for the scanned database.

- `-u userid`
Specifies the user ID of the instance owner.

-p password

Specifies the password of the instance owner.

-h | ?

Displays the usage information.

User response: Reenter the command with the proper syntax.

DBI1390E The current instance cannot be upgraded.

Explanation: An attempt was made to upgrade the instance. This instance cannot be upgraded because either:
- The DB2 version running the db2nrupgrade command is not a supported version to upgrade the current instance.
- The instance is still active

User response: See the DB2 Information Center for supported versions. Also ensure that there are no DB2 processes running at the instance. Fix the error, and to upgrade the instance to the new DB2 Copy version, rerun the db2nrupgrade command. For example, db2nrupgrade -b backupDir

DBI1391E directory-name is not a valid path.

Explanation: The directory cannot be accessed.

User response: Enter a valid path and rerun the command.

DBI1392W The deprecated-command-name command is deprecated. The deprecated command is replaced by new command new-command-name.

Explanation: The deprecated command will be removed from a future release.

User response: Replace the deprecated command with the new command in any scripts or applications.

DBI1393W The -j "TEXT_SEARCH" option is supported only on server instances ese, wse and standalone.

Explanation: The current instance is of type client or DB2 pureScale. The command completed, but the -j "TEXT_SEARCH" option was ignored.

User response: To use DB2 Text Search specify a server instance.

DBI1394E The db2cluster_prepare command failed because the db2cluster_prepare utility cannot write to the following trace file path: trace-file-path.

Explanation: You can create a DB2 managed General Parallel File System (GPFS) for a DB2 pureScale environment using the db2cluster_prepare utility.

You can cause the db2cluster_prepare utility to generate a trace file by specifying an absolute path for the trace file using the -t parameter. The db2cluster_prepare utility will create the trace file in the specified location. You can use this trace file to investigate any errors that occur while the GPFS cluster is being created.

This message is returned when the db2cluster_prepare command is called with a trace file location specified with the -t parameter and the db2cluster_prepare utility cannot access the specified trace path.

The db2cluster_prepare utility runs with the same authority as the user who runs the db2cluster_prepare command. This means that the user who runs the db2cluster_prepare command must have access to the path specified with the parameter.

A GPFS file system was not created.

User response: Run the db2cluster_prepare command again, specifying a trace file path that you can access.

DBI1395E The db2cluster_prepare command failed because the db2cluster_prepare utility cannot write to the following log file path: log-file-path.

Explanation: You can create a DB2 managed General Parallel File System (GPFS) for a DB2 pureScale environment using the db2cluster_prepare utility.

The db2cluster_prepare utility generates a log file that you can use to investigate any errors that occur while the GPFS cluster is being created. You can set the location for the log file by specifying an absolute path for the log file using the -log_file_path parameter. The db2cluster_prepare utility will create the log file in the specified location.

This message is returned when the db2cluster_prepare command is called with a log file location specified with the -log_file_path parameter and the db2cluster_prepare utility cannot access the specified log path.

The db2cluster_prepare utility runs with the same authority as the user who runs the db2cluster_prepare command. This means that the user who runs the db2cluster_prepare command must have access to the path specified with the -log_file_path parameter.

A GPFS file system was not created.

User response: Run the db2cluster_prepare command again, specifying a log file path that you can access.
DBI1396E  The db2cluster_prepare command failed because the utility was unable to create necessary temporary files in the following path: path.

Explanation: You can create a DB2 managed General Parallel File System (GPFS) for a DB2 pureScale environment using the db2cluster_prepare utility.

The db2cluster_prepare utility generates some temporary files for internal use. This message is returned when the db2cluster_prepare command is unable to create these internal, temporary files.

The db2cluster_prepare utility runs with the same authority as the user who runs the db2cluster_prepare command. This means that to run the db2cluster_prepare command, you must have access to the named path.

A GPFS file system was not created.

User response:
1. Ensure you have permission to access the named path.
2. Ensure that there is enough disk space available to create the temporary files.
3. Run the db2cluster_prepare command again.

DBI1397W  The db2set command failed to set the database manager configuration parameter DB2_ATS_ENABLE value to YES.

Explanation: The Administrative Task Scheduler (ATS) could not be enabled. Enabling ATS is a prerequisite for using DB2 Text Search.

User response: To use DB2 Text Search, you must enable the Administrative Task Scheduler.

DBI1398E  The db2cluster_prepare command failed because the db2cluster_prepare utility was unable to access the following directory: /tmp.

Explanation: You can create a IBM General Parallel File System (GPFS) for a DB2 pureScale environment using the db2cluster_prepare utility.

The db2cluster_prepare utility generates a log file that you can use to investigate any errors that occur while the GPFS cluster is being created. You can set the location for the log file by specifying an absolute path with the -log_file_path parameter. If you do not use the -log_file_path parameter, the db2cluster_prepare utility will attempt to create a log file named db2prepare_cluster.log in the default directory location /tmp.

This message is returned when the db2cluster_prepare command is called without a log file location being specified with the -log_file_path parameter the db2cluster_prepare utility cannot access the directory named /tmp.

The db2cluster_prepare utility runs with the same authority as the user who runs the db2cluster_prepare command. This means that you must be able to access the directory named /tmp to be able to call the db2cluster_prepare command without specifying the -log_file_path parameter.

A GPFS file system was not created.

User response: Respond to this error in one of the following ways:

- Run the db2cluster_prepare command again, specifying a log file path with the -log_file_path parameter that you can access.
- Allow the db2cluster_prepare utility to create the log file in the default location by performing the following two steps:
  1. Configure the /tmp directory permissions so that you have access to that directory.
  2. Run the db2cluster_prepare command again without using the -log_file_path parameter.

DBI1399I  You can create a DB2 managed General Parallel File System (GPFS) for a DB2 pureScale environment using the db2cluster_prepare utility.

Explanation: In a DB2 pureScale environment, all data and logs must be on a General Parallel File System. Existing data and logs that are not on GPFS must be moved to GPFS before upgrading to a DB2 pureScale environment. You can set up a DB2 managed GPFS cluster and file system, so that the data and logs can be moved to it in preparation for the upgrade to a DB2 pureScale environment using the db2cluster_prepare utility.

User response: No response is necessary. This message is for your information only.

DBI1400N  The syntax of the db2licm command is incorrect.

Explanation: The db2licm tool performs basic license functions. It adds, removes, lists, and modifies licenses installed on the local system. Execute db2licm tool with -l parameter to find out the product identifier for your product:

```
db2licm [-a filename]
       [-e product-identifier HARD | SOFT]
       [-p product-identifier REGISTERED | CONCURRENT | OFF]
       [-r product-identifier]
       [-u product-identifier num-users]
       [-c product-identifier num-connectors]
       [-l]
       [-v]
       [-?]
```
The command options are:

- **-a**
  Adds a license for a product. Specify a file name containing valid license information. This can be obtained from your licensed product CD or contact your IBM representative or authorized dealer.

- **-e**
  Updates the enforcement policy on the system. Valid values are: HARD and SOFT. HARD specifies that unlicensed requests will not be allowed. SOFT specifies that unlicensed requests will be logged but not restricted.

- **-p**
  Updates the license policy type to use on the system. The keywords CONCURRENT, REGISTERED, or CONCURRENT REGISTERED can be specified. Specify OFF to turn off all policies.

- **-r**
  Removes the license for a product. After the license is removed, the product functions in "Try & Buy" mode. To get the password for a specific product, invoke the command with the -l option.

- **-u**
  Updates the number of user entitlements that have been purchased. Specify the password of the product for which the entitlements were purchased and the number of users.

- **-c**
  Updates the number of connector entitlements that have been purchased. Specify the password of the product for which the entitlements were purchased and the number of connectors.

- **-l**
  Lists all the products with available license information, including the product identifier.

- **-v**
  Displays version information.

- **-?**
  Displays help information. When this option is specified, all other options are ignored, and only the help information is displayed.

User response: Enter the command again using the valid parameters.
Lists all the products with available license information, including the product identifier.

-v
Displays version information.

-?
Displays help information. When this option is specified, all other options are ignored, and only the help information is displayed.

User response:

DBI1402I License added successfully.

DBI1403I License removed successfully.

DBI1404N Product identifier not found.
Explanation: The given identifier is either invalid, or a license for this product was not found in the nodelock file.
User response: Issue this command with -l option to check that the identifier entered is the correct product identifier for the product that you want to perform this action on. If you are using nodelock passwords, check that the license key for this product is installed in the nodelock file.

DBI1405I License policy type updated successfully.

DBI1406N Invalid license policy type.
Explanation: The license policy type that was entered was not valid for the product specified.
User response: Please enter a valid license policy. Options are:
  - CONCURRENT
  - REGISTERED
  - CONCURRENT REGISTERED
  - OFF

DBI1407N Invalid license certificate file.
Explanation: License certificate file is not in the correct format.
User response: Enter the name of a file with the correct license certificate format.

DBI1408N The file file-name could not be opened.
Explanation: The file is not found or access to the file is denied.
User response: Enter the name of a file that exists and can be opened and try the command again.

DBI1409N Invalid enforcement policy type.
Explanation: The enforcement policy type specified is not valid for this product.
User response: Please enter a valid enforcement policy type that is supported by the specified product.

DBI1410I Concurrent entitlements updated successfully.

DBI1411I Enforcement policy type updated successfully.

A hard stop enforcement policy stops the use of the product by unlicensed users when licensing infractions have been exceeded.

A soft stop enforcement policy logs license infractions, but allows unlicensed users to still use the product.

The db2ls command is preparing and checking the installed DB2 copies on the system.

Checking active DB2 instances on AIX system workload partitions (WPARs) workload-partition-list for the related DB2 copy.

The license could not be added to the nodelock file automatically.
Explanation: The return code is "<return-code>".
User response: Please ensure the license certificate is readable. You may also enter the license into the nodelock file manually. Please see the license file for instructions.

The license specified could not be removed from the nodelock file.
Explanation: The return code is "<return-code>".
User response: Ensure that the license for this product exists in the nodelock file.

The number of licensed processors on this system has been updated successfully.
DBI1419N  There was an error updating the number of licensed processors.
Explanation:  The return code is "<return-code>".

DBI1420N  This product does not support this type of license policy.
Explanation:  The license policy specified does not apply to this product or is not supported.
User response:  Please enter a valid license policy.

DBI1421N  This product specified is not installed on this system.
Explanation:  You cannot configure a license policy for a product until the product is installed.
User response:  Install the product before running this command or specify the correct product identifier. To list the products installed on the system issue db2licm -l command.

DBI1422N  The number of concurrent entitlements was not updated.
Explanation:  The return code is "<return-code>".
User response:  Please ensure the concurrent policy is enabled for this product.

DBI1423N  This option requires the creation of an instance.
Explanation:  Features that are required to perform this action are only accessible once an instance has been created.
User response:  Please create an instance and issue this command again.

DBI1424N  An unexpected error occurred while accessing processor information.
Explanation:  The return code is "<return-code>".
User response:  None.

DBI1425E  The license for DB2 OLAP Server cannot be updated. The DB2 OLAP processes are currently active.
Explanation:  DB2 cannot update the license for DB2 OLAP Server while DB2 OLAP Server is running.
User response:  To update your OLAP license, please stop all OLAP processes and reinstall this DB2 license.

DBI1426I  This product is now licensed for use as specified in the License Acceptance and License Information documents pertaining to the licensed copy of this product. USE OF THE PRODUCT CONSTITUTES ACCEPTANCE OF THE TERMS OF THE IBM LICENSE ACCEPTANCE AND LICENSE INFORMATION DOCUMENTS, LOCATED IN THE FOLLOWING DIRECTORY: dir-name

DBI1427I  This product is now licensed for use as specified in the License Acceptance and License Information documents pertaining to the evaluation ("Try and Buy") copy of this product. USE OF THE PRODUCT CONSTITUTES ACCEPTANCE OF THE TERMS OF THE IBM LICENSE ACCEPTANCE AND LICENSE INFORMATION DOCUMENTS, LOCATED IN THE FOLLOWING DIRECTORY: dir-name

DBI1428N  There was an error updating the number of licensed processors.
Explanation:  The number of licensed processors entered exceeds the number of maximum licensed processors allowed for this product.
User response:  Please enter number of licensed processors that does not exceed the defined maximum. If the number of processors on your system exceeds the maximum number of processors allowed for this product, please contact your IBM representative or authorized dealer.

DBI1429N  This product does not support this combination of license policies.
User response:  Please enter a valid combination of license policies. For example, you can specify "CONCURRENT REGISTERED" as a valid combination.

DBI1430N  The license could not be added to the nodelock file because the license date is greater than operating system date.
User response:  Please check your certificate file to ensure that the license start date precedes the current date (the date set on the operating system).

DBI1431N  This user does not have sufficient authority to perform the specified action.
Explanation:  This program can be run only under the root user ID or a user ID with SYSADM authority.
User response:  Login with a user ID that has
permission to run this command.

**DBI1432N** The license could not be added to the nodelock file.

**Explanation:** This product has used the maximum number of evaluation licenses. The maximum number of evaluation licenses is `lic-number`.

**User response:** Run this command again with a permanent license key.

**DBI1433N** The number of license entitlements was not updated.

**Explanation:** The specified number of license entitlements is not in the valid range.

**User response:** Run this command again using a valid number of license entitlements.

**DBI1434N** DB2 has added the license entry to the nodelock file, however, this license entry is not active.

**Explanation:** DB2 failed to activate this license entry, therefore DB2 will run with the previous license configuration until this license is activated.

**User response:** Try the command again and if it continues to fail, edit the nodelock file manually or contact IBM support.

If you edit the nodelock file manually, move the new license entry to the top of the license entries list.

The location of the nodelock file is platform specific:

- **AIX** `/var/ifor/nodelock`
- **Windows** `$DB2PATH/license/nodelock`
- **All other operating systems:** `/var/lum/nodelock`

Refer to the DB2 Information Center for more information on licensing.

**DBI1435E** Error Opening DB2 First Steps. Cannot find supported Web browser.

**Explanation:** DB2 First Steps requires a supported Web browser.

**User response:** Install one of the following Web browsers:
- Internet Explorer 6.0 and up
- Mozilla 1.7 and up
- Firefox 2.0 and up

When using Windows operating systems, set the default browser to your choice from the previous list.

**DBI1437E** The `db2cluster_prepare` command failed because no value was specified for the `-t` parameter.

**Explanation:** You can create a DB2 managed General Parallel File System (GPFS) for a DB2 pureScale environment using the `db2cluster_prepare` utility.

You can cause the `db2cluster_prepare` utility to generate a trace file by specifying an absolute path for the trace file using the `-t` parameter. The `db2cluster_prepare` utility will create the trace file in the specified location. You can use this trace file to investigate any errors that occur while the GPFS cluster is being created.

This message is returned when the `db2cluster_prepare` command is called without a value specified for the `-t` parameter.

A GPFS file system was not created.

**User response:** Run the `db2cluster_prepare` command again, specifying a value for the `-t` parameter.

**DBI1438E** The `db2cluster_prepare` command failed because no value was specified for the parameter named `-l`.

**Explanation:** You can create a DB2 managed General Parallel File System (GPFS) for a DB2 pureScale environment using the `db2cluster_prepare` utility.

The `db2cluster_prepare` utility generates a log file that you can use to investigate any errors that might occur while the GPFS cluster is being created. You can set the location for the log file by specifying an absolute path with the parameter named `-l`. If you use the parameter named `-l`, the `db2cluster_prepare` utility will create the log file in the specified location.

This message is returned when the `db2cluster_prepare` command is called without a value specified for the parameter named `-l`.

A GPFS file system was not created.

**User response:** Run the `db2cluster_prepare` command again, specifying a value for the parameter named `-l`.

**DBI1439W** The option `-immediate` was used when running `db2set`, but the variable specified cannot be updated immediately.

**Explanation:** The registry was successfully updated with the new value, however, it is never possible for the change to the variable specified by the `db2set -immediate` call to take effect immediately. The `-immediate` option has been ignored.

**User response:** Do not supply the `-immediate` option when updating this specific variable.
A db2set -immediate call was made, the offline registry was successfully updated, but db2set could not attach to the instance.

**Explanation:** Although the offline registry was updated successfully, the value cannot be applied immediately by one or more members because db2set could not attach to the instance.

**User response:** Try attaching to the instance explicitly and re-run the command and verify that all members of the instance are healthy.

A db2set -immediate call was made but the dynamic update failed on one or more hosts or members.

**Explanation:** The offline registry was successfully updated, and the registry update has been made immediately on all of the hosts or members db2set could access. On the hosts or members that db2set could not access, however, the setting for the variable specified could not be applied immediately.

**User response:** Make sure that all members can be accessed from the host where the command was issued and re-run the command or try attaching to each host or member explicitly and re-run the command. Alternatively, all members will see the changes the next time they restart.

Some variables governed by the aggregate variable aggregate_name were updated dynamically, although some variables it governs do not support an immediate change.

**Explanation:** The aggregate registry variable was successfully updated immediately. Some of the variables governed by the aggregate variable were changed dynamically, but other variables governed by the aggregate variable require the instance to be restarted to take effect.

**User response:** Restart the instance for all of the variables governed by this aggregate registry variable to take effect.

One or more registry variables meant to take effect for the whole instance have different values on different hosts.

**Explanation:** On the Windows operating system, registry variables are stored within the operating system registry of each host. Currently at least one registry variable has been set to a number of different values across hosts. It is highly recommended to keep each registry variable set consistently on all hosts.

**User response:** Make sure that all DB2 registry variable settings are consistent on all hosts and re-run the command.

The db2ls command cannot be found in the expected directory directory-name.

**Explanation:** The DB2 installation path passed to the db2ls command with the -b option must be the location of a copy with DB2 Version 9 or later installed.

**User response:** Specify a DB2 installation path of a copy with DB2 Version 9 or later installed.

The -b install-path option is mandatory when the -q option is specified. For a list of DB2 installation locations to query, run the db2ls command without the -b and -q options.

The %? command is running.

A Java Runtime Environment is needed to run the program program-name.

**Explanation:** The execution of the command requires a Java Runtime Environment (JRE). If IBM Software Development Kit (SDK) for Java is installed with the related DB2 copy, the JRE is found in <DB2DIR>/java/jdk64/jre/bin for 64-bit Linux systems, or <DB2DIR>/java/jdk32/jre/bin for 32-bit Linux systems, where <DB2DIR> represents the installation path of the related DB2 copy.

If a JRE is not found in either path, the program looks for a JRE in either:
- the current user's $JAVA_HOME/jre/bin, or,
- the default PATH environment.

In this case, the JRE must meet the current DB2 version requirements. For details, see “Java software support for DB2 products” in the DB2 Information Center.

**User response:** Install the IBM Software Development Kit (SDK) for Java and rerun the program.

An error occurred during the creation or removal of a DB2 entry on the main menu. For details, check the log file log-file-name.

**Explanation:** On Linux operating systems, main menu entries for DB2 tools can be created and removed manually or automatically. Main menu entries for DB2 tools, such as db2is, can be created manually by running the db2addicons command, or created automatically when specific DB2 commands are run. These main menu entries can be removed manually by running the db2rmicons command, or removed automatically when specific DB2 commands are run. Errors occurred during either the creation or removal of
these main menu entries. For a list of the specific DB2
commands, see "Main menu entries for DB2 tools" in
the DB2 Information Center.

User response: Check the error log file for details and
rerun the program.

---

**DBI1449I Usage: db2addicons [-h]**

**Explanation:** The db2addicons command creates main
menu entries for DB2 tools, such as db2fs, for the
current user. The main menu entries for DB2 tools are
created by manually running the db2addicons
command, or are created automatically when specific
DB2 commands are run. For a list of the specific DB2
commands, see "Main menu entries for DB2 tools" in
the DB2 Information Center.

The only argument for this command is:

- `h`
  displays the usage information.

User response: Enter the db2addicons command again
without any argument.

---

**DBI1450I Usage: db2rmicons [-h]**

**Explanation:** The db2rmicons command removes main
menu entries for DB2 tools, such as db2fs, for the
current user. The main menu entries for DB2 tools are
removed by manually running the db2rmicons
command, or are removed automatically when specific
DB2 commands are run. For a list of the specific DB2
commands, see "Main menu entries for DB2 tools" in
the DB2 Information Center.

The only argument for this command is:

- `h`
  displays the usage information.

User response: Enter the db2rmicons command again
without any argument.

---

**DBI1451E A DB2 instance environment is not set
to run the program program-name.**

**Explanation:** On Linux operating systems, the DB2
instance environment needs to be set for the current
user before the command can be run. DB2 instance
environment can be setup with:

- `<Instance_HOME>/sqllib/db2profile` (for Bourne
shell and Korn shell users), or
- `<Instance_HOME>/sqllib/db2chsrc` (for C shell
users)

where `<Instance_HOME>` is the instance owner's home
directory.

User response: Set up the DB2 instance environment
and rerun the program.

---

**DBI1452E You do not have the authority to install
the network version of the DB2
Information Center. Installing the
product named product-name requires
root authority. You can find the
workstation version of the DB2
Information Center in the subdirectory
called "workstation" of the folder
located at folder-location, at IBM Passport
Advantage, or at the following URL:
www.ibm.com/support/
docview.wss?rs=71&uid=swg27009474.
You do not need to have root authority
to install the workstation version of the
DB2 Information Center.

---

**DBI1453E Invalid component name component-name**

**Explanation:** Specified component name is either
incorrect or misspelled. If the component name is
correct, this component name might not be valid on
this operating system or platform.

User response: Check to see if the component name is
a valid DB2 component for the current operating
system or platform. Refer to the DB2 Information
Center or to the sample uninstallation response
DB2DIR/db2un.rsp for a list of valid component keys.

---

**DBI1454E instance-name is a DB2 pureScale
instance. Validation on this type of
instance is not supported in the current
DB2 release.**

**Explanation:** The db2val command does not support
validation on a DB2 pureScale instance.

User response: No action required.

---

**DBI1455W The information on instance
instance_name will not be added to the
generated response file.**

**Explanation:** The specified instance is a DB2 pureScale
instance. When the db2rspgn command is run against a
DB2 pureScale instance the information on the specified
instance is not added to the generated response file and
the instance profile is not created.

User response: No action required

---

**DBI1456W The command-name command failed
because it was executed on a member
that is not the coordinating member of
the instance instance-name.**

**Explanation:** The command is only supported on the
coordinating member of the instance.

User response: Run the command on the coordinating
member of the instance.
DBI1457E The DB2 product or feature could not be
uninstalled. To uninstall, the following
list of instances must be dropped:
instance-list.

Explanation: The product or feature must not be
associated with any instances when it is uninstalled.
The db2list command is used to list installed instances.

User response: Drop the offending instances using the
db2idrop command and re-run the db2_deinstall
command.

DBI1458E The db2iupdt or db2iupgrade
commands are not supported on a non
instance-owning member.

Explanation: The db2iupdt command can be used to
update an instance to a higher level within a release.
The db2iupgrade command upgrades an instance to a
DB2 copy of the current release from a DB2 copy of a
previous release. On the Windows platform the DPF
instance update and upgrade are only supported on the
instance-owning member.

User response: Run the db2iupdt or db2iupgrade
command on the instance-owning member.

DBI1459E The db2_deinstall command failed
because some DB2 database files are in
use.

Explanation: You can uninstall DB2 database
products, features, or languages using the db2_deinstall
command.

Before you can uninstall any part of a non-root
installed DB2 database manager instance, all operating
system processes and resources for that instance must
be release. This message is returned when an attempt is
made to uninstall a non-root installed instance while
some DB2 database-related system resources have not
been freed. For example, this message can be returned
for the following reasons:
• DB2 database-related operating system processes are
  still running
• DB2 database-related libraries are still loaded in
  memory

User response:
1. Stop the DB2 database manager using the db2stop
   force command
2. Run the db2_deinstall command again

DBI1460E Command parameter combination is
invalid.

Explanation: When using the db2setup command, if
the -c parameter is specified to validate the contents of
a response file, the -r parameter indicating the response
file must also be specified.

User response: Rerun the db2setup command
specifying both the -c and -r parameters.

DBI1461E The distributed fix pack installation
failed because the -H parameter was
specified with the installFixPack
command, but the DB2 installer
detected no DB2 pureScale components
in the base copy of the DB2 database
product.

Explanation: You can update the installed DB2
database products to the same level by using the
installFixPack command.

In DB2 pureScale environments only, you can update
multiple hosts in a DB2 cluster by specifying the -H
parameter with the installFixPack command.

This message is returned when the -H parameter is
specified with the installFixPack command in an
environment that is not a DB2 pureScale environment.

User response: Rerun the installFixPack command
without the -H parameter.

DBI1462I The db2setup command is validating
the response file provided. This can
take several minutes.

Explanation: Validation process in progress.

User response: No action required.

DBI1463E The response file validation failed. Log
file: path_to_logfile

Explanation: Invalid entries were detected in the
response file. For more details, refer to the log file.

User response: Correct the response file errors and
rerun the command.

DBI1464E Conflicting installFixPack command
parameters specified. Parameters:
conflicting-parameter-list.

Explanation: There are specific parameters related to
specific actions in the installFixPack command. Some
parameters cannot be specified for some actions.

This message is returned when two parameters of the
installFixPack command cannot be specified together
because the syntax does not support such usage.

User response: Review the syntax of the installFixPack
command and re-issue the command with the correct
parameters.
DBI1465E  An error occurred in the host list file.
   Host file: host-file-name.

Explanation: An error was detected in the specified host list file. The error can occur for any of the following reasons: the file does not exist, the file is not readable, the file is empty or contains an invalid character, the path name is not specified, or the HOST keyword is not valid.

User response: Check the contents of the specified host list file, and rerun the command.


Explanation: The specified reason code indicates one of the following errors occurred:

1. The IBM Reliable Scalable Cluster Technology (RSCT) peer domain is not online
2. The IBM General Parallel File System (GPFS) cluster is not online
3. At least one db2 cluster services alert is indicated

User response: Depending on the specified reason code, take the appropriate action:

1. Bring the RSCT peer domain online by entering the following command: db2cluster -cm -start -domain domain_name
2. Start the GPFS cluster by entering the following command: db2cluster -cfs -start -host host_name
3. Clear all alerts by running the following command: db2cluster -list -alert

DBI1470E  The instance validation failed on host host_name. Reason code = reason_code.

Explanation: The specified reason code indicates one of the following errors occurred:

1. Validation on the specified host did not finish before time-out.
2. The SSH communication for the instance owner between the specified host and other hosts failed.
3. Instance shared directory cannot be accessed from the given host or is not shared between the given host and the local host.
4. Some files in the instance directory are damaged. The symbolic links of the files are not pointing to the instance shared directory.
5. The specified host is offline in the RSCT peer domain.

User response: Depending on the specified reason code, take the appropriate action:

1. Bring the RSCT peer domain online by entering the following command: db2cluster -cm -start -domain domain_name
2. Start the GPFS cluster by entering the following command: db2cluster -cfs -start -host host_name
3. Clear all alerts by running the following command: db2cluster -list -alert
The specified host is stopped in the GPFS cluster.

Installation file validation failed for the DB2 copy on the specified host.

**User response:** Depending on the specified reason code, take the appropriate action:

1. Rerun the `db2val` command on the specified remote host.

2. Fix the SSH communication for these hosts. This requires you setup a passwordless SSH access for the instance owner. For details, see the DB2 Information Center.

3. The instance shared directory must be accessible from the specified host. The directory path must be accessible from all the hosts, and must have read/write permission.

4. To fix the symbolic links, run `db2updt <instance_name>` as root.

5. Bring the host online by running the following command: `db2cluster -cm -start -host <host-name>`

6. Bring the host online by running the following command: `db2cluster -cfs -start -host <host-name>`

7. Check the log file for more details.

---

**DBI1471I**  
`db2setup` validated the response file successfully. Log file: *path_to_logfile*.

**Explanation:** The validation process completed successfully.

**User response:** Check the log file for details.

---

**DBI1472W**  
The `db2val -d` parameter is deprecated. The deprecated parameter is replaced by the `-t` `trace_file` parameter.

**Explanation:** The deprecated parameter will be removed from a future release.

**User response:** Replace the deprecated parameter with the new parameter in any scripts or applications.

---

**DBI1473W**  
Parameter *deprecated-parm-name* is deprecated. The deprecated parameter is replaced by new parameter *new-parm-name*. Command: *command-name*.

**Explanation:** The deprecated parameter might be removed from a future release.

**User response:** Replace the deprecated parameter with the new parameter in any scripts or applications. For command syntax and parameter details, see the DB2 Information Center.

---

**DBI1474E**  
The instance shared mount point path is invalid. Command: *command-name*.

**Explanation:** In the specified command, the path specified for the instance shared mount point must be a new path and must not be a sub-directory of an existing GPFS file system.

**User response:** Rerun the command specifying a new path for the instance shared mount point.

---

**DBI1475E**  
The installation failed because only the root user is permitted to install DB2 pureScale.

**Explanation:** To install the DB2 pureScale Feature you must be logged in as the root user. Installation is restricted to the root user because components required by DB2 pureScale affect shared resources on the system.

**User response:** Review the prerequisites for DB2 pureScale before attempting another installation.

---

**DBI1476E**  
The `db2_install` command failed because the following mutually exclusive options were specified: 

- `-f PURESCALE`
- `-f NOSTAMP`.

**Explanation:** The IBM Tivoli Storage Automation for MultiPlatform (SA MP) is a required component for the DB2 pureScale Feature. Running the `db2_install` command with the `-f PURESCALE` option and the option to exclude Tivoli SA MP from the installation, `-f NOSTAMP`, is not permitted.

**User response:** Respond to this message in one of the following ways:

- To include DB2 pureScale in the installation, rerun the `db2_install` command without specifying the `-f NOSTAMP` option.
- If you do not want to install DB2 pureScale, rerun the `db2_install` command without specifying the `-f PURESCALE` option.
The db2cluster_prepare command failed because of a syntax error. Reason code: reason-number.

Explanation: The syntax entered was invalid. See the corresponding reason code for an explanation of the cause of the error.
1. The -cfs_takeover and -instance_shared_dev option are mutually exclusive, when specifying one option for db2cluster_prepare the other cannot be used.
2. The db2cluster_prepare command failed because one or more parameters were specified multiple times.
3. The db2cluster_prepare command failed because no value was specified for the -instance_shared_dev parameter.
4. The db2cluster_prepare command failed because no value was specified for the -t parameter.
5. The db2cluster_prepare command failed because no value was specified for the parameter named -l.
6. The db2cluster_prepare command failed because no value was specified for the -instance_shared_dev parameter.

User response: Rerun the db2cluster_prepare command with the correct syntax. For the correct syntax, see the command reference or run the command with the "-?" option, by typing "db2cluster_prepare -?".

The GPFS binary update failed.

Installation detected one or more GPFS efixs that were not originally installed by the DB2 product. Installation cannot proceed until these efixs are manually removed. efixs: efix_list

Explanation: The GPFS efixs detected by the DB2 installer were not installed by the DB2 product. The DB2 installer can only remove efixs installed as part of a DB2 product installation. The specified efixs must be removed manually.

User response: Manually remove the efixs, and rerun the DB2 command.

The syntax of the DB2NDROP command is incorrect.

Explanation: The DB2NDROP utility drops a node from a partitioned system.

DB2NDROP /n:node
        [/i:instance]

The command options are:
• /i Specify the instance if different from the default/current instance

User response: Issue the DB2NDROP command with one of the valid command options.
Chapter 85. DBI1500 - DBI1999

DBI1500I  Usage:
   db2inst [-f response-file]

Explanation: An incorrect argument was entered. The command accepts an optional flag -f which is followed by the path of the “DB2 Installer” response file.

User response: Re-enter the command with a valid argument.

DBI1501E  An internal error was encountered.

Explanation: An error was detected while performing an internal operation.

User response: Verify that the file system on which the file resides is not damaged. If the problem persists, contact IBM Support with the following information:
   1. Message number
   2. Internal error message description
   3. Problem description

DBI1502E  An error was encountered when opening or reading from file, file-name.

Explanation: An error was encountered when opening or reading from a file. One of the following errors occurred:
   • An I/O error occurred opening or reading from the file.
   • An expected value was not found in the file.
   • The order of the data in the file is incorrect.

User response: If the file was modified by the user, verify that the data in the file is valid. If the file was not modified by the user, contact IBM Support with the following information:
   1. Message number
   2. Message description
   3. Problem description

DBI1503E  An error was encountered when opening or writing to file, file-name.

Explanation: An error was encountered when writing data to a file. One of the following errors occurred:
   • Incorrect access permissions on a given directory.
   • There is not enough space on your file system.

User response: Check to see if the permissions on the file’s parent directory have been set correctly. If the problem persists, contact IBM Support with the following information:
   1. Message number

DBI1504E  An error occurred opening message files.

Explanation: An attempt to open and read from “DB2 Installer” message catalog files failed. Before DB2 Installer starts up, it looks for two resource files -- db2inst.rcx and db2inst.cat in the following locations:
   • DB2 product directory, or
   • on the distribution media, or
   • environment variables DB2IRCX and DB2ICAT.

User response: Set the environment variables DB2IRCX and DB2ICAT to the absolute location of db2inst.rcx and db2inst.cat respectively.

DBI1505E  An attempt to allocate memory failed.

Explanation: An error was detected when attempting to allocate memory.

User response: Terminate other applications running on the system that may be using large amounts of memory. If the problem persists, contact IBM Support with the following information:
   1. Message number
   2. Message description
   3. Problem description

DBI1506E  Installation failed because IBM Tivoli System Automation for Multiplatforms (SA MP) could not be upgraded.

Explanation: The Tivoli SA MP product must be at the version level included in the DB2 installation image. To avoid any potential problems with the existing peer domain, the DB2 installer does not attempt to upgrade Tivoli SA MP when a peer domain is in use. There is a Reliable Scalable Cluster Technology (RSCT) peer domain on the system preventing the installer from upgrading the Tivoli SA MP installation.

User response: Manually upgrade the Tivoli SA MP product before attempting to install the DB2 pureScale Feature.

DBI1507E  An instance of the DB2 Installer is already started.

Explanation: An error was detected when attempting to start up the DB2 Installer. Another instance of the DB2 Installer is still running.
User response: Terminate all instances of the DB2 Installer and restart the install process. If the problem persists, remove the lock file /tmp/.db2inst.lck and restart the DB2 Installer.

IBM Tivoli System Automation for Multiplatforms (SA MP) was updated as part of the DB2 product installation or upgrade process.

Explanation: Only one SA MP copy can be installed on a system, and the DB2 installation required that the SA MP product installed be upgraded to the version of SA MP integrated with the DB2 installation media.

User response: If other software has dependencies on SA MP verify that the software is compatible with the updated SA MP version.

DBI1508W The DB2 installer failed to update to the required version of IBM Tivoli System Automation for Multiplatforms (SA MP).

Explanation: Failure to upgrade Tivoli SA MP can be caused if the Reliable Scalable Cluster Technology (RSCT) peer domain is offline or in maintenance mode.

User response: Manually upgrade the Tivoli SA MP product after the DB2 installation or update completes. See the Tivoli SA MP Base Component Installation and Configuration Guide for more information.

DBI1509W The DB2 installer failed to install a DB2 copy because non-root users are restricted to a single DB2 copy and a copy preexists for the user.

Explanation: The DB2 instance processes are run with the user ID for non-root DB2 installations. All DB2 instances are required to run with a unique ID, this restricts a non-root user to a single copy.

User response: Upgrade the installed non-root DB2 copy with by upgrading with a response file, specifying the keyword "UPGRADE_PRIOR_VERSION". Alternatively, you can run "db2_install -m" to upgrade the installed copy.

Note that you must have root authority to use the DB2 installer to install SA MP.

SA MP was not installed.

User response: See the mentioned log file for details.

To install SA MP manually, use the installSAM command.

For more information about the installSAM command, see the SA MP Base Component documentation.

DBI1512E The installation failed because the operating system does not support the installation of DB2 pureScale.

Explanation: The DB2 product is supported on more operating systems than the DB2 pureScale Feature. The detected operating system does not support DB2 pureScale.

User response: Review the prerequisites for DB2 pureScale before attempting another installation.

DBI1513E Uninstalling the IBM Tivoli System Automation for Multiplatforms (SA MP) failed. See the log file log-file-name for details. (TSAMP_RC=TSAMP_RC).

Explanation: db2_deinstall uses the uninstallSAM utility to uninstall SA MP. The uninstallSAM utility returned errors. The uninstallSAM log file contains more complete information.

TSAMP_RC is the return code from the uninstallSAM utility.

Note that you must have root authority to use db2_deinstall to uninstall SA MP.

SA MP was not uninstalled.

User response: See the mentioned log file for details.

To uninstall SA MP manually, use the uninstallSAM command.

For more information about the uninstallSAM utility, see http://publib.boulder.ibm.com/tividd/td/IBMTivoliSystemAutomationforMultiplatforms2.2.html.

DBI1514I The DB2 High Availability (HA) scripts for the IBM Tivoli System Automation for Multiplatforms (SA MP) were successfully installed.

Explanation: You need DB2 HA scripts to use SA MP with the DB2 HA feature.

These DB2 HA scripts are located at /usr/sbin/rsct/sapolicies/db2. The DB2 installer detects whether these DB2 HA scripts need to be installed or updated.

User response: No action is required.
An attempt to allocate resource for a subprocess failed.

Explanation: An error was detected when attempting to startup a subprocess.

User response: Terminate other applications running on the system that may be using large amounts of resources. If the problem persists, contact IBM Support with the following information:
1. Message number
2. Problem description

An attempt to terminate a subprocess failed.

Explanation: An error was detected when attempting to terminate a subprocess.

User response: Terminate other applications running on the system that may be using large amounts of resources. If the problem persists, contact IBM Support with the following information:
1. Message number
2. Problem description

An attempt to execute a command in a subprocess failed.

Explanation: An error was detected when attempting to execute a command in a subprocess. One of the following problems occurred:
• The command does not exist.
• Incomplete command search path.
• Incorrect access permissions on the command.
• System resource problem.

User response: Correct the problem and try again. If the problem persists, contact IBM Support with the following information:
1. Message number
2. Problem description

The DB2 installer returned an error while installing or updating the DB2 High Availability (HA) scripts for the IBM Tivoli System Automation for Multiplatforms (SA MP).

Explanation: You need DB2 HA scripts to use SA MP with the DB2 HA feature.

These DB2 HA scripts are located at /usr/sbin/rsct/sapolicies/db2. The DB2 installer detects whether these DB2 HA scripts need to be installed or updated.

The DB2 installer tried to install or update the DB2 HA scripts, but was not successful.

User response: Use the command db2cptsa to manually install or update these scripts.

The DB2 product cannot extend the instance. The set up of DB2 cluster services failed on the remote host named host-name.

Explanation: The DB2 product is not able to extend the DB2 pureScale instance to the host. The set up of DB2 cluster services failed on the remote host.

User response: Examine the log file db2updt.log in /tmp/db2updt/ on the host, correct the conditions, and rerun the db2updt command.

Minimum terminal display size is 24 x 80.

Explanation: Your current terminal or window size is not large enough. This program requires a minimum terminal display size of 24 lines by 80 columns.

User response: Check your terminal or window size and try again.

An attempt to read in the terminal capability information failed.

Explanation: An error was detected when attempting to initialize your terminal display. There are two conditions where this type of error would occur:
• The function cannot find the environment variable TERM or it is unable to find the correct terminfo database entry for the terminal.
• There is not enough memory space available when initializing your terminal display.

User response: Set your environment variable TERM to a correct terminal type. If the problem persists, try to terminate other applications running on the system that may be using large amounts of memory. If the problem still occurs, contact IBM Support with the following information:
1. Message number
2. Problem description

An attempt to restore the terminal capability information failed.

Explanation: An error was detected when attempting to restore your terminal display to the original state.

User response: Set your environment variable TERM to a correct terminal type. If the problem persists, try to terminate other applications running on the system that may be using large amounts of memory. If the problem still occurs, contact IBM Support with the following information:
1. Message number
2. Problem description
DBI1523E  The DB2 product cannot change the preferred primary cluster caching facility to the host host-name.
Explanation: The host name is not currently a cluster caching facility. The host is a DB2 member.
User response: Rerun this command with a cluster caching facility name.

DBI1525E  To completely drop a DB2 pureScale instance, the -g option must be used with the db2idrop command
Explanation: The db2idrop command was run without using the -g option for a DB2 pureScale instance. To completely drop a DB2 pureScale instance, the -g option is required.
User response: If the DB2 pureScale instance needs to be completely dropped on all the hosts, rerun the db2idrop command with the -g option. Otherwise, run the db2ipd command with the -drop option. For command syntax details, see the DB2 Information Center.

DBI1527E  The installation failed because the response file used specified the installation of the IBM General Parallel File System (GPFS) but did not specify DB2 pureScale.
Explanation: The GPFS license is provided for use with the DB2 pureScale Feature only. The DB2 pureScale must be selected in the installation response file to install GPFS.
User response: Edit the installation response file to select both components for installation.

DBI1528E  The installation failed because the product installation path contains a version of a DB2 product that is not compatible with the version of the product on the installation image.
Installation path: DB2DIR.
Explanation: To add a product to a DB2 copy, the installed product and the product being installed must be at the same version and fix pack level.
User response: You can update the installed copy to the version on the installation image, before installing the new product to the same path. Alternatively, you can install a new DB2 copy.

DBI1529W  Manual installation of the added languages, products, or both is required on the other hosts in the instance.
Added languages: added-languages.
Added products: added-products.
Explanation: When the installation-initiating host installs the DB2 pureScale Feature, the installation image copied to members does not include language packs or products that were not selected. Excluding these files from the installation image results in a smaller disk footprint and less network traffic during installation. When adding a language feature or product after the initial DB2 pureScale instance is created, they must be manually installed on each of the other members of the instance because they do not exist in the installation image on the other members. After adding additional language features or products, new members added to the DB2 pureScale instance will include all languages and products that are installed on the installation-initiating host.

DBI1530E  Cannot unpack image file.
Explanation: An error has occurred while unpacking the tar image from the distribution media. One of the following situations has occurred:
• The given path name is a non-existing directory.
• The file system does not have enough space.
• The access permission on the given path is incorrect.
• The tar command was not found in your current search path.
User response: Restart the install process and retry with a correct path name.

DBI1531W  The db2val command is not supported for instance type instance-type.
Explanation: This instance type cannot be validated using the db2val command.
User response: No action required.

DBI1532W  IBM Tivoli System Automation for Multiplatforms (SA MP) will be updated as part of the DB2 product installation or upgrade process.
Explanation: Only one Tivoli SA MP copy can be installed on a system. The DB2 installation requires that the installed Tivoli SA MP product be upgraded to the version of SA MP integrated with the DB2 installation media.
User response: If other software has dependencies on Tivoli SA MP verify that the software is compatible with the updated Tivoli SA MP version.
The db2_deinstall command failed because the db2_deinstall utility was unable to uninstall the GPFS product. The db2_deinstall utility was unable to uninstall the GPFS product because the host machine on which the db2_deinstall command was run is in a GPFS cluster.

Explanation: You can uninstall DB2 database products, features, or languages on Linux and UNIX operating systems by using the db2_deinstall command. If IBM General Parallel File System (GPFS) software was installed as part of a DB2 pureScale Feature installation, the db2_deinstall utility will uninstall the GPFS product by default.

In order for the db2_deinstall utility to uninstall the GPFS product, the GPFS cluster and file system that the DB2 product or feature being uninstalled is using must be manually removed before the db2_deinstall command is run. You can cause the db2_deinstall utility to skip uninstalling the GPFS product by specifying the "-s GPFS" option.

This message is returned when the db2_deinstall command is run on a host machine that is part of a GPFS cluster and the "-s GPFS" option was not specified with the db2_deinstall command.

User response: Respond to this error in one of the following ways:

- If there are no DB2 database manager instances using a GPFS cluster on the current host machine, perform the following steps:
  1. Remove the GPFS cluster and file system manually.
  2. Complete the process of uninstalling DB2 database products and Features as well as uninstalling the GPFS product by calling the db2_deinstall command again.
- If other instances are using a GPFS cluster on the current host machine, uninstall the DB2 product or Feature without uninstalling the GPFS product by calling the db2_deinstall command again, specifying the "-s GPFS" option.

The db2_deinstall command failed because of IBM Reliable Scalable Cluster Technology (RSCT) peer domain membership.

Explanation: The db2_deinstall command cannot continue because the current host is part of a RSCT peer domain.

User response: If IBM Tivoli System Automation for Multiplatforms (SA MP) is required on this host, remove any DB2 pureScale instances that are on this host using either the "db2iupdt -drop" or "db2idrop -g" command. If the peer domain is needed, by-pass the Tivoli SA MP binary removal by running "db2_deinstall -a -s TSAMP". If there are no resources using the peer domain on this host, before re-issuing the command, manually remove Tivoli SA MP. For details, see the DB Information Center.


Explanation: The pre-installation validation detected that it cannot upgrade Tivoli SA MP. If the Reliable Scalable Cluster Technology (RSCT) peer domain is offline or in maintenance mode it can cause the validation to fail.

User response: Manually upgrade the Tivoli SA MP product after the DB2 installation or update completes. See the Tivoli SA MP Base Component Installation and Configuration Guide for more information.

The DB2 installer failed because of an unknown error, which occurred during the installation of IBM Tivoli System Automation for Multiplatforms (SA MP).

Explanation: Tivoli SA MP is a required component of the DB2 pureScale environment. The Tivoli SA MP product was not installed or updated due to the unexpected error.

User response: Manually install the Tivoli SA MP product, then install the DB2 pureScale product. See the Tivoli SA MP Base Component Installation and Configuration Guide for more information.

The offline fix pack update operation failed because one or more members or CFs in the following DB2 database manager instance are still active: instance-name. Host name: host-name.

Explanation: A DB2 database manager instance cannot be updated while any member or cluster caching facility (CF) is active.

User response:
1. Identify active members or CFs in the instance by using the following command:
   db2instance -11st
2. Stop active members by using the following command:
   db2stop member <member-id>
3. Stop active CFs by using the following command:
   db2stop CF <CF-id>
4. Retry the fix pack update operation.
The command failed because the specified DB2 instance is not a DB2 pureScale instance but a parameter that was specified with the command is valid for only DB2 pureScale instances.

**Command name:** `command-name`

**Specified parameter that is valid for only DB2 pureScale environments:** `parameter`

**Explanation:** For many DB2 database manager commands, some parameters are valid in only certain conditions.

This message is returned when a command is called with a parameter specified that is valid for only DB2 pureScale instances.

**User response:** Respond to this message in one of the following ways:
- Re-issue the command without specifying parameters that are valid for only DB2 pureScale instances.
- Update the instance to a DB2 pureScale instance and then call the command again.

The online fix pack update operation failed because the code level to which the instance is being updated is lower than the current effective code level.

**Explanation:** The code level of a given DB2 product is comprised of product details such as: version, release, modification level, interim fix pack level, and special build tokens. The current effective code level (CECL) is the code level at which an instance is said to be operating.

The `curr_eff_code_level` configuration parameter shows the CECL for an instance.

Online fix pack updates of an instance towards a code level that is lower than the CECL of the instance is not supported.

**User response:** Update the instance by performing an offline update.

An invalid distribution media path is specified.

**Explanation:** An error was detected when attempting to locate the installable images on the distribution media. One of the following errors occurred:
- The file system associated with the given path is not properly mounted.
- An incorrect access permission has been assigned to the given path.

**User response:** Check the path and try the command again. Note that all file and directory names in Unix are case sensitive.
cannot be performed until the offline fix pack update is committed or canceled.

**User response:** To respond to this message, perform the following steps:
1. Wait until the offline fix pack update that is in progress is committed or canceled.
2. Initiate the online fix pack update again.

**Explanation:** You can update the version of DB2 database to a higher code level within a release without having to bring your database offline by using an online fix pack update.

This message is returned when an attempt is made to perform an offline fix pack update while an online update is in progress. An offline fix pack update cannot be performed until the online fix pack update is committed or canceled.

**User response:** To respond to this message, perform the following steps:
1. Wait until the online fix pack update that is in progress is committed or canceled.
2. Retry the online fix pack update.

**Explanation:** The code level of a given DB2 product is comprised of product details such as: version, release, modification level, and fix pack level. During a fix pack update operation, it is possible for some DB2 members or CFs in a DB2 cluster to be at one code level while other members or CFs in the same DB2 cluster are at a second code level.

Performing a fix pack update of a DB2 instance is only supported when the members and CFs in a DB2 cluster are at a maximum of two distinct code levels.

This message is returned when an attempt is made to perform a fix pack update to a new code level that is different than the code level of the fix pack update performed on several DB2 members and CFs in the same DB2 cluster.

**User response:** To perform the fix pack update to the specified code level, perform the following steps:
1. Update all members and CFs in the DB2 cluster to the same code level as the fix pack update that is in progress.
2. Retry the fix pack update to the specified code level.
**The online fix pack update operation failed because it involves a special build that does not support online fix pack updates to or from the current code level without a service password.**

**Explanation:** You can update the version of DB2 database to a higher code level within a release without having to bring your database offline by using an online fix pack update. This message is returned in two cases:

- An attempt is made to perform an online fix pack update to a special build, but performing an online fix pack update from the current code level to that special build is not supported unless a service password is specified.
- An attempt is made to perform an online fix pack update from a special build to another code level, but performing an online fix pack update from the special build to new code level is not supported unless a service password is specified.

**User response:** Respond to this message in one of the following ways:

- Update the instance by performing an offline fix pack update.
- Work with the assistance of IBM support to set the service password.

---

**The fix pack update operation failed because of an error with an internal DB2 database manager configuration file. Reason code: reason-code.**

**Explanation:** You can update the version of a DB2 database manager instance to a higher code level by performing an offline fix pack update. You can update the version of a DB2 pureScale instance to a higher level without having to bring your database offline by performing an online fix pack update.

This message is returned when a problem is encountered with an internal configuration file that is used for fix pack updates.

The reason code is useful for assisting only IBM support personnel troubleshoot the problem:

1. An invalid record was found.
2. A duplicate record was found.
3. A required record does not exist.
4. The configuration file contents invalid, or the fix pack update operation encountered an error reading the configuration file.

---

**The install utility determined that the new architecture level is the same as the current effective code level (CECL). The install fix pack operation cannot be committed because the levels are the same.**

**Explanation:** You can update the version of DB2 database to a higher code level by performing offline fix pack updates or online fix pack updates to keep databases online.

A fix pack update has several steps. The final step is to commit the fix pack update. Before committing the fix pack update, you can optionally verify that the fix pack update operation is ready for commit by using the -check_commit parameter with the db2iupdt command or the installFixPack command.

This message is returned when the pre-commit verification or commit of the fix pack update operation determines that the new level of code is the same as the CECL.

**User response:** No response is required.

---

**The install utility determined that there are DB2 members or cluster caching facilities (CFs) in the current instance that are at two or more different code levels. The install fix pack operation cannot be committed if the members and CFs are not all at the same level.**

**Explanation:** You can update the version of DB2 database to a higher code level by performing offline fix pack updates or online fix pack updates to keep databases online.

A fix pack update has several steps. The final step is to commit the fix pack update. Before committing the fix pack update, you can optionally verify that the fix pack update operation is ready for commit by using the -check_commit parameter with the db2iupdt command or the installFixPack command.

This message is returned when the pre-commit verification or commit of the fix pack update operation determines that the members and CFs are not all at the same level.

**User response:** No response is required.
or the installFixPack command.

This message is returned when the pre-commit verification or commit of the online fix pack update operation determines that not all DB2 members or CFs in the DB2 pureScale instance are at the same level of code.

**User response:** Update all DB2 members and CFs in the DB2 pureScale instance to the same code level. Then perform the pre-commit verification or commit of the online fix pack update again.

<table>
<thead>
<tr>
<th>DBI1559E</th>
<th>The pre-commit verification or commit of the offline fix pack update operation failed because the instance must be offline.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong> An offline fix pack update has several steps. The final step is to commit the fix pack update. Before committing the fix pack update, you can optionally verify that the fix pack update operation is ready for commit. This message is returned when the pre-commit verification or commit of the offline fix pack update operation determines that the DB2 database manager instance is online. The instance must be offline.</td>
<td></td>
</tr>
</tbody>
</table>
| **User response:** Respond to this message by performing the following steps:  
  • Stop the instance by issuing the `db2stop` command.  
  • Commit the offline fix pack update. |

<table>
<thead>
<tr>
<th>DBI1560E</th>
<th>The online fix pack update operation failed because an invalid service password was specified.</th>
</tr>
</thead>
</table>
| **Explanation:** You can update the version of DB2 database to a higher code level within a release without having to bring your database offline by using an online fix pack update.  
  
  A service password might be required to perform a online fix pack update with a special build or a fix pack with test fix that has been provided by IBM support.  
  
  This message is returned when an invalid service password was specified to perform an online fix pack update that requires a service password. |
| **User response:** Work with the assistance of IBM support to obtain the required service password and then perform the online fix pack update again. |

<table>
<thead>
<tr>
<th>DBI1562E</th>
<th>The commit of the fix pack update operation failed because the database manager configuration cannot be updated.</th>
</tr>
</thead>
</table>
| **Explanation:** You can update the version of DB2 database to a higher code level within a release by performing an offline fix pack update or an online fix pack update to keep the database online.  
  
  This message is returned when an online fix pack update fails because the database manager configuration cannot be updated. |
| **User response:** Perform the fix pack update operation again. |

<table>
<thead>
<tr>
<th>DBI1563W</th>
<th>The commit of the online fix pack update was successful. However, the database manager configuration for one or more DB2 members or cluster caching facilities (CFs) was not updated.</th>
</tr>
</thead>
</table>
| **Explanation:** You can update the version of DB2 pureScale instance to a higher code level within a release without having to bring your database offline by using an online fix pack update.  
  
  An online fix pack update has several steps. The final step is to commit the online fix pack update. In this final step, the database manager configuration for each DB2 member and CFs in the DB2 cluster is updated.  
  
  This message is returned when the online fix pack update operation encounters errors while updating the database manager configuration for one or more DB2 members or CFs. |
| **User response:** Respond to this message by performing the following actions:  
  1. Determine which members or CFs need to be restarted by issuing the following command:  
     `db2pd -rstatus`  
  2. Restart the affected members and CFs by issuing the `db2stop` command followed by the `db2start` command. |

<table>
<thead>
<tr>
<th>DBI1564E</th>
<th>The fix pack update operation failed at task name <code>task-name</code> with the following error message: <code>message-id</code>. Log file names: <code>log-file-name-list</code>.</th>
</tr>
</thead>
</table>
| **Explanation:** You can update the version of DB2 database to a higher code level by performing offline fix pack updates or online fix pack updates to keep databases online.  
  
  A fix pack update performs several tasks. This message is returned when an error is encountered in one of these tasks. |
| **User response:** Respond to this message by performing the following troubleshooting steps:  
  • Review the diagnostic information in the given log file or log files.  
  • Review the explanation and user response for the given message identifier.  
  • Resolve the cause of the underlying error.  
  • Complete the fix pack update operation. |
DBI1565E  The command failed because a parameter was specified that requires a service password, but the service password is not set.

Explanation: You can update the version of DB2 database to a higher code level within a release without having to bring your database offline by using an online fix pack update.

This message is returned when an attempt is made to perform an online fix pack update that requires a service password, but the service password environment variable has not been configured.

User response: Work with the assistance of IBM support, to set the service password environment variable.

DBI1567E  The installFixPack command failed because an empty path was specified for the -p parameter.

Explanation: If you are performing a fix pack update on a DB2 pureScale instance (dsf type instance), you must specify a path to install the fix pack that is different than the existing installation. This path must be the same on all DB2 members and cluster catching facilities (CFs).

This message is returned when an empty path is specified with the -p parameter because this parameter is mandatory for DB2 pureScale instances.

User response: Re-issue the installFixPack command specifying a valid new installation path with the -p parameter.

DBI1568E  The installFixPack command failed because the path that was specified with the -p parameter is the same as the current DB2 database product installation path, but the -f parameter was not specified.

Explanation: If you are performing a fix pack update on a DB2 pureScale instance (dsf type instance), you must specify a path to install the fix pack that is different than the existing installation. This path must be the same on all DB2 members and cluster catching facilities (CFs).

To replace the existing installation, you must also specify the -f parameter. However, if you specify the same path as the existing installation, you cannot cancel the fix pack update.

This message is returned when the path that is specified with the -p parameter is the same path as the current DB2 product install path, but the -f parameter was not specified with the installFixPack command.

User response: Respond to this message in one of the following ways:

- Re-issue the installFixPack specifying an install path with the -p parameter that is not the same as the current DB2 product install path.
- Re-issue the installFixPack command specifying the same install path with the -p parameter and specify the -f parameter.

DBI1569E  The instance creation or update operation failed because too many interconnect netnames were specified for a DB2 member or CF.

Explanation: You can create a new DB2 database manager instance by using the db2icrt command. You can update an existing instance by using the db2iupdt command. For both the db2icrt command and the db2iupdt command, you can specify a list of interconnect netnames for a DB2 member by using the -mnet parameter, and you can specify a list of netnames for a cluster caching facility (CF) by using the -cfnet parameter. The maximum number of netnames that can be specified for a DB2 member or CF is four.

This message is returned when an attempt is made to specify more than four netnames for a DB2 member or CF while using the db2icrt command or the db2iupdt command.

User response: Call the command again, specifying no more than four netnames for any DB2 members or CFs.

DBI1570I  Usage:
   db2olset InstName

Explanation: An incorrect argument was entered for the db2olset command. Valid arguments for this command are:

- -h|-?  display the usage information
- -d  turn debug mode on.

InstName  is the name of the instance you wish to set up to use with the OLAP Starter Kit

User response: Enter the command again as follows:
   db2olset InstName

DBI1571E  The command failed because the instance is a DB2 pureScale instance but a parameter was specified with the command that is not valid in DB2 pureScale environments. Command name: command-name, Specified parameter: parameter.

Explanation: For many DB2 database manager utility commands, some parameter are valid in only certain conditions. This message is returned when a command is called in a DB2 pureScale environment with a parameter that is not valid for DB2 pureScale environments.
User response: Call the command again without specifying parameters that are not valid for DB2 pureScale environments.

**DBI1572E** The fix pack update operation failed because the DB2 member is involved in a restart light process.

Explanation: When a failed DB2 member cannot be restarted on its original host, or home host, DB2 cluster services restarts that member on one of the other available members in a DB2 pureScale instance. This process is known as restart light.

This message is returned when an attempt is made to perform a fix pack update on a DB2 member that is involved in a restart light process. Fix pack updates are not supported on DB2 members that are involved in a restart light process.

User response: Monitor the DB2 member and retry the fix pack update when the restart light process is resolved.

**DBI1573W** The DB2 installer did not update the RSCT software on this member or CF, because the currently installed version of RSCT is supported with the new DB2 fix pack level.

Explanation: DB2 cluster services includes three major components, including a cluster manager, Tivoli SA MP, which includes RSCT.

When you update your DB2 database product to a new DB2 fix pack level on a DB2 member or cluster caching facility (CF), the DB2 install utility will automatically update the Reliable Scalable Cluster Technology (RSCT) software on that member or CF, if needed. If the version of RSCT that is already installed on that member or CF is supported by the new fix pack level, the DB2 install utility will not update the RSCT software on that member or CF.

This message is returned when a fix pack is being updated on a DB2 member or CF, and the version of RSCT that is currently installed on the member or CF is supported with the new fix pack level.

User response: No action is required.

**DBI1574W** The fix pack update operation will update the version of Reliable Scalable Cluster Technology (RSCT) installed to a higher version on the local host.

Explanation: In a DB2 pureScale instance, the DB2 cluster services provide essential infrastructure for the instance to be highly available and to provide automatic failover and restart as soon as the instance has been created. RSCT is one of the three major components included by DB2 cluster services.

This message is returned when an attempt is made to perform a fix pack update on DB2 member or CF that has an earlier version of RSCT installed. The fix pack update operation will update to a higher version of RSCT.

User response: If the fix pack update is cancelled, manual installation of the earlier version of RSCT is required.

**DBI1575E** The fix pack update operation failed because the instance on the DB2 member or cluster caching facility (CF) that is being updated cannot be stopped.

Explanation: You can update the version of DB2 pureScale instance to a higher code level by using offline fix pack updates or online fix pack updates to keep databases online. During the fix pack update, the instance is stopped to perform the update.

This message is returned when an attempt to stop the instance on the member or CF that is being updated fails.

User response: Stop the instance on the host by issuing the following command:

```
db2stop INSTANCE ON host-name FORCE
```

Once the instance is stopped, perform one of the following actions:

- Perform again the fix pack update.
- Cancel the fix pack update on the instance as follows:

```
db2start INSTANCE host-name
db2start member member-id or
db2start CF CF-identifier
```

**DBI1576E** The fix pack update operation failed because the DB2 member that is being updated cannot be stopped.

Explanation: You can update the version of DB2 pureScale instance to a higher code level by using offline fix pack updates or online fix pack updates to keep databases online. During the fix pack update, the member is stopped to perform the update.

This message is returned when the attempt to stop the DB2 member that is being updated fails.

User response: Stop the DB2 member by issuing the following command:

```
db2stop member member-id
```

Once the member is stopped, perform one of the following actions:

- Perform again the fix pack update.
- Cancel the fix pack update on the member by restarting the member as follows:

```
db2start member member-id
```
DBI1577E The fix pack update operation failed because the cluster caching facility (CF) that is being updated cannot be stopped.

Explanation: You can update the version of DB2 pureScale instance to a higher code level by using offline fix pack updates or online fix pack updates to keep databases online. During the fix pack update, the CF is stopped to perform the update.

This message is returned when the attempt to stop the CF that is being updated fails.

User response: Stop CF by issuing the following command:

```
db2stop CF CF-identifier
```

Once the CF is stopped, perform one of the following actions:

- Perform again the fix pack update.
- Cancel the fix pack update on the CF by restarting the CF as follows:

```
  db2start CF CF-identifier
```

---

DBI1578E The fix pack update operation failed because the cluster manager cannot be put in maintenance mode to be updated.

Explanation: To ensure that DB2 members or cluster caching facilities (CFs) are not restarted on the host when making updates to the cluster manager, you can put the cluster manager into maintenance mode.

This message is returned when an attempt is made to perform a fix pack update but the cluster manager cannot be put in maintenance mode to be updated.

User response: To respond to this message, manually exit the cluster manager from maintenance mode. Then, to continue with the fix pack update, perform it again.

---

DBI1579E The fix pack update operation failed because the IBM General Parallel File System (GPFS) cannot be put in maintenance mode to perform the update.

Explanation: To ensure that DB2 members or cluster caching facilities (CFs) are not restarted on the host when making updates to GPFS, you can put GPFS into maintenance mode.

This message is returned when an attempt is made to perform a fix pack update but the update operation cannot put GPFS in maintenance mode to update it.

User response: To respond to this message, manually put GPFS in maintenance mode. Then, to continue with the fix pack update, perform it again.

---

DBI1580E The fix pack update operation failed because the cluster manager cannot exit maintenance mode.

Explanation: After making updates to the cluster manager, you can exit maintenance mode to remove the host from maintenance mode and put the domain online.

This message is returned when an attempt is made to perform a fix pack update but the cluster manager cannot exit maintenance mode.

User response: To respond to this message, manually exit the cluster manager from maintenance mode. Then, to continue with the fix pack update, perform it again.

---

DBI1581E The online fix pack update operation failed because the instance being updated is not a DB2 pureScale instance.

Explanation: You can update the version of DB2 pureScale instance to a higher code level within a release without having to bring your database offline by performing an online fix pack update.

This message is returned when an online fix pack update is performed on an instance with a type different than a DB2 pureScale instance.

User response: Perform an offline fix pack update on the specified instance.

---

DBI1582E The installFixPack command failed because the list of instances specified includes DB2 pureScale instances and other types that are not pureScale instances.

Explanation: You can specify a list of instances to update with the -I parameter of the installFixPack command. All the instances in the list have to be either pureScale instances or other types that are not pureScale instances. A list that includes pureScale instances and other types that are not pureScale instances is not supported.
This message is returned when -I parameter of the installFixPack command was specified with a list of instances that includes pureScale instances and other types that are not pureScale instances.

**User response:** To respond to this message perform one of the following actions or both:
- Issue the installFixPack command with one pureScale instance name.
- Issue the installFixPack command with a list of other type of instances that are not pureScale instances.

**DBI1584E** The installFixPack command failed because the list of instances specified have different installation paths.

**Explanation:** You can specify a list of instances to update with the -I parameter of the installFixPack command. All the instances in the list must have the same installation path. A list of instances that have different installation paths is not supported.

This message is returned when -I parameter of the installFixPack command was specified with a list of instances that have different installation paths.

**User response:** To respond to this message, issue the installFixPack command with a list instances that have the same installation path.

**DBI1585E** The commit of the fix pack update failed because the commit of the cluster manager update fails.

**Explanation:** You can update the version of DB2 pureScale instance to a higher code level by using offline fix pack updates or online fix pack updates to keep databases online.

A fix pack update has several steps. The commit is the final step that completes the fix pack update. The cluster manager update is committed during the commit.

This message is returned when the commit of the fix pack update cannot commit the cluster manager update.

**User response:** To respond to this message, manually commit the cluster manager update. Then, perform the commit of the fix pack update again.

**DBI1586E** The commit of the fix pack update failed because the commit of the IBM General Parallel File System (GPFS) update fails.

**Explanation:** You can update the version of DB2 pureScale instance to a higher code level by using offline fix pack updates or online fix pack updates to keep databases online.

An fix pack update has several steps. The commit is the final step that completes the fix pack update. The GPFS update is committed during the commit.

This message is returned when the commit of the fix pack update cannot commit the GPFS update.

**User response:** To respond to this message, manually commit the GPFS update. Then, perform the commit of the fix pack update again.

**DBI1587E** The commit of the fix pack update failed because the commit of the current effective code level (CECL) or current effective architectural level (CEAL) update fails.

**Explanation:** You can update the version of DB2 pureScale instance to a higher code level by using offline fix pack updates or online fix pack updates to keep databases online.

A fix pack update has several steps. The commit is the final step that completes the fix pack update. The CECL and CEAL update is committed during the commit.

This message is returned when the commit of the fix pack update cannot commit the CECL and CEAL update.

**User response:** To respond to this message, manually commit the CECL and CEAL update. Then, perform the commit of the fix pack update again.

**DBI1588E** The online fix pack update operation failed because the instance on the DB2 member or cluster caching facility (CF) that is being updated cannot be restarted.

**Explanation:** You can update the version of DB2 pureScale instance to a higher code level by using an online fix pack update to keep databases online. During the online fix pack update, the instance is restarted to perform the update.

This message is returned when an attempt to restart the instance on the DB2 member or CF that is being updated fails.

**User response:** Start the instance on the DB2 member or CF by issuing the following command:
```sql
db2start INSTANCE ON host-name
```

**DBI1589E** The online fix pack update operation failed because the instance on the DB2 member or cluster caching facility (CF) that is being updated cannot be restarted.

**Explanation:** You can update the version of DB2 pureScale instance to a higher code level by using an online fix pack update to keep databases online. During the online fix pack update, the DB2 member or CF is restarted to perform the update.
This message is returned when an attempt to restart the DB2 member or CF that is being updated fails.

**User response:** Manually restart the DB2 member or CF.
- To restart a DB2 member, issue the following command:
  `db2start member member-id`
- To restart a CF, issue the following command:
  `db2start CF CF-id`

---

**DBI1590E** The fix pack update operation failed because the DB2 database software cannot be updated. Details about the error were written to the log file. Log file name: `log-file-name`.

**Explanation:** You can update the version of DB2 pureScale instance to a higher code level by using offline fix pack updates or online fix pack updates to keep databases online. During the fix pack update, the DB2 database software components is updated.

This message is returned when an attempt to update the DB2 software fails.

**User response:** To respond to this message, perform one of the following actions:
- Complete the fix pack update by performing the following steps:
  - Check error message in the log file and perform the corrective action.
  - Re-issue the fix pack update command.
- Cancel the fix pack update by restarting the instance.

---

**DBI1591E** The fix pack update operation failed because either the SA MP software or the GPFS software cannot be updated. Details about the error were written to the log file. Log file name: `log-file-name`.

**Explanation:** You can update the version of DB2 pureScale instance to a higher code level by using offline fix pack updates or online fix pack updates to keep databases online. During the fix pack update, the following software components are updated:
- IBM Tivoli System Automation for Multiplatforms (SA MP)
- IBM General Parallel File System (GPFS)

This message is returned when an attempt to update the software for SA MP or GPFS fails.

**User response:** To respond to this message, perform one of the following actions:
- Complete the fix pack update by performing the following steps:
  - Check error message in the log file and perform the corrective action.
- Start the instance on the local host by issuing the following command:
  `db2start INSTANCE ON host-name`
- Start the DB2 member or CF by issuing one of the following commands:
  `db2start member member-id`
  or
  `db2start CF CF-id`

To complete the offline fix pack update, perform the following actions:
- Check the log file and perform a corrective action.
- Perform again the fix pack update operation.

To cancel the fix pack update, issue the `installFixPack` command with the `-f level` parameter from the install directory of the previous fix pack release.

---

**DBI1593E** The fix pack update operation failed to update the instance configuration. Details about the error were written to the log file. Log file name: `log-file-name`.

**Explanation:** You can update the version of DB2 pureScale instance to a higher code level by using offline fix pack updates or online fix pack updates to keep databases online. During the fix pack update, the existing instance configuration is updated.

This message is returned when attempt update the instance configuration fails.

**User response:** To complete the online fix pack update, perform the following actions:
- Check the log file and perform a corrective action.
- Start the instance on the local host by issuing the following command:
  `db2start INSTANCE ON host-name`
- Start the DB2 member or CF by issuing one of the following commands:
  `db2start member member-id`
  or
  `db2start CF CF-id`

To complete the offline fix pack update, perform the following actions:
- Check the log file and perform a corrective action.
- Perform again the fix pack update operation.

To cancel the fix pack update, issue the `installFixPack` command with `-f level` parameter from the install directory of the previous fix pack release.

---

**DBI1593E** The DB2 command failed because the changes to the instance configuration cannot be committed.

**Explanation:** During an instance creation or upgrade changes to the instance configuration are committed to complete the command.

This message is returned when committing the instance configuration changes during an instance creation or upgrade fails.

**User response:** Manually commit the instance configuration changes by issuing the following command:
`db2iupdt -commit_new_level instance_name`
DBI1594E  The setup_db2locssh command failed because an invalid parameter was specified.

Explanation: You can install and configure a DB2 pureScale instance without having to enable passwordless SSH by running the setup_db2locssh command before performing the install or configuration operation.

This message is returned when the setup_db2locssh command is invoked with invalid or missing parameters.

User response: Enter the command again specifying only valid parameters.

DBI1595E  The setup_db2locssh command failed because of an internal, runtime error.
Reason code: reason-code.

Explanation: You can install and configure a DB2 pureScale instance without having to enable passwordless SSH by running the setup_db2locssh command before performing the install or configuration operation.

This message is returned when the setup_db2locssh command fails with an unexpected error.

The reason code in the runtime token is an error number that can assist IBM support personnel to troubleshoot the cause of the error. The runtime token might sometimes be empty.

User response: No response is required.

DBI1596W  The user ID that was specified with the -i parameter was ignored because a non-root user ID already exists on the system. The command proceeded using the existing non-root user ID.

Explanation: In DB2 pureScale environments, the non-root user ID (sometimes referred to as "db2sshid") is used to establish a secure shell (SSH) network protocol between host machines.

You perform install, upgrade, or configuration tasks by using commands such as db2icrt or db2iupdt. When you call one of these commands you can configure a new non-root user ID by specifying the proposed user ID with the -i parameter.

This message is returned when a command such as db2icrt or db2iupdt is called and the -i parameter is specified with a proposed user ID, but the utility detects that a non-root user ID already exists on the system. Because there may exist only one non-root user ID on a given system at a time, the utility uses the existing non-root user ID instead of configuring a new one.

User response: No response is required.

DBI1597I  Communication between host machines was performed using passwordless SSH because the ability to communicate without using passwordless SSH has not been configured.

Explanation: You can install and configure a DB2 pureScale instance without having to enable passwordless SSH by running the setup_db2locssh command before performing the install or configuration operation. Running the setup_db2locssh command enables DB2 database manager processes to communicate between host machines without using passwordless SSH.

Utilities such as db2icrt and db2iupdt will communicate without using passwordless SSH, if the capability to do so has been configured. This message is printed when a utility must use passwordless SSH because the capability to communicate without using passwordless SSH has not been configured.

User response: No response is required.

DBI1631E  An error was encountered while creating a sample database.

Explanation: One of the following situations has occurred:
• There is not enough disk space on the file system.
• The DB2 product has not been installed properly, or some of the component files are missing.

User response: If any of these three situations apply, then correct the problem and retry the command. If the problem persists, turn trace on and retry the steps to create a database through the CLP. Then, save the trace information to a file and contact IBM Support with the following information:
• Message number
• Problem description
• Trace file

DBI1632E  An error was encountered while configuring to auto-start instance.

Explanation: One of the following situations has occurred:
• The feature to "auto-start" the instance is already enabled.
• An error was encountered while adding an entry to "/etc/inittab" file. This could be a file permission problem.
• The db2uit tool is missing.

User response: If any of these three situations apply, then correct the problem and retry the command. If the problem persists, contact IBM Support with the following information:
• Message number
Problem description

DBI1633E An error was encountered while removing the configuration to auto-start instance.

Explanation: One of the following situations has occurred:
- The feature to "auto-start" the instance is not enabled.
- An error was encountered while removing an entry to "/etc/inittab" file. This could be a file permission problem.
- The db2uit tool is missing.

User response: If any of those three situations apply, then correct the problem and retry the command. If the problem persists, contact IBM Support with the following information:
- Message number
- Problem description

DBI1634W Unable to update /etc/rc.db2v08 to auto-mount dlfs file system.

Explanation: An attempt to update /etc/rc.db2v08 to enable the auto-mounting of the dlfs file system on system reboot has failed.

User response: Manually edit the file /etc/rc.db2v08, and add the following lines to it:

```sh
if [-x /etc/rc.dlfs ]; then
  /etc/rc.dlfs
fi
```

DBI1635E An error was encountered while adding to the Administration Server group list.

Explanation: An error was detected when attempting to add a DB2 instance to the Administration Server group list.

User response: If you are running this command on an NIS client, try to append the group name of the DB2 instance to the secondary group of the Administration Server on your NIS server.

DBI1637W By clicking OK, your previous settings for the instance will be lost.

User response: Click OK if you wish to proceed. Otherwise click Cancel.

DBI1639E Cannot set up a new instance.

Explanation: The given instance name does not belong to an existing instance.

User response:
- Create a new instance.
- If you are running the interactive installer, from the instance creation panel choose to create a new instance.
- If you are running the response file installer, provide additional information for the user.
- Enter the name of an existing instance.

DBI1640W The specified instance is not a server instance.

Explanation: Some of the DB2 components can only be configured for DB2 server instances.

User response:
- If the specified instance is a client instance and DB2 server product is installed, run db2iupdt to update the client instance to a server instance.
- If the specified instance is a Data Link Administration Server, exit the installer and set up the instance from the command line, if you wish to do so.

DBI1651E The specified UID is invalid.

Explanation: An invalid UID has been entered. One of the following situations has occurred:
- The given UID is already assigned to an existing user on the system.
- The given UID either is too long or consists of invalid characters.
- The given UID less than or equal to 100.

User response: Retry with a different user ID.

DBI1652E The specified user name is invalid.

Explanation: An invalid user name has been entered. One of the following situations has occurred:
- The given user name already exists on the system.
- The given user name already exists on the system but under a different group name.
- The given user name either is too long or consists of invalid characters.

User response: Retry with a different user name.

DBI1653E The specified group is invalid.

Explanation: An invalid group ID or group name has been entered. One of the following situations has occurred:
- The given group ID already exists but under a different group name on the system, or the given group name already exists but under a different group ID.
- The given group ID or group name either is too long or consists of invalid characters.
- The given group ID is less than or equal to 100.
User response: Retry with a different group ID or group name.

DBI1654E The specified directory is invalid.
Explanation: An invalid directory has been entered. One of the following situations has occurred:
• The given user already exists but has a different home directory specified on the system.
• The given directory is either too long or consists of invalid characters.
User response: Retry with the user's home directory specified on the system or a different directory.

DBI1655E The specified password is invalid.
Explanation: An invalid password has been entered. One of the following situations has occurred:
• The given password has a length of zero.
• The given password does not match with the verify password.
• The given password contains invalid characters.
User response: Retry with a different password.

DBI1657E Instance name already in use.
Explanation: An instance with the same name already exists on your system.
User response: Verify with the list of instances as reported by the “db2ilist” command. Retry with a different user name.

DBI1701E One or more of the TCP/IP parameters specified is invalid.
Explanation: One of the following situations has occurred:
• The length of service name exceeds 14 characters.
• The port number specified is out of range. This number must be between 1024 and 65535.
User response: Correct the problem and try again.

DBI1703E No valid service name or port number found.
Explanation: No valid service name or port number for this instance can be found in the TCP/IP services file. This information is either missing or is invalid.

If you installed “DB2 Extended Server Edition” product, a service name must be specified for the instance before using this command.
User response: Specify valid service name and port number for this instance and enter this command again.

DBI1704E TCP/IP is not running on your system.
Explanation: TCP/IP is not running on your system. TCP/IP services file will not be updated.

DBI1705E The port number specified port-number is being used by another application.
Explanation: The port number specified cannot be used because it is being used by another application that is currently running.
User response: Specify another port number that is not in use. The port number must be in the range 1024 to 65535.

DBI1709E An error was encountered when updating the TCP/IP services file.
Explanation: An attempt to add a service name and port number to the TCP/IP services file failed.
User response: If the user wishes to use the service name instead of the port number in the node directory entry, the node must be manually uncatalogued and then recatalogued using the service name. The services file must also be updated manually. If Network Information Services (NIS) is being used, the local services file may have been updated but the NIS server must be updated manually. In this case, the node was also catalogued using the port number.

DBI1711E One or more of the IPX/SPX parameters specified is invalid.
Explanation: One of the following situations has occurred:
• the file server, objectname, or ipx_socket parameter is null.
• the file server parameter is set to * but objectname is not *.
• the objectname or ipx_socket value specified is not unique.
• the ipx_socket value specified is not in the valid range.
User response: Correct the problem and try again.
DBI1715E  NetWare User ID or NetWare Password is invalid.

Explanation: The NetWare User ID and NetWare Password that you specify must already exist and is used to register the DB2 Object Name at a NetWare file server and must have supervisory or equivalent authority.

User response: Correct the problem and try again.

DBI1720E  The specified User ID or Group ID cannot be added since NIS is running.

Explanation: NIS is running on your system. A new User ID or Group ID cannot be created while you have NIS running on your system.

User response: Use a previously created User ID or Group ID and try again.

DBI1722E  The specified service cannot be added to the /etc/services file because NIS is running.

Explanation: NIS is running on your system. A new service cannot be added to the /etc/services file while you have NIS running on your system.

User response: Use a previously created service name and port number from the /etc/services file and try again.

DBI1725W  Cannot create Agent Daemon and Logger services for Data Warehouse Agent.

Explanation: TCP/IP is not running on the system. The install will proceed but you need to create Agent Daemon and Logger services manually.

User response: Activate TCP/IP on the system and run the installer.

DBI1740W  Security Risk.

Explanation: Using the default instance user ID here allows this instance to have full access permission to other instances on your system. It is highly recommended to use a different user ID for security reasons.

User response: To avoid the possibility of a security risk, use a different user ID.

DBI1741W  Protocol not detected.

Explanation: You have selected a protocol that is not detected. DB2 Installer cannot update all of the protocol's required settings. However, you can provide values for this protocol's settings.

User response: No actions required.

DBI1744W  The DB2 Data Links Manager Administrator is not created.

Explanation: You have not created the DB2 Data Links Manager Administrator. Without the DB2 Data Links Manager Administrator, you cannot administer the DB2 Data Links Manager.

User response: No actions required.

DBI1745W  The Administration Server is not created.

Explanation: You have not created a Administration Server. Without the Administration Server, you cannot provide services to support client tools that automate the configuration of connections to DB2 databases, and cannot administer DB2 from your server system or a remote client.

User response: No actions required.

DBI1746W  DB2 Instance is not created.

Explanation: You have not created a DB2 Instance. A DB2 Instance is an environment where you store data and run applications.

User response: No actions required.

DBI1747W  The specified directory already exists.

Explanation: The directory specified in the Home Directory field already exists. If you choose to use this directory you may run into permission problems.

User response: Choose a different directory if this may be a problem.

DBI1750W  Security Risk.

Explanation: Using the default instance user ID here allows this instance to have full access permission to other instances on your system. It is highly recommended to use a different user ID for security reasons.

User response: Press OK to continue, or
Press Cancel to enter a different user ID.

DBI1751W  Protocol not detected.

Explanation: You have selected a protocol that is not detected. DB2 Installer cannot update all of the protocol's required settings. However, you can provide values for this protocol's settings.

User response: Press OK to provide protocol settings, or
Press Cancel to ignore.
The Administration Server is not created.

Explanation: You have not created an Administration Server. Without the DB2 Administration Server, Data Warehouse Agent will not be fully set up.

User response:
- Press OK to continue, or
- Press Cancel to go back.

The DB2 Data Links Manager Administrator is not created.

Explanation: You have not created the DB2 Data Links Manager Administrator. Without the DB2 Data Links Manager Administrator, you cannot administer the DB2 Data Links Manager.

User response:
- Press OK to continue, or
- Press Cancel to go back.

The Administration Server is not created.

Explanation: You have not created a Administration Server. Without the Administration Server, you cannot provide services to support client tools that automate the configuration of connections to DB2 databases, and cannot administer DB2 from your server system or a remote client.

User response:
- Press OK to continue, or
- Press Cancel to go back.

DB2 Instance is not created.

Explanation: You have not created a DB2 Instance. A DB2 Instance is an environment where you store data and run applications.

User response:
- Press OK to continue, or
- Press Cancel to go back.

The specified directory already exists.

Explanation: The directory specified in the Home Directory field already exists. If you choose to use this directory you may run into permission problems.

User response:
- Press OK to use this directory, or
- Press Cancel to go back.

DB2 Instance or Administration Server detected.

Explanation: You have selected to removed the entire DB2 product. However, a DB2 Instance or Administration Server has been detected on your system. If you remove the DB2 product without dropping these instances first, your DB2 Instances may not be able to function properly later on.

User response:
- Press OK to continue, or
- Press Cancel to go back.

DB2 Instance or Administration Server configurations detected.

Explanation: You do not have the Administration Server selected. This will cause all of your Administration Server and DB2 Instance configurations to be discarded.

User response:
- Press OK to continue, or
- Press Cancel to go back.

To set up pkg-name, you will need to install the package.

Explanation: You have chosen to configure a DB2 component for an instance. You will not be able to do so unless the package is installed.

User response: Install the package and try again.

Software prerequisites violated on file set or package pkg-name.

Explanation: An error occurred when verifying software prerequisites on the indicated file set or package. Continuing may result in the product not functioning properly. Do you want to continue without installing its pre-requisites?

User response:
- Press OK to continue without installing its prerequisites, or
- Press Cancel to abort installation.

Software dependencies violated on file set or package pkg-name.

Explanation: An error occurred when verifying software dependencies on the indicated file set or package. Continuing may result in removing all of its software dependencies. Do you want to remove its software dependencies?

User response:
- Press OK to continue, or
- Press Cancel to go back.
DBI1763I English HTML documentation files will also be installed.

Explanation: The English HTML documentation files are required when you select any non-English HTML documentation files for installation. This is to ensure that users will be able to search the entire DB2 documentation library.

DBI1765W A non-existing user ID, InstName, has been detected from the registry.

Explanation: The registry is containing a non-existing user ID. This can be caused by just removing the instance user ID without first dropping the instance. This will not affect the normal operation of DB2, but it is recommended to remove this obsolete user ID from the instance list in the registry.

User response: To remove this user ID from the registry with the command: db2iset -d "<InstName>"

DBI1766W Cannot change the secondary group list of user-ID. Error code: err-code. Required group id: group-ID.

Explanation: An error code was returned when attempting to change the secondary group list of the given user ID. One of the following situations has occurred:

• NIS is running.
• One or more processes are currently being executed under the given user ID.

User response: Add the given group ID to the secondary group list of this user ID so that the Administration Server can function properly.

• If there happens to be any process run under the given user ID, terminate all of these processes and follow the instructions in this message to set up the secondary group list of this user ID.
• If you are running this command on an NIS client, try the instructions to set up the secondary group list of this user ID on your NIS server.

DBI1767W DB2 registry may contain corrupted information.

Explanation: The registry may contain invalid instance information. This is probably due to the fact that an instance or the Administration Server is not deleted properly before removing the DB2 product. If you are re-installing the product and want to keep the existing instance information in the registry, press Cancel. Otherwise, press OK to re-create the registry. Do you want to re-create the registry?

User response:
• Press OK to re-create the registry, or
• Press Cancel to keep the current registry information.

DBI1768I Unable to add db2profile to the .profile file or db2cshrc to the .login file of user inst-name.

Explanation: DB2 has failed to modify the .profile file or the .login file of this user. These files may not exist, or you may not have write permission to them. Without the modification you need to set your environment manually each time when you log in as this user to use DB2.

User response: Respond in one of the following ways:
• Add the profile to the .profile file
• Add the location of db2cshrc to the .profile file

DBI1769W Unable to remove DB2 profile entry from the .profile or the .login file of inst-name.

Explanation: DB2 has failed to comment out the DB2 environment setting line in the .profile file or the .login file of this user. The next time you log in as this user, you may get a message saying that the file db2profile (or db2cshrc) cannot be found. There can be different reasons:

• The two files (.profile and .login) may not exist.
• You may not have write permission on these files.

User response: If you receive a message concerning missing db2profile or db2cshrc, locate your .profile or .login file and comment out the following:

. sqllib/db2profile from your .profile file
source sqllib/db2cshrc from your .login file

DBI1770E Unable to update the file /etc/vfs.

Explanation: The following DB2 Data Links Manager specific entry is required in the /etc/vfs file:

dlfs dlfs_num /sbin/helpers/dlfs_mnthelp none

where dlfs_num is to be set to 12, or some number between 8 and 15 if 12 is already assigned to another fs. The installation process has failed to insert this line into the /etc/vfs file. There may be different reasons:

• You do not have write permission to this file.
• The range 8-15 is all taken up, no number can be assigned to dlfs.

User response: Manually edit the /etc/vfs file, and add the entry for dlfs into this file.

DBI1771I File /etc/vfs has been copied to /tmp/db2.etcvfs.backup.

Explanation: For DB2 Data Links Manager to work, the following line has to be inserted into the /etc/vfs file:

dlfs dlfs_num /sbin/helpers/dlfs_mnthelp none

A backup copy of the original /etc/vfs file has been placed in /tmp/db2.etcvfs.backup.
Modified an existing /etc/rc.dlfs file.

**Explanation:** DB2 has modified an existing /etc/rc.dlfs file with the new dlfs file system mount entry.

**User response:** Examine the file /etc/rc.dlfs to ensure that all entries are correct.

DB2 Data Links Manager is not supported on the version of your current operating system.

**Explanation:** The version of your current operating system is not supported to run DB2 Data Links Manager. However, you can still install and configure the product at your own risk. The following is a list of supported operating systems for DB2 Data Links Manager:
- "<OSlist>"

No language specified.

**Explanation:** You must specify at least one language from those available.

**User response:** Issue the command with no parameters for a complete list.

No topics specified.

**Explanation:** You must specify at least one topic from those available.

**User response:** Issue the command with no parameters for a complete list.

Language not available.

**Explanation:** You specified a language that is not available for installation.

**User response:** Issue the command with no parameters for a complete list.

Topic Package not available.

**Explanation:** You specified a documentation package that is not available for installation.

**User response:** Issue the command with no parameters for a complete list.

ODSSI utilities have not been installed, unable to create DB2 search index.

**Explanation:** ODSSI utilities have not been installed. These utilities (config_search, config_view and config_help) are required to create the search index for the DB2 online documentation.

**User response:** Install the ODSSI utilities, then run the following commands:

```
/opt/IBM/db2/V8.x/doc/db2insthtml lang.locale,
where x is 1 or FPn, where n is the FixPak number
```

to create the search index for DB2 documentation in the language locale lang.locale. Note that whenever you install documentation in any language, English documentation is installed as well. So you should also run the following command to index the English files:

```
/opt/IBM/db2/V8.x/doc/db2insthtml en_US,
where x is 1 or FPn, where n is the FixPak number
```

Possible error in creating/removing DB2 search index for html file.

**Explanation:** DB2 runs the system utilities config_view and config_help to create or remove DB2 search index to be used with SCOHELP. However, error messages may be returned if there exists other non-DB2 indexes on the system that have not been created/removed properly.

**User response:**
- If you were creating the DB2 index, you can start up SCOHELP and check to see if the DB2 entry has been added to the topics panel. Test searching for a string like "TCP/IP" and see if you get any results. If you are able to do the search, DB2 search index has been created successfully.
- If you were removing the DB2 index, you can start up SCOHELP and verify that the DB2 entry has been removed from the topics panel. If the entry is gone, then the DB2 index has been successfully removed.
- If you cannot verify that the DB2 index has been successfully created or removed, contact IBM support.

Creating search index for DB2 documentation files, please wait ...

**Explanation:** Search index for DB2 documentation files are being created. Depending on the language(s) you have selected, this may take some time.

The user ID userID is unknown.

**Explanation:** The specified user is unknown or cannot be found on the current system.

**User response:** Please verify that the user exists on this system and try again.

Attempt to put too many icons into one group.

**Explanation:** An attempt has been made to place more icons into the required folder than are allowed by the desktop manager.

**User response:** Please remove any unnecessary icons from your desktop and retry the command.
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<th>Code</th>
<th>Message</th>
<th>Explanation</th>
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<th>Additional Notes</th>
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<td>DBI1795E</td>
<td>There is insufficient free memory to create all the required icons.</td>
<td>The icon creation utility ran out of memory during icon generation.</td>
<td>Close any unnecessary programs and try again.</td>
<td></td>
</tr>
<tr>
<td>DBI1796W</td>
<td>Attempt to create icons in a directory without proper permissions.</td>
<td>This user ID does not have the permissions required to create icons for the requested user.</td>
<td>Log on as a user with root authority or with the permissions required to create files in the user directory and retry the command.</td>
<td></td>
</tr>
<tr>
<td>DBI1797I</td>
<td>Icons successfully created.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBI1900N</td>
<td>The Microsoft Cluster Server (MSCS) support is not accessible.</td>
<td>DB2 is unable to access the Microsoft Cluster Server (MSCS) cluster.</td>
<td>Ensure the Microsoft Cluster Server (MSCS) support has been correctly installed and the Cluster Service has been started.</td>
<td></td>
</tr>
<tr>
<td>DBI1901N</td>
<td>An error occurred when attempting to update the user rights for the DB2 or Microsoft Cluster Server (MSCS) cluster service.</td>
<td>An error was encountered when attempting to grant the necessary user rights to the account specified for use with the DB2 service.</td>
<td>Ensure a valid account has been specified and that you have the necessary privilege to grant user rights.</td>
<td></td>
</tr>
<tr>
<td>DBI1902N</td>
<td>An error occurred when attempting to update the DB2 or Microsoft Cluster Server (MSCS) cluster service configuration.</td>
<td>DB2 encountered an error when attempting to update the DB2 or Microsoft Cluster Server (MSCS) cluster service configuration.</td>
<td>Ensure the Service Database has not been locked and is accessible. Also ensure the DB2 or Microsoft Cluster Server (MSCS) cluster service has been created.</td>
<td></td>
</tr>
<tr>
<td>DBI1903N</td>
<td>An error occurred when accessing the Cluster registry.</td>
<td>DB2 encountered an error when attempting to read or update the Cluster registry.</td>
<td>Ensure the Microsoft Cluster Server (MSCS) support has been correctly installed and the Cluster Service has been started.</td>
<td>Ensure that the current logon user account has sufficient authority to access the Cluster registry.</td>
</tr>
<tr>
<td>DBI1904N</td>
<td>The DB2 instance is not Clustered.</td>
<td>DB2 attempted to access an instance to perform cluster operations but the instance was not identified as a DB2 Cluster instance.</td>
<td>Verify the instance was created with the Cluster options. The instance may be dropped and re-created using the Cluster option but the Node directory, Database Directory, and Database Manager Configuration file will be lost.</td>
<td></td>
</tr>
<tr>
<td>DBI1905N</td>
<td>A System Error occurred during a DB2 Cluster operation.</td>
<td>A system error was detected while DB2 was performing a Cluster operation.</td>
<td>Check to make sure the Windows operating system is at the correct level for Cluster Support. Also ensure the Microsoft Cluster Server (MSCS) support has been correctly installed and the Cluster Service has been started.</td>
<td></td>
</tr>
<tr>
<td>DBI1906N</td>
<td>A error occurred while attempting to add a node to a DB2 Cluster instance.</td>
<td>An error was encountered while attempting to update a node to support a DB2 Cluster instance.</td>
<td>Ensure the remote system is on-line and accessible over the LAN. Also ensure you have the necessary privilege to update the Registry on the remote system.</td>
<td></td>
</tr>
<tr>
<td>DBI1907N</td>
<td>A error occurred while attempting to delete a node from a DB2 Cluster instance.</td>
<td>An error was encountered while attempting to delete a node from a DB2 Cluster instance.</td>
<td>Ensure the remote system is on-line and accessible over the LAN. Also ensure you have the necessary privilege to update the Registry on the remote system.</td>
<td></td>
</tr>
</tbody>
</table>

A workstation cannot drop cluster support from itself.
The instance must be dropped to perform this task.

**DB1908N**  A error occurred while attempting create the instance profile on a remote system.

**Explanation:** A error was detected while attempting to create the instance profile on a remote system to enable Cluster Support.

**User response:** Ensure the remote system is on-line and accessible over the LAN. Also ensure you have the necessary privilege to update the Registry on the remote system.

**DB1909N**  A error occurred while attempting delete the instance profile on a remote system.

**Explanation:** A error was detected while attempting to delete the instance profile on a remote system to disable Cluster Support.

**User response:** Ensure the remote system is on-line and accessible over the LAN. Also ensure you have the necessary privilege to update the Registry on the remote system.

**DB1910N** Usage : **DB2NCRT** -I:Instance-Name -C:cluster-node

**Explanation:** The user specified incorrect arguments to the DB2NCRT command.

**User response:** Re-issue the command specifying a clustered instance and a valid workstation name for the cluster node.

**DB1911N** Usage : **DB2NLIST** -I:Instance-Name

**Explanation:** The user specified incorrect arguments to the DB2NLIST command.

**User response:** Re-issue the command specifying a clustered instance.

**DB1912I** The DB2 Cluster command was successful.

**Explanation:** The user request was successfully processed.

**User response:** No action required.

**DB1913N** Unable to connect to the remote machine registry.

**Explanation:** DB2 encountered an error when attempting to connect to the Windows registry on a remote machine.

**User response:** Ensure that the target machine is running and that the computer name specified is correct. Also ensure that the current logon user account has sufficient authority to connect to the remote machine registry.

**DB1914N** Unable to connect to the Cluster registry.

**Explanation:** DB2 encountered an error when attempting to connect to the Cluster registry.

**User response:** Ensure that the Microsoft Cluster Server (MSCS) support has been correctly installed and the Cluster Service has been started.

**DB1915N** The target machine does not belong to the Microsoft Cluster Server (MSCS) cluster.

**Explanation:** The command failed for one of the following reasons:

1. The db2iclus utility attempted to remove a machine from a DB2 MSCS instance but the target machine had not been added to the DB2 MSCS instance, or
2. The db2iclus utility attempted to add a machine to a DB2 MSCS instance but the target machine does not have the required Microsoft Cluster Server (MSCS) support software installed.

**User response:** Follow the action corresponding to the cause of the problem:

1. Ensure that the machine is part of the DB2 MSCS instance by running the "db2iclus list" command, or
2. Install the Microsoft Cluster Server (MSCS) cluster software on the target machine and issue the command again.

**DB1916N** The instance name specified is not valid.

**Explanation:** The instance specified by the instance name parameter does not exist for the local machine.

**User response:** To find a list of valid instances, run the db2ilist command. Issue the command again using a valid instance name.

**DB1917I** The instance upgrade or instance update completed successfully. However you might need to reconfigure any ODBC data sources for instances cataloged under this instance.
DBI1918N • DBI1927N

Explanation: The instance upgrade or instance update is not able to determine which ODBC data sources are associated with the instance that was upgraded or removed. As a result, these data sources were not modified.

User response: Reconfigure the data sources using the DB2 CATALOG ODBC DATA SOURCE command, the Configuration Assistant or the Data Sources (ODBC) control panel applet so you can access these data sources.

---

DBI1918N An error occurred when accessing the Windows registry.

Explanation: DB2 encountered an error when attempting to read or update the Windows registry of the target machine.

User response: Ensure that the current logon user account has sufficient authority to access the Windows registry of the target machine. If you already have a clustered instance, ensure the cluster service is started. If the problem persists, contact your IBM service representative for assistance.

---

DBI1919N An error occurred when accessing the TCP/IP services file.

Explanation: DB2 encountered an error when reading or updating the TCP/IP services file.

User response: Ensure that the services file exists in the system and that the file can be accessed for read and write authority. Also, ensure that the contents of the file are valid and no duplicate of entries exist in the services file.

---

DBI1920N The DB2 instance profile path parameter is not valid.

Explanation: DB2 is unable to access the DB2 instance profile path specified because the path does not exist or write access has not been given to the current logon user account.

User response: Ensure that the path name for the DB2 instance profile points to a valid directory and that the current logon user account has write access to the directory.

---

DBI1921N The user account or password is not valid.

Explanation: The user account or the password is not valid.

User response: Issue the command again with the correct account.

---

DBI1922N The host name is not valid.

Explanation: The TCP/IP host name parameter is not valid or does not exist.

User response: Ensure that TCP/IP is operational on the system. If a domain name server is used, ensure that the domain name server machine is active. Issue the command again using the correct TCP/IP host name.

---

DBI1923N The TCP/IP port range parameter is not specified.

Explanation: The db2icrt utility requires the TCP/IP port range to be specified when creating a partitioned database instance if the entries for TCP/IP port range for the instance have not been added to the services file.

User response: Choose a range of TCP/IP ports that are available for the system and issue the db2icrt command again with the -r option.

---

DBI1924N The computer name is not valid.

Explanation: The computer name parameter is not valid.

User response: Ensure that the target machine is running and that the computer name specified is correct. Also ensure that the current logon user account has sufficient authority to connect to the target machine registry.

---

DBI1925N Unable to query the status of the DB2 service.

Explanation: DB2 is unable to query the service status for the DB2 service.

User response: Ensure that the DB2 service exists on the target machine. Ensure that the current logon user account has sufficient authority to query the service status on the target machine.

---

DBI1926N The password is expired.

Explanation: The account password has expired.

User response: Change your password, then retry the request using the new password.

---

DBI1927N Usage:

```
db2clus { ADD /u:Username,Password [/m:Machine name] | DROP [/m:Machine name] | MIGRATE / p:Instance profile path | UNMIGRATE } [/i:instance name] [/DAS DASname]
```
Explanation:

Valid arguments for this command are:

**ADD**

to add an MSCS node to a DB2 MSCS instance

**DROP**

to remove an MSCS node from a DB2 MSCS instance

**MIGRATE**

to migrate a non-MSCS instance into an MSCS instance

**UNMIGRATE**

to undo the MSCS migration

Valid options for this command are:

**/DAS**
to specify the DAS instance name. This option is required when performing the cluster operation against the DB2 Administration Server.

**/c**
to specify the MSCS cluster name if different from the default/current cluster.

**/p**
to specify the instance profile path. This option is required when migrating a non-MSCS instance into an MSCS instance.

**/u**
to specify the account name and password for the DB2 service. This option is required when adding another MSCS node to the DB2 MSCS partitioned database instance.

**/m**
to specify the remote computer name for adding or removing an MSCS node.

**/i**
to specify the instance name if different from the default/current instance.

User response:

Enter the command again using valid parameters.

---

**DBI1928N**
The user account is not specified.

**Explanation:** When creating a partitioned database instance or adding a node to a partitioned database instance, you must specify the user account parameter. Under the Windows environment, each database manager partition (or MPP node) is required to run under a valid Windows account to access the network share which contains the instance directory.

**User response:** Issue the command again with the `-u` option to specify the user account name and password.

---

**DBI1929N**
The instance is already configured for MSCS support.

**Explanation:** An attempt to upgrade an instance into an MSCS instance failed because the instance is already configured for MSCS support.

**User response:** No action required.

---

**DBI1930N**
The target machine is already part of the DB2 MSCS instance.

**Explanation:** An attempt to add an MSCS node to the DB2 MSCS instance failed because The target machine is already part of the DB2 MSCS instance.

**User response:** No action is necessary.

---

**DBI1931N**
The database partition server (node) is active.

**Explanation:** The database partition server can not be dropped or modified because it is active.

**User response:** Ensure that the database partition server is stopped before attempting to drop or change it. To stop a database partition server, use the `db2stop` command as follows:

```
db2stop dbpartitionnum <db-partition-number>
```
DBI1935N  The db2iupdt command failed to update the instance directory.

Explanation: The db2iupdt command failed to update the instance directory because of one of the following reasons:

(1) the db2audit.cfg file is missing from the \SQLLIB\CFG directory.
(2) the db2iupdt command does not have the required authority to create files or sub-directories within the instance directory.

User response: Ensure that the db2audit.cfg file exists in the \SQLLIB\CFG directory and that the current logon account has sufficient authority to create files and directories in the instance directory. The instance directory is located in \SQLLIB\InstName (where InstName is the name of the instance).

DBI1936N  The db2iupdt command failed to update the database manager configuration file.

Explanation: The db2iupdt command failed to update the database manager configuration file because the previous database manager configuration file is corrupted or missing. The current instance is in inconsistent state and can not be used.

User response: Copy the default database manager configuration file to the instance directory then re-submit the command. The instance directory is located in \SQLLIB\InstName. The default database manager configuration file is named db2systm and can be found in the \sqllib\cfg directory.

DBI1937W  The db2ncrt command successfully added the node. The node is not active until all nodes are stopped and started again.

Explanation: The db2nodes.cfg file is not updated to include the new node until all nodes are simultaneously stopped by the STOP DATABASE MANAGER (db2stop) command. Until the file is updated, the existing nodes cannot communicate with the new node.

User response: Issue db2stop to stop all the nodes. When all nodes are successfully stopped, issue db2start to start all the nodes, including the new node.

DBI1940N  The DB2 Administration Server is active.

Explanation: The DB2 Administration Server cannot be modified because it is active.

User response: Ensure that the DB2 Administration Server is stopped before attempting to change it. To stop the DB2 Administration Server, use the db2admin command as follows:

db2admin stop

DBI1941W  The DB2 Administration Server does not exist.

Explanation: The DB2 Administration Server was not found on the machine.

User response: Create the DB2 Administration Server on the machine.

DBI1942N  The DB2 Administration Server already exists on the target machine.

Explanation: The operation could not be completed because the DB2 Administration Server already exists on the target machine.

User response: Remove the DB2 Administration Server from the target machine and retry the operation.

DBI1943N  The DB2 Administration Server is not Clustered.

Explanation: DB2 attempted to access a DB2 Administration Server to perform cluster operations but the DB2 Administration server is not configured for MSCS support.

User response: Verify the DB2 Administration Server is configured for MSCS support.

DBI1944N  The DB2 Administration Server is already configured for MSCS support.

Explanation: An attempt to upgrade a DB2 Administration Server failed because the DB2 Administration Server is already configured for MSCS support.

User response: No action required.

DBI1945N  The DB2 Copy Name provided does not exist or the DB2 registry is corrupted.

Explanation: To update or upgrade an instance to a specific DB2 copy, the DB2 copy must exist. The DB2 Copy Name provided does not exist or the DB2 registry is corrupted.

User response: Check the DB2 registry table and provide a valid DB2 Copy Name. For a list of the DB2 copies installed, run the db2ls command.

DBI1946N  An invalid argument was entered for the db2iupgrade command.

Explanation: You can upgrade a DB2 database manager instance from one release to a later release by using the db2iupgrade command.
This message is returned when the db2iupgrade command is invoked with an invalid argument.

**User response:** Enter the command again, specifying valid parameters.

**DBI1947N** The db2iupgrade command failed to update the database manager configuration file.

**Explanation:** The db2iupgrade command failed to update the database manager configuration file because the previous database manager configuration file is corrupted or missing. The current instance is in an inconsistent state and cannot be used.

**User response:** Copy the default database manager configuration file to the instance directory, then re-submit the command. The instance directory is located in SQLLIB\instanceName. The default database manager configuration file is named db2systm and can be found in the cfg directory under your installation path.

**DBI1948N** Files cannot be deleted.

**Explanation:** An error occurred when removing files or directories belonging to the specified instance.

**User response:** Ensure that you have write access to the location where the files are located.

**DBI1949E** Upgrading instance inst-name is not supported.

**Explanation:** The instance cannot be upgraded because either:

- Upgrading from this version of the instance is not supported.
- The instance is already using the current version of the product and upgrading is not required.

**User response:** Make sure that the instance version is supported for upgrade and try the command again with a supported instance name or a valid DB2 Copy Name. For details about which DB2 product versions are supported for upgrade, refer to the DB2 Information Center.

**DBI1950W** The instance instance-name was not found in the instance list.

**Explanation:** The specified instance was not found in the instance list.

**User response:** Verify that the list of instances as reported by the db2ilist command is correct.

**DBI1952E** The instance name instance-name is invalid.

**Explanation:** The instance name is invalid because of one of the following reasons:

1. The name is more than 8 characters long.
2. The name starts with sql, ibm, or sys.
3. The name contains characters other than a-z, $, #, @, _, or 0-9.
4. The name does not exist.

**User response:** Try the command again with a valid instance name.

**DBI1953E** The instance drop or update operation failed because the instance is active.

**Explanation:** You can update a DB2 database manager instance to a higher level by using the db2iupdt command. You can remove an instance by using the db2idrop command.

Before you can update or drop an instance, all processes that are running for the instance must be stopped. This message is returned when an attempt is made to update or drop an instance that is active.

**User response:**

1. Wait for all applications that are using the instance to finish processing.
2. Stop the instance by using the db2stop command from the instance user ID.
3. Issue the db2idrop or db2iupdt command again.

**DBI1954E** The instance name is currently used by the DB2 Admin Server.

**Explanation:** The instance cannot be created because it is currently used by the DB2 Admin Server.

**User response:** Try the command again with a different instance name.

**DBI1956I** An invalid argument was entered for the db2ilist command.

**Explanation:** The db2ilist command lists the names of DB2 instances associated with the DB2 installation path where db2list is run.

The syntax for the db2ilist command is:

db2ilist [-h]
Valid arguments for this command are:

- **h**
  Displays the usage information.

**User response:** Enter the command again without any parameters.

**DBI1957E** The syntax of the db2icrt command is incorrect.

**Explanation:** You can create a DB2 database manager instance by using the db2icrt command.

**Syntax:**
```
db2icrt InstName [-s {ese|wse|standalone|client}] [-p instance profile path] [-u username,password] [-h hostname] [-r baseport,endport] [-j textSearchConfig] [-?]
```

**User response:** Enter the command again using the valid parameters.

**DBI1958N** The instance profile cannot be added to the registry.

**Explanation:** An error occurred when adding the instance profile to the registry. The instance was not created.

**User response:** Contact your IBM service representative.

**DBI1959N** The instance directory cannot be created.

**Explanation:** An error occurred when creating the required files or directories for the new instance. The instance was not created.

**User response:** Ensure that you have write access to the location where the instance directory is created. The instance directory is created under the path where the product is installed. You can move the instance to another directory by using the /p option in db2iupgrade.

**DBI1960N** The DB2 service cannot be created.

**Explanation:** An error occurred when registering a DB2 service because of one of the following reasons:

1. A service of the same name already exists or was marked as deleted but not cleaned up until the next system reboot.
2. You don’t have sufficient access to create a Windows service.

**User response:**

1. Ensure that the name of the instance does not match any of the existing Windows services. The list of services in the system can be found in the Windows registry under HKEY_LOCAL_MACHINE\System \CurrentControlSet\Services. If the service was marked as deleted, you have to reboot the machine to have the service removed from the system.
2. Log on to a user account that belongs to the local Administrators group and retry the operation.

**DBI1961N** The node key for the new instance cannot be added to the registry.

**Explanation:** An error occurred when adding a node key for the new instance in the instance profile registry.

**User response:** Contact your IBM service representative.

**DBI1962N** The new node cannot be added to the registry.

**Explanation:** An error occurred when adding the new node to the instance profile registry.

**User response:** Contact your IBM service representative.

**DBI1963N** An error occurred when granting the user rights to the account for the instance.

**Explanation:** When configuring the account for the DB2 Service, the user must be granted the user rights:

1. Act as part of the operating system
2. Create a token object
3. Increase quota
4. Logon as a service
5. Replace a process level token

An error occurred when granting the user rights to the account for the instance.

**User response:** If the machine belongs to a domain, ensure that the primary domain controller is active and accessible over the network. Otherwise, contact your IBM service representative.

**DBI1964N** The logon account cannot be assigned to the DB2 service.

**Explanation:** An error occurred when assigning a logon account to the DB2 service.

**User response:** Ensure that the user name and the password for the logon account is valid.
DBI1965N  The node node-number was not found in the node list.

Explanation: The specified node was not found in the node list.

User response: Verify that the node exists by displaying the list of nodes using the DB2NLIST command.

DBI1966N  The node cannot be deleted from the registry.

Explanation: An error occurred when removing the specified node from the instance profile registry.

User response: Contact your IBM service representative.

DBI1967N  The DB2 service cannot be de-registered.

Explanation: An error occurred when de-registering a DB2 service.

User response: Ensure that you have sufficient authority to delete a Windows service.

DBI1968N  An error occurred when changing the node configuration in the profile registry.

Explanation: An error occurred when changing the node configuration in the profile registry.

User response: Contact your IBM service representative.

DBI1969N  An error occurred when creating a new file in the instance directory.

Explanation: An internal error occurred when creating a new file in the instance directory.

User response: Ensure that you have write access to the instance directory.

DBI1970N  An error occurred when reading from or writing to a file in the instance directory.

Explanation: An internal error occurred when reading from or writing to a file in the instance directory.

User response: Contact your IBM service representative.

DBI1971N  The instance profile cannot be removed from the registry.

Explanation: An error occurred when removing the instance profile from the registry.

User response: Make sure that the instance is valid for update and then try the command again with a valid instance name.

DBI1972N  The instance directory cannot be removed.

Explanation: An error occurred when removing the required files or directories belonging to the specified instance.

User response: Ensure that you have write access to the location where the instance directory is located.

DBI1973N  An attempt to configure the DB2 service to start automatically failed.

Explanation: An error occurred when setting the DB2 service to start automatically.

User response: Reboot the machine and try the command again. If the problem persists, contact your IBM service representative.

DBI1974N  The profile variable DB2ADMINSERVER cannot be set in the profile registry.

Explanation: An error occurred when setting the profile variable DB2ADMINSERVER in the profile registry.

User response: Contact your IBM service representative.

DBI1975N  The environment variable DB2ADMINSERVER cannot be removed from the profile registry.

Explanation: An error occurred when removing the environment variable DB2ADMINSERVER in the profile registry.

User response: Contact your IBM service representative.

DBI1978E  Update of instance inst-name is not supported.

Explanation: The DB2 copy of the instance does not have the same version number as the target DB2 copy. You can only update an instance from one copy to another if both copies have the same version. To move a DB2 instance between different versions, use the db2upgrade command.

User response: Make sure that the instance is valid for update and then try the command again with a valid instance name.
DBI1980W Unable to create user ID userID in UPM.

Explanation: The user ID that you provided during product installation could not be created in User Profile Management (UPM). This user ID is required to start the DB2 Administration Server.

User response: Manually create a user ID and password using UPM and then manually start the DB2 Administration Server. You may need to set the DB2 Administration Server to use this user ID and password combination using the “db2admin” command.
Chapter 86. DBI20000 - DBI20499

**DBI20000E**  A DB2 instance could not be created as specified. A rollback of the instance creation will be started.

**Explanation:** The message indicates that the instance creation failed. Instance rollback happens on all involved hosts. Instance rollback is triggered if one of the following happens:

- Any operation (DB2 binary installation, GPFS cluster setting, RSCT peer domain setting, and instance file set creation, for example) fails on install-initiating host (IIH).
- Any operation fails on a CF host.
- Any operation fails on all member hosts.

Instance rollback does not roll back DB2 binaries.

**User response:** For details, see the installation log. By default, the installation log is located in the /tmp directory. Additional error messages and details are contained in the log file. After fixing the problems shown in the log file, re-run the instance creation command.

**DBI20001E**  A DB2 instance could not be created as specified. A rollback of the instance creation has been performed.

**Explanation:** Instance creation rollback has been performed on all involved hosts. If DB2 binaries are successfully installed, they will not be rolled back. The DB2 pureScale instance that was partially created during the current installation has been removed.

**User response:** For details, see the installation log. By default, the installation log is located in the /tmp directory. After fixing the problems shown in the log file, re-run the instance creation command.

**DBI20002E**  A DB2 instance has been partially created. DB2 members that could not be added successfully will not be included in the instance. A cleanup of the affected members will be started.

**Explanation:** The message occurs when the instance is partially created on some of the hosts. Instance rollback happens on the hosts where the instance creation did not complete. Some immediate messages in the installation log after this line are rollback related. Rollback of the partial instance creation is triggered if any operation (DB2 binary installation, GPFS cluster setting, RSCT peer domain setting, instance file set creation, for example) fails on a member host, then rollback happens on the corresponding host.

**User response:** To determine the members that were not successfully added into the instance, see the log file. Additional error messages and details are contained in the log file. After fixing the problems shown in this log file, re-run the instance creation command.

**DBI20004E**  An error occurred while removing registry_variable global registry variable record on the following hosts: host-name-list.

**Explanation:** This error occurs when removing the GPFS_CLUSTER global registry or the PEER_DOMAIN global registry from specific hosts.

**User response:** Contact IBM Software Support.

**DBI20006E**  Installing the IBM Data Server Driver Package failed because the installer could not determine whether to install a new copy or to upgrade an existing copy because no copy name was specified.

**Explanation:** On Windows operating systems, the IBM Data Server Driver Package simplifies application deployment. This driver, which has a small footprint, is designed to be redistributed by independent software vendors (ISVs) and to be used for application distribution in mass deployment scenarios typical of large enterprises.

You can install the IBM Data Server Driver Package or perform a maintenance install on an existing copy of the driver package using either the DB2 Setup wizard or the SETUP command. When you install the IBM Data Server Driver Package, the behavior of the installer depends on whether there are copies of the driver package already installed and whether a driver package copy name is specified to the install utility.

This message is returned when an attempt is made to install the IBM Data Server Driver Package and the installer cannot determine whether to create a new copy of the driver package or to perform a maintenance install on an existing copy of the driver package.

**User response:** To install a new copy of the IBM Data Server Driver Package, use one of the following methods:

**Using the GUI installer**

- Install a new copy using the generated, default name by issuing the SETUP command with the /o option.
• Install a new copy using a name you choose by issuing the SETUP command with the /n <copy-name> option.

Using a silent install
Set the COPY_NAME keyword to a new copy name in the response file.

To perform a maintenance installation on an existing IBM Data Server Driver copy, specify which copy to upgrade using one of the following methods:

Using the GUI installer
Issue the SETUP command with the /n <copy-name> option to specify the copy you want to upgrade.

Using silent install
Set the COPY_NAME keyword to the existing copy you want to upgrade in the response file.

DBI20007E  Upgrading the IBM Data Server Driver for ODBC and CLI failed because multiple copies of the driver exist on the system and the upgrade utility could not determine which copy to upgrade.

Explanation: You can install multiple copies of the IBM Data Server Driver for ODBC and CLI on the same machine. You might want to do this if you have two database applications on the same machine that require different versions of the driver. When multiple copies of the driver exist on this system, you can identify one of them as the "default" copy.

To upgrade a copy of the IBM Data Server Driver for ODBC and CLI when multiple copies of the driver are installed on the same system, the upgrade utility can determine which copy to upgrade in two ways: The name of the copy to upgrade can be specified with the upgrade command. If one of the copies is identified as the default and no name is specified with the upgrade command, the upgrade utility will upgrade the default copy.

This message is returned when an attempt is made to upgrade one of multiple copies of the IBM Data Server Driver for ODBC and CLI on a system and none of the existing copies is set as the default and no copy was specified by name with the upgrade command.

User response: To upgrade an existing IBM Data Server Driver copy, specify which copy to upgrade using one of the following methods:

Using the GUI installer
Issue the SETUP command with the /n <copy-name> option to specify the copy you want to upgrade.

Using silent install
Set the COPY_NAME keyword to the existing copy you want to upgrade in the response file.

DBI20008W Neither the Path environment variable nor the Classpath environment variable were updated during the installation of the IBM Data Server Driver Package because the following DB2 copy was previously installed: copy-name.

Explanation: When you install the IBM Data Server Driver Package, you can specify that the Data Server Driver Package should be the default database client interface.

When the Data Server Driver Package is set as the default database client interface during install, the Path and Classpath environment variables are automatically updated to include Data Server Driver Package details. However, if the Data Server Driver Package install detects that another IBM data server client or driver is already installed, the Path and Classpath environment variables will not be updated to include Data Server Driver Package details.

This message is returned when the Data Server Driver Package install detects that another IBM data server client or driver is already installed and as a result does not update the Path or Classpath environment variables.

User response: To configure the environment for the Data Server Driver Package, manually update the Path and Classpath environment variables.

DBI20009E Creation of Tivoli SA MP resources for the DB2 instance, instance_name, has failed.

Explanation: This error occurs because of a failure in the creation of Tivoli SA MP resources for the DB2 pureScale instance.

• This error only occurs during DB2 pureScale instance creation. The error will trigger the instance rollback.

• The command that the installer internally calls is db2cluster -cm -resources -create This command is run as the instance user. For more details, see the db2cluster command.

• The log file for this command is <instance_user>/sqlib/db2dump/db2diag.log. Since a rollback rolls back <instance_user>/sqlib, the file is backed up as /tmp/db2diag.log.process_id.

• There are multiple possibilities that may cause this error. A possible reason for this is that the db2nodes.cfg is incorrect or failed to be created. The file can be found at <instance_user>/sqlib/db2nodes.cfg. During rollback, the file is backed up as /tmp/db2nodes.cfg.process_id.

For more information, see the post-installation recommendations section of this log.
User response: When this error occurs and instance rollback is triggered, contact IBM service with all log and trace files. For details about trace and log file collection, see the DB2 Information Center.

DBI20010W The DB2 installer detected that a copy of Tivoli SA MP is already installed, and that the version of the currently installed Tivoli SA MP product is older than the version that is included in the DB2 product installation media. If the DB2 installation proceeds, Tivoli SA MP will be updated or upgraded to the following new version: new-SA-MP-version.

Explanation: You can use the copy of the Tivoli System Automation for Multiplatforms (SA MP) Base Component that is integrated with your DB2 database product to manage the high availability of your DB2 database system. You can install IBM Tivoli SA MP by using either the DB2 installer or the installSAM installation script that is included in the DB2 product installation media.

The DB2 product is intended to use the version of Tivoli SA MP that is included in the DB2 product installation media. If an older version of Tivoli SA MP is already installed before the DB2 product is installed, Tivoli SA MP must be updated or upgraded to the version that is included in the DB2 product installation media.

This message is returned when the DB2 installer detects an older version of Tivoli SA MP is already installed.

User response: Optional: verify that other software on the system that is using the currently installed version of Tivoli SA MP is compatible with the new version of Tivoli SA MP.

DBI20011E Deletion of the RSCT peer domain, domain_name, failed. Manually remove the domain by running the following command: command.

Explanation: Deletion of the RSCT peer domain error can occur during a rollback or when running the db2idrop -g command.

User response: To manually remove the RSCT peer domain by performing the following steps:
1. Check if there is still resource attached to the peer domain by running lssam. If not, proceed to step 5.
2. Switch to the instance owner by su - instance_owner
3. Remove resource by db2cluster -cm -repair -resources
4. Switch back to root.
5. Remove RSCT peer domain by db2cluster -cm -delete -domain domain_name. For more information, about manually cleaning up an IBM Reliable Scalable Cluster Technology peer domain, see the DB2 Information Center.

DBI20012W The DB2 installer successfully upgraded the SA MP Base Component. Previous version: old-SA-MP-version. New version: new-SA-MP-version. However, the license of the new SA MP product is a trial license, not a full license.

Explanation: You can upgrade IBM Tivoli System Automation for Multiplatforms (SA MP) using either the DB2 installer or the installSAM install script that is included in the IBM Data Server install media.

Depending on which DB2 product licenses you have purchased, there are conditions under which you can use IBM Tivoli System Automation for Multiplatforms (SA MP) that is integrated with IBM Data Server.

This message is returned when a fully licensed version of SA MP Base Component is upgrade to a version of SA MP that has only a trial license. It is possible that if the host machine on which the trial version of the SA MP product is installed is restarted, the SA MP product will not longer function.

User response: For full use of the SA MP product, update the trial license of the SA MP product by performing the following steps:
1. Acquire a full license key from either the IBM Passport Advantage web site or the activation CD in an installation media pack from IBM.
2. Register the license key by using the db2licm command.

DBI20013E The DB2 installer detected that the given device path device_path is a symbolic link on the host host_name.

Explanation: This message indicates that the given device path for tie-breaker device path, or instance shared device, is a symbolic link. The device path must be a storage device.

User response: Specify a valid storage device as the device path.

DBI20014E Removal of DB2 resources has failed for DB2 instance instance_name.

Explanation: Instance resource is the RSCT resource created for the DB2 pureScale instance during instance configuration. The instance is not in a usable state.

User response: This error might occur when a DB2 pureScale instance creation is rolled back or a DB2 pureScale instance is dropped.

The command that the installer internally calls is db2cluster -cm -resources -delete running as the instance user. For more details, see the db2cluster command.
DBI20015E • DBI20019E

- During db2idrop -g, if instance resource deletion
  fails, no further instance dropping action will be
  performed. The log file for this command is
  <instance_user>/sqlib/db2dump/db2diag.log.
- Check if <instance_user>/sqlib/db2nodes.cfg is
  valid.
- During a rollback in instance creation, instance
  resource deletion will also be called. Since rollback
  rolls back <instance_user>/sqlib, the file is backed
  up as /tmp/db2diag.log.process_id.

User response: For more details, see the db2diag.log
for error messages. This log file can be found in
<instance_user>/sqlib/db2dump/db2diag.log. Correct
the problem and rerun the db2idrop command.

DBI20015E Shrink the RSCT peer domain,
<domain_name>, failed on the following
hosts: <host-name-list>. Manually remove
the hosts by running the following
command: command.

Explanation: This error can occur during partial
rollback or db2iupdt -drop. It occurs because shrinking
of the RSCT peer domain has failed.

User response: Manually remove failed hosts from the
RSCT peer domain by performing the following steps:
1. Check if there are still resources attached to the host
   by running lssam.
   • if a resource is still attached, proceed to step 2.
   • if a resource is not attached, run db2cluster -cm
     -remove -host host_name from IIH.
2. From the install-initiating host (IIH), switch to the
   instance owner by running su - instance_owner.
3. Remove resource by running db2cluster -cm -delete
   -resources.
4. Switch back to root.
5. Remove the failed hosts from the RSCT peer
   domain by running db2cluster -cm -remove -host
   host_name.
6. Switch to the instance owner again.
7. Recreate the resources by running db2cluster -cm
   -create -resources.
8. Switch back to root.

DBI20016E The cluster interconnect netname
<net_name> for host <host_name> is not on the
same subnet as the installation-initiating
host.

Explanation: This error occurs when the cluster
interconnect netname for a host is not on the same
subnet as the installation-initiating host.

All cluster interconnects need to be on the same subnet
for performance reasons (all hosts within the same
subnet can usually be reached in one routing hop). For
example if the cluster interconnect network is
configured with the network address 192.168.0.0/24,
then all cluster interconnect netname addresses should
start with 192.168.0 (for example, 192.168.0.1,
192.168.0.2, and so on).

User response: Check the network card configuration
on the new host (for example run ifconfig -a ) and
check /etc/hosts if a name was used instead of an
address. Reconfigure the network adapter or choose a
different one.

DBI20017E The cluster interconnect netname
<net_name> is invalid.

Explanation: The DB2 installer cannot identify the
cluster interconnect netname.

User response: Check the following:
• Check the command for a typo error
• Check the machine’s network configuration (for
  example check /etc/hosts) or
• Use the ping and nslookup tools to confirm the
  cluster interconnect netname maps to the same IP
  address on all hosts. Check that the IP address maps
  back to the same cluster interconnect netname on all
  hosts.

Enter the netname or IP address of a valid device.

DBI20018E The cluster interconnect netname for
host <host_name> failed to ping the
installation-initiating host.

Explanation: When adding a new host, validation
checks to see if the new host can send a small data
packet to the install-initiating host (IIH) and receive a
reply. This send-reply test is commonly known as a
ping. This message is the result of a failed ping.

User response: Check the network adapter and cable,
or choose a different one. If there is a problem, you
can verify the results by running this command line from
the remote host’s console: ping <installation-initiating
host name>. After it is verified that the problem occurs
outside the DB2 installer, there are various things you
can check to find the source of the problem. For
example:
• bad physical connections (for example a loose cable),
• a non-working network adapter driver,
• misconfigured network.

DBI20019E The DB2 installer detected a conflict
between the DEFAULT_INSTPROF
record and the instance shared directory
specified.

Explanation: The DEFAULT_INSTPROF record in the
Global Registry indicates the instance shared file
system has already been set up by the DB2 installer.
this case, the following options or keywords are not needed:

- For response file installations:
  - INSTANCE_SHARED_DEVICE_PATH
  - INSTANCE_SHARED_DIR
- For the db2icrt or db2iupdt command:
  - instance_shared_dev
  - instance_shared_dir

If the value for INSTANCE_SHARED_DIR (or instance_shared_dir) does not match with the existing instance shared file system mount point, the installation fails.

User response: Do not specify the instance shared directory.

DBI20020E  The DB2 installer detected that GPFS cluster cluster_name was previously created on host host_name. However, the GPFS cluster is offline on that host.

Explanation: A GPFS cluster created by the DB2 software already exists. To create a DB2 pureScale instance by reusing this GPFS cluster, bring the cluster online on the specified host.

User response: To start the GPFS cluster, run the following command:
<installed_path>/bin/db2cluster -cfs -start -all

For details about the db2cluster command, see the DB2 Information Center.

DBI20021E  The DB2 installer detected that the reg-var variable record is defined in the global registry. However, the value dir-name is not an existing directory.

Explanation: This message occurs if the global registry variable record specified indicates that a shared file system already exists. The DB2 product expects a shared file system exists for the instance shared file.

The directory name value is the mount point for the file system. The DB2 installer detects the mount point does not exist on the system. A possible reason is the specified global registry record is left over from a previous DB2 operation and the actual file system does not exist anymore, or, the filesystem was remounted somewhere else but the registry entry was not changed.

User response: Contact IBM Software Support.

DBI20022E  The DB2 installer detected that the given device path device_path is not a valid device on host host_name.

Explanation: This message indicates that the given device path for tie-breaker device path, or instance shared device, is not a storage device. The device path must be a storage device. A device can be invalid for the following reasons:
- there are existing files or directories
- the device does not exist
- the device is not a storage device, such as pipe, fifo device, character device
- root has no searchable access authority to the given path
- the path name is too long.

User response: Specify a valid storage device as the device path.

DBI20025E  The DB2 installer detected that the IBM Reliable Scalable Cluster Technology (RSCT) peer domain domain_name was previously created on host host_name by DB2, but the peer domain is offline on that host.

Explanation: This error occurs when the DB2 installer detects an RSCT peer domain was previously created on a host, but it is offline and the installation-initiating host is in a different RSCT peer domain. The remote host must be removed from the host list.

User response: Contact IBM Software Support.
To remove the host from a DB2 pureScale instance:

1. Log on to a different host which belongs to the same DB2 pureScale instance
2. Run `db2iupdt [-d] -add -m|cf <host_name>:<interconnect_name> -u <fenced_id> <instance_owner>`

For details about the `db2iupdt` command, see the DB2 Information Center.

![Image of a page from a document with text](image)

**User response:** To remove the host from a DB2 pureScale instance:

1. Log on to a different host which belongs to the same DB2 pureScale instance
2. Run `db2iupdt [-d] -add -m|cf <host_name>:<interconnect_name> -u <fenced_id> <instance_owner>`

For details about the `db2iupdt` command, see the DB2 Information Center.

**DBI20026E** The following hosts **host-name-list** are not included in the instance.

**Explanation:** This post installation message shows the hosts that have not been included in the instance due to an error. If DB2 binaries were successfully installed, they have not been removed. Look in the installation log for more information on the error that has caused this rollback.

**User response:** After fixing the problems shown in this log file, extend the instance to these hosts by running the instance extension command (db2issetup -add or db2iupdt -add).

![Image of a page from a document with text](image)

**DBI20027E** The GPFS cluster, **db2cluster_xxxx**, failed to create the file system **fs_name**. Failed command: **command_name**.

**Explanation:** This message occurs when the GPFS file system creation fails.

**User response:** Refer to the db2cluster command log file. This log file can be found in /tmp/ibm.db2.cluster.*. Additional error messages and details are contained in the log file. After the problem is solved, rerun the command.

![Image of a page from a document with text](image)

**DBI20028E** The GPFS cluster, **db2cluster_xxxx**, cannot be deleted using the **command_name** command.

**Explanation:** This message occurs when the GPFS cluster fails to be deleted during a rollback.

**User response:** Refer to the db2cluster command log file. This log file can be found in /tmp/ibm.db2.cluster.*. Additional error messages and details are contained in the log file. After the problem is solved, rerun the command to remove the host from GPFS cluster.

![Image of a page from a document with text](image)

**DBI20029E** The GPFS cluster, **db2cluster_xxxx**, failed to extend to host, **hostname**. Failed command: **command_name**.

**Explanation:** This message occurs when the GPFS cluster extension to the host fails.

**User response:** Refer to the db2cluster command log file. This log file can be found in /tmp/ibm.db2.cluster.*. Additional error messages and details are contained in the log file. After the problem is solved, rerun the command to extend the host.

![Image of a page from a document with text](image)

**DBI20030E** The host **host_name** did not finish validation within the time out period **time_period**. To change the time out time, set the new time out value (in minutes) using environment variable **environment-variable-name**.

**Explanation:** This error occurs because a validation process on the remote machine did not return within the required time out period.

**User response:** If your machine is slow, you can extend the time out time to give it more time to complete. To change the time out time, set the new time out value (in minutes) using environment variable "environmentvariable1". Rerun the installation command.

If the machine is hanging, collect all information files and contact IBM service.

![Image of a page from a document with text](image)
For details about the db2iupdt command, see the DB2 Information Center.

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**DBI20037E**  The remote host *host_name* belongs to an active IBM Reliable Scalable Cluster Technology (RSCT) Peer Domain which was previously created by the DB2 pureScale Feature, but the installation-initiating host is in a different RSCT peer domain.

**Explanation:** This error occurs when the DB2 installer detects that an RSCT peer domain was previously created by the DB2 pureScale Feature but the installation-initiating host is in a different RSCT peer domain.

**User response:** Perform one of the following actions:
- Remove the remote host from the host list.
- If the remote host belongs to a DB2 pureScale instance, remove that host from that DB2 pureScale instance by calling the db2iupdt command specifying the -drop parameter.

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**DBI20038E**  The remote host *host_name* belongs to a GPFS cluster.

**Explanation:** The DB2 product does not allow the joining of multiple GPFS clusters. The current host and the remote host indicated belongs to different GPFS clusters.

When the install-initiating host (IIH) is part of a GPFS cluster, the remote host should either not belong to a GPFS cluster, or, belong to the same GPFS cluster. When IH is not part of a GPFS cluster, the remote host should not belong to a GPFS cluster.

**User response:** To resolve this error, perform one of the suggestions below and reissue the command:
- Remove the remote host from the host list.
- Prior to adding the host to the current DB2 pureScale setup, remove the host from the other GPFS cluster.
- For an instance creation, to reuse the GPFS cluster defined on the remote host, start the instance creation on the remote host.

Reissue the command.

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**DBI20039E**  The new copy, *new-copy-name*, must be installed to another path. The installation path specified, *new-copy-path*, contains an existing DB2 product with the DB2 copy name *existing-copy-name*.

**Explanation:** DB2 requires that new copies are installed to a path which does not contain an existing copy.

**User response:** To install the new copy, specify a new path. To work with the DB2 product installed at this
location, exit the installation and select the 'Work with Existing' option from the DB2 Setup Launchpad.

**DBI20040E** The path specified in the response file by the keyword FILE, provided-path, contains an installed DB2 copy with DB2_COPY_NAME existing-copy-name that does not match the copy name provided in the response file, provided-copy-name.

*Explanation:* The path and name pair provided in the response file by keywords FILE and DB2_COPY_NAME is invalid. The path specified contains an existing DB2 copy with a copy name that is different from the copy name provided. A path may only contain a single DB2 copy.

*User response:* Ensure the correct copy name and path are provided and run the command again.

**DBI20041E** You cannot drop host host_name from the instance instance_name because host host_name is the installation-initiating host (IIH). Host host_name can be dropped from another host in the instance.

*Explanation:* The db2iupdt -drop command will not drop the last cluster caching facility or the last member, in the DB2 pureScale instance. You must run the db2iupdt -drop command from a host that will still belong to the instance after you've dropped the cluster caching facility or member.

*User response:* The specified host can be dropped from another host in the instance using the db2iupdt -drop command.

**DBI20042E** The response file keyword DB2_COPY_NAME value, provided-copy-name, is invalid for the path, provided-copy-path, specified by the keyword FILE. That copy exists on path existing-copy-path.

*Explanation:* The DB2_COPY_NAME provided exists, but not on the path provided. When working with an existing copy of DB2 installed on Windows, the correct installation path must be specified.

*User response:* To perform a new installation, specify a unique value for DB2_COPY_NAME. To work with an existing copy, ensure the keyword DB2_COPY_NAME corresponds to the correct path specified by keyword FILE.

**DBI20043E** DB2 failed to install because of restrictive permission settings on the temporary directory, tmp-directory.

*Explanation:* The temporary directory is used by DB2 to store files necessary for creating and managing instances and database objects. To install or update DB2 the temporary directory must be enabled for read, write and execute access to all users.

*User response:* Enable read, write and execute permission on the temporary directory for all users. On Linux and UNIX this can be accomplished with the command chmod 0777. In a DB2 pureScale environment, be sure all hosts have the proper permission settings.

**DBI20044E** The parameter parameter-name is missing or invalid.

*Explanation:* The specified parameter is either missing, or invalid. Some parameters are mandatory in a response file for the specified command, however, certain combinations are not supported. For example, the PREFERRED_PRIMARY_CF parameter, or the PREFERRED_SECONDARY_CF parameter, can only be specified for a instance type of 'dsf'.

*User response:* Check the response file for the specified parameter. For more details on response files, and parameter combinations for the command, see the DB2 Information Center.

**DBI20045E** DB2 failed to create a DB2 pureScale instance because the detected operating system is not supported.

*Explanation:* The DB2 pureScale Feature for Linux is only supported on specific distributions.

*User Action* Consult the documentation for installing the DB2 pureScale Feature for information on software considerations in the installation prerequisites.

*User response:*

**DBI20046E** The DB2 pureScale instance could not be created because the uDAPL configuration file could not be accessed.

*Explanation:* The user Direct Access Programming Library (uDAPL) configuration file could not be accessed while attempting to create the DB2 pureScale instance. The DAPL configuration file is referenced by the DB2 pureScale Feature to verify the presence of a remote direct memory access (RDMA) capable network adapter. The file must be accessible on the path /etc/dat.conf.

*User response:* If a backup copy of the file exists, restore it to the original location.
The DB2 installation process failed on the following host or hosts: host-list.

Explanation: All software components of the DB2 pureScale Feature are installed and configured from a single host. If the installation of the feature fails on any one of the host machines, the DB2 installation process cannot complete.

There are several reasons why the installation process might have failed on a host machine:
- The host name cannot be found.
- The host is unreachable.
- Someone other than the root user is performing the installation.
- Your system does not meet all uDAPL or InfiniBand prerequisites.
- There is not enough disk space available in the /root or /tmp path to complete the installation.

User response: To help you identify and resolve the reason for the installation failure you can collect diagnostic data by using the db2support tool provided with the install image.

To collect diagnostic data from the affected host or hosts, run the 'db2support -install' command with the -host option. For more information about troubleshooting DB2 installation problems with the db2support -install command, see the DB2 Information Center.

The DB2 installation failed because an adapter could not be found to link to the cluster interconnect on one or more hosts. Hosts: host-names.

Explanation: All hosts in a DB2 pureScale environment must be connected to a low latency, high-speed interconnect.

User response: Ensure your environment meets the installation prerequisites listed in the DB2 Information Center and then rerun the installation.

The installFixPack command failed. The base DB2 copy contains DB2 pureScale instances, however the DB2 installer cannot detect the hosts in these instances. To install the fix pack on the local host only, rerun the installFixPack command with the -L parameter. To install the fix pack on all hosts, rerun the installFixPack command with the -H parameter specifying the host list file.

Explanation: The DB2 installer cannot detect which hosts require the fix pack to be applied.

User response: Rerun the command specifying to apply the fix pack to either the local host or to all hosts.

When the installFixPack command is run with the -p parameter, the instances are not updated automatically. You must manually update the instances using the db2iupdt command. If the fix pack is applied on multiple hosts, you must run the db2iupdt command on all hosts.

Explanation: The installFixPack -p parameter does not automatically update instances. This must be performed manually.

User response: Run the db2iupdt command as indicated.

The DB2 installation has failed on the remote hosts host_name. Review the logged errors then re-run the installFixPack on those machines.

Explanation: The fix pack was not installed successfully. The error log contains details.

User response: Review the error log for additional information.

The fix pack update failed because the DB2 pureScale component is not installed on this host.

Explanation: In environments that are not DB2 pureScale environments, a fix pack cannot be applied across hosts.

In DB2 pureScale environments, to apply fix pack update across multiple hosts, the DB2 copy must have the DB2 pureScale component installed on every host.

User response:
1. Remove the host that does not contain DB2 pureScale component from the host list file.
2. Rerun the installFixPack command.

The service level (version, release, modification level) on this host is different from the service level on the IIH. Current host level: host_level. IIH level: iih_level. To apply a fix pack update across multiple hosts, the base DB2 copy on all hosts must have the same service level. Apply the fix pack required to bring this host and the IIH to the same service level, and rerun the installFixPack command. Otherwise, rerun the installFixPack command with the -H parameter with the current host removed from the host list file.

Explanation: All hosts must have the same service level to proceed.

User response: Rerun the installFixPack as indicated.
DBI20054C  The IIH host is not listed in the specified host list file. IIH host host_name.

Explanation: The IIH host must be listed in the host list file provided by the -H parameter.

User response: Add the IIH host to the host list file and rerun the installFixPack command.

DBI20055I An invalid value was entered for the port number when configuring the TCP/IP settings for a DB2 instance. Value: port-value.

Explanation: A DB2 instance can be configured during product installation. TCP/IP port values are one of the settings that can be set during instance configuration. The TCP/IP port number is used by a DB2 instance to listen for incoming DB2 connections. This message is displayed when an invalid invalid port number is entered. This message also appears in the log file created during a silent install operation.

User response: Enter a valid port value of between 1024 and 65535 and try again.


Explanation: The IBM Database Add-Ins for Visual Studio are included as a separately installable component with the DB2 Client and the DB2 servers. Once you are finished installing your DB2 product, you will be presented with an option to install the IBM Database Add-Ins for Visual Studio. If you choose this option and a supported version of Visual Studio is not installed, the installation fails because Visual Studio is a requirement to install the IBM Database Add-Ins for Visual Studio.

User response: Install Visual Studio 2008 or Visual Studio 2010 and then retry the product install.

DBI20057I product-name was only installed on Visual Studio 2008 and not on Visual Studio 2005 because Visual Studio 2005 Service Pack 1 was not installed.

Explanation: The IBM Database Add-Ins for Visual Studio are included as a separately installable component with the DB2 Client and the DB2 servers. Once you are finished installing your DB2 product, you will be presented with an option to install the IBM Database Add-Ins for Visual Studio. If you have Visual Studio 2008 and Visual Studio 2005 but your Visual Studio 2005 is not at the Service Pack 1 level, then VSAI will only be installed on Visual Studio 2008.

User response: Install Visual Studio 2005 Service Pack 1 and retry the install of VSAI.

DBI20058I The user user-name could not be deleted during DB2 uninstall.

Explanation: DB2 can create Windows user accounts during the install process, for example a user account can be create as the instance owner. During uninstall you have the option to delete any Windows user accounts created by DB2 during the install process.

This message is displayed when, during a DB2 product uninstall, the uninstall utility tried to delete a Windows user account but failed.

User response: Delete the user account manually.

DBI20059I The user group user-group-name could not be deleted during DB2 uninstall.

Explanation: DB2 can create Windows group accounts during the install process. During uninstall you have the option to delete any Windows group accounts created by DB2 during the install process. This message is displayed when, during a DB2 product uninstall, the uninstall utility tried to delete a group account but failed.

User response: Delete the user group account manually.

DBI20060I The DB2 uninstall utility found users and groups on the system which were created by the DB2 install utility. Users: user-list. Groups: group-list.

Explanation: DB2 can create Windows user and group accounts during the install process. This message is displayed when, during a DB2 product uninstall, users and group accounts are found. These might be in use by another DB2 copy or by other non-DB2 applications. It is recommended keeping these accounts.

User response: One of the following:
   • If you want to keep the users and groups then select Yes
   • If you don't want to keep the users and groups then select No.

DBI20061I The DB2 uninstall utility found users on the system which have been created by the DB2 install utility. Users: user-list.

Explanation: DB2 can create Windows user accounts during the install process. This message is displayed when, during a DB2 product uninstall, user accounts were found. These might be in use by another DB2 copy or by other non-DB2 applications. It is recommended keeping these accounts.

User response: One of the following:
If you want to keep the user accounts then select Yes
If you don’t want to keep the user accounts then select No.

The DB2 uninstall utility found groups on the system which have been created by the DB2 install utility. Groups: group-list.

Explanation: DB2 can create Windows user group accounts during the install process. This message is displayed when, during a DB2 product uninstall, user group accounts were found. These groups may be in use by another DB2 copy or by other non-DB2 applications. It is recommended keeping these accounts.

User response: One of the following:
• If you want to keep the group accounts then select Yes
• If you don’t want to keep the group accounts then select No.

The DB2 installer failed to configure and start the SSH server because GPFS is unavailable. DB2 database manager instance name: instance-name. Host machines: host-machine-name-list.

Explanation: You can securely run commands from remote machines by using a secure shell (SSH) server product such as IBM Secure Shell Server for Windows or Open Secure Shell (OpenSSH) on Linux and AIX operating systems.

This message is returned when the DB2 installer is configuring a SSH server in an environment with IBM General Parallel File System (GPFS) and the installer is unable to complete that SSH configuration on one or more host machines because GPFS is offline.

User response: 1. On each of the host machines listed, restart GPFS manually.
2. Run the DB2 install operation again.

DB2 copy upgrade is not supported from DB2 Version source-version to DB2 Version target-version.

Explanation: A DB2 copy refers to one or more installations of DB2 database products in a particular location on the same computer. If you attempt to upgrade from an unsupported DB2 version, the DB2 copy upgrade will fail.

User response: Attempt the DB2 copy upgrade again specifying source and target DB2 versions that have supported upgrade paths.

No action is required, the cluster is managed by DB2 cluster services.

Explanation: Running the db2cluster_prepare command to takeover the cluster was unnecessary. DB2 cluster services are managing the cluster.

User response: None.

The GPFS cluster does not meet the requirements for a DB2 pureScale instance. Cluster name: cluster. Failed command: command-name.

Explanation: While running the command, the GPFS cluster failed a verification test of the requirements for the DB2 pureScale Feature.

User response: For information on setting up a GPFS cluster, see the DB2 Information Center.

The operation failed because the DB2 global profile registry variable could not be updated on all hosts. Global registry variable: variable-name. Hosts not updated: comma-separated-host-list.

Explanation: The DB2 global registry file on the identified hosts could not be modified during the operation.

User response: Make sure that the DB2 global profile registry can be accessed, then rerun the command.

The command failed to update the DB2 global profile registry variable on one or more hosts. Registry variable: variable-name. Hosts not updated: comma-separated-host-list. Command to run on hosts: command-name.

Explanation: The DB2 global registry file on the identified hosts could not be modified during the operation.

User response: Make sure that the DB2 global-profile registry can be accessed on the identified hosts, then rerun the command as specified on each host to update the DB2 global profile registry file with the variable record.

Communication could not be established between the two hosts. Source host: host-name1. Target host: host-2.

Explanation: All hosts in a DB2 pureScale instance require passwordless SSH access to all other hosts participating in the instance.

User response: Verify that the target machine is online and that passwordless SSH access from the source host has been configured.
DBI20070E  An error occurred running the command because a required component is not installed. Missing component: component-name.

Explanation: The missing component is a prerequisite to running the command.

User response: Install the component on the host, then rerun the command.

DBI20071I The cluster takeover has completed successfully.

Explanation: The user-managed cluster is now managed by DB2 cluster services.

User response: None.

DBI20072W The DB2 cluster services tiebreaker disk validation failed. The tiebreaker specified has not been configured.

Explanation: The DB2 cluster services tiebreaker disk helps a subcluster obtain operational quorum in the event of a failure that leaves exactly half of the DB2 pureScale instance hosts able to communicate with each other. In this event, the subcluster will attempt to get an exclusive lock on the disk to achieve operational quorum. The DB2 pureScale instance can operate without a configured tiebreaker disk, however the instance is more resilient with one.

User response: For more information about DB2 cluster services tiebreaker support, see the shared storage considerations in the DB2 Information Center.

DBI20073E The specified command failed because the value specified for a keyword in the response file was invalid. Value: keyword-value. Keyword: keyword-name.

Explanation: All response file keywords must be applicable to the installation, and all keyword values must be valid. Some commands and keywords are only valid when run by the instance owner, or when the installation includes specific components, features, or configurations.

User response: Edit the response file to correct the reported error. The DB2 Setup wizard can be used to create a valid response file for future use. If you have an existing installation, the response file generator can be used to create a response file.

DBI20074E The command cannot be run due to insufficient authority to use the specified keyword. Keyword: keyword-name.

Explanation: Administrative or root authority is required to use the specified keyword when performing a response file installation.

User response: Retry installation with a user that has sufficient authority, or without the problematic keyword. Contact the system administrator if you require the response file installation to run with the keyword.

DBI20075E The DB2 installer failed to configure the IBM Secure Shell Server for Windows service to start automatically because the default port is in use. Default port number: port_number.

Explanation: The installation cannot configure IBM Secure Shell Server to automatically start on this port.

User response: Select a different port to manually install the service, stop the service currently running on the port before starting the IBM Secure Shell Server.

DBI20076E The directory specified for the IBM Secure Shell Server cannot be used.

Explanation: The IBM Secure Shell Server installation directory cannot be the same as a DB2 installation directory.

User response: Specify a directory different from a DB2 installation directory.

DBI20077E Updating the IBM Secure Shell Server for Windows failed during a fix pack installation.

Explanation: The DB2 installer detected an error with the version of the IBM Secure Shell Server binaries. The fix pack installation cannot continue.

User response: Ensure that the IBM Secure Shell Server files already installed in the system are not at a higher level than the fix pack image.

DBI20078W Because no value was specified for the response file keyword AUTOSTART_SSH_SERVER, the DB2 installer attempted to configure the IBM Secure Shell (SSH) Server for Windows service to start automatically on the default port. Default port number: port-number. However, that configuration failed because the default port is already in use. The service for IBM SSH Server will need to be started manually.

Explanation: An error occurred during the uninstallation of the IBM Secure Shell Server. IBM Secure Shell Server was not uninstalled.

User response: Login as an administrator user and manually remove the IBM Secure Shell Server.
**DBI20079E**  Removal of the IBM Secure Shell Server for Windows failed during the DB2 uninstall process.

**Explanation:** An error occurred during the uninstallation of the IBM Secure Shell Server. IBM Secure Shell Server was not uninstalled.

**User response:** Login as an administrator user and manually remove the IBM Secure Shell Server.

**DBI20080E**  During uninstall, the DB2 installer detected that both a 32-bit version and a 64-bit version of the IBM Data Server Driver Package (DSDRIVER) are installed. 32-bit and 64-bit versions of the DSDRIVER product cannot coexist.

**Explanation:** A 32-bit and 64-bit version of a DB2 product cannot coexist on a host machine.

**User response:** Uninstall the conflicting product before attempting to reinstall. You must manually uninstall one of the DSDRIVER products using the db2unins command. For db2unins command details, see the DB2 Information Center.

**DBI20081E**  There is not enough free disk space in `directory_name`. Free space detected in `directory_name` is `space_available`, while space needed is `space_needed`. Free up additional space and try again.

**Explanation:** There is not enough free space available.

**User response:** Free more disk space and retry the command.

**DBI20082E**  The DB2 installer cannot create necessary database manager instance files because the DB2 installer does not have write permission for the specified shared disk partition device path. **Specified shared disk partition device path:** `shared-disk-path`.

**Explanation:** In a pureScale environment, a shared disk path is required to hold shared instance and database files. When a DB2 database manager instance is created by using the db2icrt command, the shared disk path is specified by using the `-instance_shared_dev` parameter.

This message is returned when the DB2 installer does not have write permission for the specified shared disk path.

**User response:** Respond to this message in one of the following ways:
- Modify the permissions of the directory that is to be the specified shared disk path so that the DB2 database installer has write access to the path.
- Call the db2icrt command again, specifying a shared disk path with the `-instance_shared_dev` parameter for which the DB2 installer has write access.

**DBI20083E**  The DB2 pureScale instance could not be created because the DB2 installer found more than one uDAPL configuration file.

**Explanation:** The user Direct Access Programming Library (uDAPL) configuration file, `dat.conf`, is referenced by the DB2 pureScale Feature to verify the presence of a remote direct memory access (RDMA) capable network adapter. Exactly one copy of the file must be accessible under the appropriate subdirectory of `/etc`.

This message is returned when the DB2 installer found more than one of these uDAPL configuration files. If multiple uDAPL configuration files exist, the DB2 installer cannot determine which set of configurations to use.

**User response:** Verify the uDAPL configuration manually, including verifying that only one copy of the `dat.conf` file exists on the system, and then run the instance creation operation again.

**DBI20084E**  The domain that was specified for the DB2 administrators group is not the same as the domain that was specified for the DB2 users group.

**Explanation:** Two Windows groups are used by the DB2 database manager to enforce extended Windows security: the DB2 administrators group, which is named "DB2ADMINS" by default; and the DB2 users group, which is named "DB2USERS" by default. These groups are used by the DB2 database manager to provide protection at the operating system level.

The DB2 administrators group and the DB2 users group may both be local groups or they may both be domain groups. If the DB2 administrators group and the DB2 users group are domain groups, they must be in the same domain as each other.

**User response:** Specify the same domain for both the DB2 administrators group and the DB2 users group.

**DBI20085E**  The instance update operation for the instance named `instance-name` failed because some resources for other instances were not completely removed during previous instance drop operations.

**Explanation:** You can update a DB2 database manager instance to a higher level within a release, update an instance other than a DB2 pureScale instance to a DB2 pureScale instance, or scale a DB2 pureScale instance by using the db2iupdt command.
This message is returned when an attempt is made to perform an instance update operation on a given instance, but the update operation cannot proceed because there is a conflict with resources that were not completely removed during a previous attempt to drop one or more instances.

**User response:**
1. Identify any entries in the global registry that were associated with instances that no longer exist.
2. Remove any entries in the global registry that were associated with instances that no longer exist by using the db2greg command.
3. Run the db2iupdtd command again.

**Explanation:** You can update a DB2 database manager instance to a higher level within a release, update an instance other than a DB2 pureScale instance to a DB2 pureScale instance, or scale a DB2 pureScale instance by using the db2iupdt command.

This message can be returned in two scenarios:
- The db2iupdt command is called with the -update parameter and a cluster caching facility (CF) that is not part of the DB2 cluster is specified with the -cf parameter.
- The db2iupdt command is called with the -update parameter and a DB2 member that is not part of the DB2 cluster is specified with the -m parameter.

**User response:** Respond to this error in one of the following ways:
- To update an existing CF in the DB2 cluster, call the db2iupdt command again specifying a CF that is present in the DB2 cluster.
- To add a new CF to the DB2 cluster, call the db2iupdt command again specifying the -add and -cf parameters.
- To update an existing member in the DB2 cluster, call the db2iupdt command again specifying a member that is present in the DB2 cluster.
- To add a new member to the DB2 cluster, call the db2iupdt command again specifying the -add and -m parameters.

**Explanation:** The db2dsdriver.cfg file was not moved to the destination directory. The following directory is not accessible:
- On Windows XP Professional and Windows Server 2003 the path is: 

<table>
<thead>
<tr>
<th>DBI20090W</th>
<th>The DB2 installer detected that the db2ssh directory is world writable.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>In DB2 Version 10.1 Fix Pack 2 and later fix packs, if you are using a DB2 managed GPFS file system for new DB2 pureScale installations, you can use the non-root user ID (db2sshid) to use a secure shell (SSH) network protocol between hosts instead of using passwordless remote root login. There are several DB2 SSH utilities located in the db2ssh directory to support using the db2sshid.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Run the install operation again.</td>
</tr>
</tbody>
</table>
permissions of the db2ssh directory should allow only root users write access to the directory.

User response: Modify the access permissions for the db2ssh directory so that only root users may access those directories.

DBI20091W The DB2 installer failed to change the ownership of the db2locssh script to the db2sshid. The ownership of the db2locssh script has been set to the instance owner ID.

Explanation: In DB2 Version 10.1 Fix Pack 2 and later fix packs, if you are using a DB2 managed GPFS file system for new DB2 pureScale installations, you can use the non-root user ID (db2sshid) to use a secure shell (SSH) network protocol between hosts instead of using passwordless remote root login.

One of the DB2 utilities that supports using the db2sshid is the db2locssh script. During install, the DB2 installer attempts to use operating system commands to set the owner of the db2locssh script to the db2sshid.

However, if the installer is unable to set the owner of the db2locssh script to the db2sshid the installer will set the owner of the db2locssh script to the current instance owner ID.

This message is returned when the DB2 installer sets the owner of the db2locssh script to the current instance owner ID because the installer failed to set the owner of the db2locssh script to the db2sshid.

User response: Manually change the ownership of the db2locssh script to the db2sshid.

DBI20092W The DB2 installer detected a problem with the db2locssh utility that will prevent the use of the db2sshid.

Explanation: In DB2 Version 10.1 Fix Pack 2 and later fix packs, if you are using a DB2 managed GPFS file system for new DB2 pureScale installations, you can use the non-root user ID (db2sshid) to use a secure shell (SSH) network protocol between hosts instead of using passwordless remote root login.

One of the DB2 utilities that supports using the db2sshid is the db2locssh script. During install, the DB2 installer verifies that the db2locssh script is functioning correctly.

This message is returned when the DB2 installer is unable to successfully verify the db2locssh functionality.

User response: Manually set up the db2sshid user ID.

DBI20093E The DB2 installer failed to set up the db2sshid because the GPFS file system is a user-managed file system.

Explanation: In DB2 Version 10.1 Fix Pack 2 and later fix packs, if you are using a DB2 managed GPFS file system for new DB2 pureScale installations, you can use the non-root user ID (db2sshid) to use a secure shell (SSH) network protocol between hosts instead of using passwordless remote root login. Using the db2sshid is not supported with user-managed GPFS file systems.

This message is returned when an attempt is made to enable the db2sshid with a user-managed GPFS file system.

User response: Change the user-managed GPFS file system to be a DB2 managed GPFS file system.

DBI20094E The db2icrt command failed because the specified db2sshid does not exist on all hosts in the DB2 cluster. Specified db2sshid: specified-id.

Explanation: In DB2 Version 10.1 Fix Pack 2 and later fix packs, if you are using a DB2 managed GPFS file system for new DB2 pureScale installations, you can use the non-root user ID (db2sshid) to use a secure shell (SSH) network protocol between hosts instead of using passwordless remote root login. To use the db2sshid, you need to create a user id on all hosts in the DB2 cluster, including the installation-initiating host, and then pass that user id to the db2icrt command with the -i parameter.

This message is returned when an attempt is made to specify a user id as a db2sshid but the specified user id does not exist on all hosts in the cluster.

User response: Call the db2icrt command again, specifying a user id that exists on all hosts in the DB2 cluster.

DBI20095E The distribution of the SSH public key failed because communication failed between two or more of the hosts in the DB2 cluster.

Explanation: In DB2 Version 10.1 Fix Pack 2 and later fix packs, if you are using a DB2 managed GPFS file system for new DB2 pureScale installations, you can use the non-root user ID (db2sshid) to use a secure shell (SSH) network protocol between hosts instead of using passwordless remote root login. For the db2sshid to be used, a public key must be distributed to all hosts in the DB2 cluster.

This message is returned what the DB2 installer fails to distribute the public key to all of the hosts in the cluster during an upgrade or update operation.

User response: Manually distribute the public key of individual hosts to all hosts in the cluster.
The SSH configuration failed for the instance named *instance-name* on the following hosts in the cluster:
*host-name-list*.

**Explanation:** In DB2 Version 10.1 Fix Pack 2 and later fix packs, if you are using a DB2 managed GPFS file system for new DB2 pureScale installations, you can use the non-root user ID (db2sshid) to use a secure shell (SSH) network protocol between hosts instead of using passwordless remote root login. For the db2sshid to be used, a public key must be distributed to all hosts in the DB2 cluster.

This message is returned what the DB2 installer fails to create the public key during instance creation or or update operation.

**User response:** Manually distribute the public key of individual hosts to all hosts in the cluster.

The SSH configuration failed for the db2sshid **user-id** on the following hosts in the cluster: *host-name-list*.

**Explanation:** In DB2 Version 10.1 Fix Pack 2 and later fix packs, if you are using a DB2 managed GPFS file system for new DB2 pureScale installations, you can use the non-root user ID (db2sshid) to use a secure shell (SSH) network protocol between hosts instead of using passwordless remote root login. For the db2sshid to be used, a public key must be distributed to all hosts in the DB2 cluster.

This message is returned what the DB2 installer fails to create the public key during instance creation or or update operation.

**User response:** Manually distribute the public key of individual hosts to all hosts in the cluster.

The db2iupdt -add -m command failed to add a member because the CF is running on the host to be added.

**Explanation:** In an existing DB2 pureScale cluster, if the cluster caching facility (CF) is running, a member cannot be added to the CF host. Before a member can be added, the CF must be stopped using the db2stop command.

**User response:** On the host where you are adding the member, stop that CF using the db2stop command indicating the CF identifier.

The db2unins command failed because the command was run from an installed copy of DB2 database product and the -f parameter, which can only be used when the command is run from the installation media, was specified.

**Explanation:** You can uninstall one or more DB2 database products, features, or languages by using the db2unins utility.

You can run the db2unins command either from the installed copy of DB2 database or from the DB2 database installation media:

- Some db2unins parameters are only supported when the command is run from an installed copy of DB2 database.
- Some db2unins command parameters are only supported when the command is run from the installation media.

You can perform a forced uninstallation of all DB2 database products on the system by specifying the -f parameter with the db2unins command. The -f parameter is one of the parameters that can only be used when the db2unins command is run from the installation media.

This message is returned when the command is run from an installed copy of DB2 database and the -f parameter is specified. The command fails because the -f parameter cannot be specified when the command is run from an installed copy of DB2 database.

**User response:** Respond to this error in one of the following ways:

- To perform a forced uninstallation of all DB2 database products on the system, run the db2unins command from the installation media, specifying the -f parameter.
- To use the db2unins command from the installed copy of DB2 database, call the db2unins command again without specifying the -f parameter.

The upgrade operation failed because upgrading the IBM Data Server Driver Package software from the current version to the new version is not supported. IBM Data Server Driver Package copy name: *copy-name*. Current version: *version-number*. New version: *version-number*.

**Explanation:** The IBM Data Server Driver Package software simplifies application deployment. This driver, which has a small footprint, is designed to be used by independent software vendors (ISVs) for mass application deployment scenarios that are typical of large enterprises.

This message is returned when an attempt is made to upgrade the version of the IBM Data Server Driver Package software, and updating from the current version to the new version is not supported.

**User response:** Respond to this error in one of the following ways:

- Install a new copy of the IBM Data Server Driver Package software.
- Upgrade to DB2 Version 9.7, and then upgrade from DB2 Version 9.7 to the latest release.
- Uninstall the current IBM Data Server Driver Package software and then install the new IBM Data Server Driver Package software.


**Explanation:** The IBM Database Add-Ins for Visual Studio software is a collection of features that integrate seamlessly into your Visual Studio development environment so that you can work with DB2 servers and develop DB2 database objects.

This message is returned when an attempt is made to upgrade IBM Database Add-Ins for Visual Studio, and updating from the current version to the new version is not supported.

**User response:** Uninstall the current IBM Database Add-Ins for Visual Studio software and then install the new IBM Database Add-Ins for Visual Studio software.

**DBI20102E** The upgrade operation has halted and cannot proceed further because upgrading the IBM Data Server Driver Package software from the current version to the new version is not supported. IBM Data Server Driver Package copy name: copy-name. Current version: version-number. New version: version-number.

**Explanation:** The IBM Data Server Driver Package software simplifies application deployment. This driver, which has a small footprint, is designed to be used by independent software vendors (ISVs) for mass application deployment scenarios that are typical of large enterprises.

This message is returned when an attempt is made to upgrade the version of the IBM Data Server Driver Package software, and updating from the current version to the new version is not supported.

**User response:** Respond to this error in one of the following ways:
- Install a new copy of the IBM Data Server Driver Package software.
- Upgrade to DB2 Version 9.7, and then upgrade from DB2 Version 9.7 to the latest release.
- Uninstall the current IBM Data Server Driver Package software and then install the new IBM Data Server Driver Package software.

**DBI20103E** The upgrade operation has halted and cannot proceed further because upgrading the IBM Database Add-Ins for Visual Studio software from the current version to the new version is not supported. Product name: product-name. Current version: version-number. New version: version-number.

**Explanation:** The IBM Database Add-Ins for Visual Studio software is a collection of features that integrate seamlessly into your Visual Studio development environment so that you can work with DB2 servers and develop DB2 database objects.

This message is returned when an attempt is made to upgrade IBM Database Add-Ins for Visual Studio, and updating from the current version to the new version is not supported.

**User response:** Uninstall the current IBM Database Add-Ins for Visual Studio software and then install the new IBM Database Add-Ins for Visual Studio software.

**DBI20104E** The installFixPack command failed because invalid or conflicting parameters were specified.

**Explanation:** You can update installed DB2 database products to apply a fix pack by using the installFixPack command.

This message is returned when there is a problem with one or more of the specified command parameters, including the following example problems:
- A parameter was specified that is not supported with the installFixPack command
- A parameter was specified that is not valid for the operating environment or for the type of DB2 instance
- Conflicting parameters, parameters that are not supported together, were specified

**User response:**
1. Review the installFixPack command syntax in the documentation or by running the following command:
   
   `installFixPack -h`

2. Call the installFixPack command again, specifying only valid parameters.

**DBI20105E** An error occurred while installing the following file set: file-package-name. Because these files were not successfully installed, functionality that depends on these files might not work as expected.

**Explanation:** The DB2 installer installs files related to DB2 database functionality as well as files for software that is bundled with the DB2 database software.

This message is returned when the DB2 installer...
DBI20106E  DBI20110W

encounters a problem copying some files from the install media to the install location.

User response:  Contact IBM Software Support for assistance.

DBI20106E  Installation of the DB2 database product was not performed. The installer package DB2Server.msi cannot be invoked directly. The DB2 database product must be installed by using the setup command.

Explanation:  On Windows operating systems, you can launch the DB2 Setup wizard to install DB2 database products. You can perform a response file installation by specifying the -u parameter with the setup command.

This message is returned when an attempt is made to use the DB2Server.msi installation package directly, which is not supported.

User response:  Run the setup command.

DBI20107E  The db2_deinstall command failed because the DB2 installer detected that the current host is a member of a GPFS cluster that includes other, remote host machines.

Explanation:  You can remove DB2 database products or DB2 database components using the db2_deinstall command.

This message is returned when an attempt is made to uninstall DB2 database where the current host is part of an IBM General Parallel File System (GPFS) cluster that includes remote hosts.

User response:  Manually remove the GPFS cluster and file system, and then run the db2_deinstall command again.

DBI20108W  Validation of the RSCT peer domain failed. However, the validation failure is being ignored and the add member operation will proceed.

Explanation:  When a new DB2 member is being added to a DB2 pureScale instance, it is DB2 install and configuration utilities that add the new member. To accomplish the add member operation, the DB2 install utility performs many tasks.

This warning message is printed when the DB2 install utility detects a problem with the RSCT peer domain while the utility is processing an add member request. (The problem with the RSCT peer domain configuration could have been caused by an error during a previous add member operation, for example.)

This warning message is printed when the failure does not cause the current add member operation to fail. This warning is printed for your information only.

User response:  Unless the DB2 install utility encounters other errors while processing the add member request, no response is required to this warning message.

DBI20110W  The DB2 install utility encountered an internal error while processing an add member operation. However, the validation failure is being ignored and the add member operation will be retried automatically.

Explanation:  When a new DB2 member is being added to a DB2 pureScale instance, it is DB2 install and configuration utilities that add the new member. To accomplish the add member operation, the DB2 install utility performs many tasks.

This warning message is printed when the DB2 install utility encounters a recoverable error while processing an add member request. (The problem could have been caused by an error during a previous add member operation, for example.)

This warning message is printed when the failure does not cause the current add member operation to fail. This warning is printed for your information only.

User response:  Unless the DB2 install utility encounters other errors while processing the add member operation to fail. This warning is printed for your information only.
member operation, no response is required to this warning message.

DBI20111E The installation operation failed because one of the following invalid keywords was specified in the response file:
ADVANCED_ENTERPRISE_SERVER_EDITION,
ENTERPRISE_SERVER_EDITION, or
WORKGROUP_SERVER_EDITION.

Explanation: You can install DB2 database software without any user interaction by using a response file.

A response file is an English-only text file that contains setup and configuration information in the form of keywords and keyword-value pairs.

This message is returned when an attempt is made to perform an installation operation with a response file that includes an invalid keyword.

User response: In your response file, replace instances of the following keywords with the keyword DB2_SERVER_EDITION:
• ADVANCED_ENTERPRISE_SERVER_EDITION
• ENTERPRISE_SERVER_EDITION
• WORKGROUP_SERVER_EDITION
Part 13. DBT Messages
Chapter 87. DBT1000 - DBT1499

DBT1000I The tool completed successfully.
Explanation: The tool's processing completed without any errors.
User response: No further action is required.

DBT1001N The syntax of the DB2INIDB tool is incorrect.
Explanation: The DB2INIDB tool has the following syntax:

```
  db2inidb <database_alias>  
   AS <SNAPSHOT | STANDBY | MIRROR> 
   [RELOCATE USING config_file]
```

User response: Resubmit the command using the correct syntax.

DBT1002N Database name database-name is invalid.
Explanation: The database name specified in the command is not valid. The database name must contain 1 to 8 characters and all of the characters must be from the database manager base character set.
User response: Resubmit the command using a valid database name.

DBT1003N Unable to find program program-name.
Explanation: An attempt to execute the specified program failed because it could not be found.
User response: Ensure that the specified program exists and verify that the program's path exists in the PATH environment variable. Correct the problem and resubmit the command.

DBT1004N Unable to execute program program-name.
Explanation: An error occurred while attempting to execute the specified program.
User response: Ensure that the specified program exists and that it contains the appropriate file permissions. Correct the problem and resubmit the command.

DBT1005N The file file-name1 could not be copied to file-name2.
Explanation: An error occurred when attempting to duplicate the specified file. The command could not be processed successfully.
User response: Ensure that the specified source file exists and that it contains the appropriate file permissions, and ensure that the specified target file does not already exist. Correct the problem and resubmit the command.

DBT1006N The file-device-name file or device could not be opened.
Explanation: An error occurred during an attempt to open the specified file or device.
User response:
1. Ensure that the file or device exists and that its permissions are correct.
2. Reissue the command.

DBT1007N An error occurred during an attempt to perform the operation-name operation on the file-device-name file or device.
Explanation: An attempt to perform the specified operation on the specified file or device was unsuccessful.
User response:
1. Correct the problem. Possible solutions include increasing the disk space or correcting the file permissions.
2. Reissue the command.
3. If the problem persists, contact your technical service representative.

DBT1008N Database database-name is not a split mirror image.
Explanation: An attempt was made to use the DB2INIDB tool on a database that is not a split mirror image.

A split mirror image is a mirrored copy of a database that is taken while I/O writes are suspended. I/O writes can be suspended using the following command while being connected to the database:

```
  SET WRITE SUSPEND FOR DATABASE
```

Once the split mirror image has been taken, I/O writes on the primary database can be resumed with the following command:

```
  SET WRITE RESUME FOR DATABASE
```

Before the split mirror image can be used, the DB2INIDB tool must be run in order to remove its suspended state and initialize it by either performing crash recovery or placing it in rollforward pending state.
User response: Resubmit the command using a split mirror image database.

**Explanation:** An attempt was made to use the STANDBY or MIRROR option of the DB2INIDB tool with a non-recoverable split mirror image database. The STANDBY and MIRROR options require the split mirror image to be recoverable.

A split mirror image is a mirrored copy of a database that is taken while I/O writes are suspended. I/O writes can be suspended using the following command while being connected to the database:

- `SET WRITE SUSPEND FOR DATABASE`

Once the split mirror image has been taken, I/O writes on the primary database can be resumed with the following command:

- `SET WRITE RESUME FOR DATABASE`

Before the split mirror image can be used, the DB2INIDB tool must be run in order to remove its suspended state and initialize it by either performing crash recovery or placing it in rollforward pending state.

The purpose of the STANDBY and MIRROR options are to place the split mirror image in rollforward pending state to permit logs from the primary database to be applied. The primary database must retain the log records for them to be available to the split mirror image database.

User response: Resubmit the command using a split mirror image of a recoverable database. To enable the database for rollforward recovery, set the database configuration parameter `logarchmeth1` or `logarchmeth2` to a value other than OFF, disconnect all existing applications from the database, and perform an offline backup of the database.

**DBT1010N** The split mirror image database `database-name` has been previously initialized as a snapshot.

**Explanation:** An attempt was made to use the STANDBY or MIRROR option of the DB2INIDB tool on a split mirror image that was previously initialized with the SNAPSHOT option. The STANDBY and MIRROR options can no longer be used to rollforward the log files from the primary database because the SNAPSHOT option caused this split mirror image to start a new log chain.

A split mirror image is a mirrored copy of a database that is taken while I/O writes are suspended. I/O writes can be suspended using the following command while being connected to the database:

- `SET WRITE SUSPEND FOR DATABASE`

Once the split mirror image has been taken, I/O writes on the primary database can be resumed with the following command:

- `SET WRITE RESUME FOR DATABASE`

Before the split mirror image can be used, the DB2INIDB tool must be run in order to remove its suspended state and initialize it by either performing crash recovery or placing it in rollforward pending state.

User response: Resubmit the command with a new split mirror image database.

**DBT1011N** Unable to restart database `database-name` with the WRITE RESUME option. SQLCODE = `sqlcode`.

**Explanation:** An attempt to restart the specified database with the WRITE RESUME option failed.

User response: Verify the specified SQLCODE, correct the problem and resubmit the command.

**DBT1012N** Unable to perform operation `operation-name` on the database directory.

**Explanation:** An attempt to perform the specified operation on the database directory was unsuccessful.

Possible reasons include:

- The database manager could not process the request due to an insufficient amount of memory in the system.
- No database entries were found in the system database directory.
- The database does not exist in the system database directory.

User response: Possible solutions include:

- Ensure that there are sufficient system resources available.
- Ensure that the database is cataloged correctly.

Correct the problem and resubmit the command.

**DBT1013N** The database `database-name` could not be found.

**Explanation:** The specified database is not an existing database or the database could not be found in the local or system database directories.

User response: Ensure that the specified database name exists in the system database directory. If the database name does not exist in the system database directory, then the database either does not exist or the database name has not been cataloged.

If the database name appears in the system database
directory and the entry type is INDIRECT, ensure that the database exists in the specified local database directory.

---

**DBT1014N** The instance name could not be determined.

**Explanation:** An attempt to determine the current instance name was unsuccessful.

**User response:** Ensure that the DB2INSTANCE environment variable is set to the current instance name. Correct the problem and resubmit the command.

---

**DBT1015N** Unable to allocate memory.

**Explanation:** During processing, there was not enough memory to continue processing.

**User response:** Possible solutions include:
- Ensure that your system has sufficient real and virtual memory.
- Remove background processes.

---

**DBT1016N** Table space files `file-name1` and `file-name2` are different sizes.

**Explanation:** The two specified table space files have a different size even though they are supposed to be identical.

**User response:** Contact your technical service representative with the following information:
- Problem description
- Contents of the table space catalog table
- Table space files

---

**DBT1017N** The syntax of the DB2RELOCATEDB tool is incorrect.

**Explanation:** The DB2RELOCATEDB tool has the following syntax:
```
db2relocatedb -f <config_file>
```

Where `<config_file>` is the name of file containing configuration information.

File format is:
```plaintext
DB_NAME=oldName,newName
DB_PATH=oldPath,newPath
INSTANCE=oldInst,newInst
DBPARTITIONNUM=dbPartitionNumber
LOG_DIR=oldDirPath,newDirPath
CONT_PATH=oldContPath1,newContPath1
CONT_PATH=oldContPath2,newContPath2
MIRRORLOG_PATH=oldDirPath
FAILARCHIVE_PATH=oldDirPath
LOGARCHMETH1=newDirPath
LOGARCHMETH2=newDirPath
OVERFLOWLOG_PATH=newDirPath
...
```

**Notes:**
- Database name, database path, and instance name are all required fields. If one of these fields is not changing then it is not necessary to list the old and new value for it, just give the old/current one.
- If you have settings for any of the following database configuration parameters, you can specify the corresponding keyword in the configuration file:
  - mirrorlogpath
  - failarchpath
  - logarchmeth1
  - logarchmeth2
  - overflowlogpath
- Blank lines or lines beginning with a comment character (#) will be ignored.

**User response:** Resubmit the command using the correct syntax.

---

**DBT1018N** `field-name` is a required field in the configuration file.

**Explanation:** The specified field is a required field and does not exist in the configuration file.

**User response:** Add the specified field information to the configuration file and then resubmit the command.

---

**DBT1019N** Invalid database path specified in the configuration file.

**Explanation:** The specified database path in the configuration file is invalid.

On Windows, the database path must include the drive letter followed by a colon character. On other platforms, the database path must be absolute and end with a path separator.

**User response:** Correct the erroneous database path and resubmit the command.

---

**DBT1020N** The configuration file contains an invalid entry at line line-number. Reason code = reason-code.

**Explanation:** You cannot relocate with the DB2RELOCATEDB tool until the following condition indicated by the reason code is resolved:

1. The specified line is longer than the maximum number of characters.
2. A field was specified but no values follow it.
3. A field has been specified more than once.
4.
Either the old or new database name contains too many characters.

User response: The action corresponding to the reason code is:

1. Ensure that the specified line contains at most 1000 characters.

Either the old or new database path name contains too many characters.

2. Ensure that the necessary values are specified for the field in question.

Either the old or new instance name contains too many characters.

3. Ensure that the field in question is only specified once.

An invalid node number has been specified in the DBPARTITIONNUM entry.

4. Ensure that the old and new database names contain no more than 8 characters.

Either the old or new log directory path contains too many characters.

5. Ensure that the old and new database path names contain no more than 215 characters.

Either the old or new container name contains too many characters.

6. Ensure that the old and new instance names contain no more than 8 characters.

A duplicate container name in a CONT_PATH entry has been found.

7. Ensure that the node number contains no more than 4 digits.

The specified line is invalid.

8. Ensure that the old and new log directory paths contain no more than 242 characters.

Incorrect usage of the wildcard character (*).

9. Ensure that the old and new storage path names contain no more than 190 characters.

Either the old or the new storage path name contains too many characters.

10. Ensure that each container name is only specified once in a CONT_PATH entry.

A duplicate storage path in a STORAGE_PATH entry has been found.

11. Verify the validity of the line in question.

The new directory indicated for mirrorlogpath has too many characters.

12. The wildcard character must be the last character in both the old and new paths.

The new directory indicated for failarchpath has too many characters.

13. Ensure that the old and new storage path names contain no more than 190 characters.

The new directory indicated for logarchmeth1 has too many characters.

14. Ensure that each storage path name is only specified once in a STORAGE_PATH entry.

The new directory indicated for logarchmeth2 has too many characters.

15. Ensure that each storage path name is only specified once in a STORAGE_PATH entry.

The new directory indicated for overflowlogpath has too many characters.

16. Ensure that each storage path name is only specified once in a STORAGE_PATH entry.
Ensure that the new directory indicated for mirrorlogpath does not exceed the maximum length allowed.

User response: Ensure that the new directory indicated for mirrorlogpath does not exceed the maximum length allowed.

Ensure that the new directory indicated for failarchpath does not exceed the maximum length allowed.

User response: Ensure that the new directory indicated for failarchpath does not exceed the maximum length allowed.

Ensure that the new directory indicated for logarchmeth1 does not exceed the maximum length allowed.

User response: Ensure that the new directory indicated for logarchmeth1 does not exceed the maximum length allowed.

Ensure that the new directory indicated for logarchmeth2 does not exceed the maximum length allowed.

User response: Ensure that the new directory indicated for logarchmeth2 does not exceed the maximum length allowed.

Ensure that the new directory indicated for overflowlogpath does not exceed the maximum length allowed.

User response: Ensure that the new directory indicated for overflowlogpath does not exceed the maximum length allowed.

Correct the problem and resubmit the command.

The total size of all container names is too large.

Explanation: The total space required to store the list of containers exceeds the space allotted for a given table space in the table space file.

User response: Try one or more of the following:
- Use symbolic links, mounted file systems, etc. to shorten the new container names.
- Back up the table space and then use the database administration utility to reduce the number and/or name lengths of the containers. Restore the table space to the new containers.

Correct the problem and resubmit the command.

The DB2RELOCATEDB tool must be run under instance instance-name.

Explanation: An attempt has been made to run the DB2RELOCATEDB tool from an incorrect instance. If the instance is changing then the tool should be run from the new instance.

User response: Resubmit the command using the correct instance.

The database release release-number is invalid.

Explanation: The tool that is being used is from a different release than the database’s current release. The command cannot be processed.

User response: Ensure that the correct version of the tool is being used. Correct the problem and resubmit the command.

Change in database name has resulted in duplicate names in the local database directory.

Explanation: An attempt to rename a database failed because an entry in the local database directory already existed with the same name.

User response: Either change the database name to one that doesn’t already exist or uncatalog the database if it no longer exists. Correct the problem and resubmit the command.

Neither old nor new database name were found in the database directory.

Explanation: An attempt to determine the database token necessary to find the database path failed because neither the old nor new database names could be found in the database directory.

User response: Ensure the database with the old database name exists and that it is cataloged properly. Correct the problem and resubmit the command.

Replacement of the new database path database-path in container name container-name will exceed length restrictions.

Explanation: An attempt to rename the database path failed because it exceeds container name length restrictions when appended to the front of the specified container name.

User response: Rename the database path and/or container name such that they do not exceed length restrictions when appended together. Correct the problem and resubmit the command.

Replacement of the new database path database-path in log directory path log-path will exceed length restrictions.

Explanation: An attempt to rename the database path failed because it exceeds log directory path length restrictions when appended to the front of the specified log directory path.

User response: Rename the database path and/or log directory path such that they do not exceed length restrictions when appended together. Correct the problem and resubmit the command.
**DBT1028N**  Unable to copy table space files.

**Explanation:** An attempt to duplicate the table space file SQLSPCS.1 failed.

**User response:** Ensure there is sufficient disk space for the duplicate table space file. Correct the problem and resubmit the command.

---

**DBT1029N**  Unable to copy buffer pool files.

**Explanation:** An attempt to duplicate the buffer pool file SQLBP.1 failed.

**User response:** Ensure there is sufficient disk space for the duplicate buffer pool file. Correct the problem and resubmit the command.

---

**DBT1030N**  Unable to copy local database directory files.

**Explanation:** An attempt to duplicate the local database directory file failed.

**User response:** Ensure there is sufficient disk space for the necessary duplicate local database directory file. Correct the problem and resubmit the command.

---

**DBT1031N**  An error occurred during an attempt to update the log control files.

**Explanation:** The following log control files exist for each member:

- The SQLOGCTL1.LFH primary log control file
- The SQLOGCTL2.LFH secondary log control file

The following global log control files exist for each database partition:

- The SQLOGCTL.GLFH.1 primary log control file
- The SQLOGCTL2.GLFH.2 secondary log control file

The secondary log control file is a copy of the primary log control file for use in the event that there is a problem with the primary log control file.

This error was returned because the DB2 database manager could not update the primary log control files or the secondary log control files. Two of the possible reasons are as follows:

- The log control files do not exist in the database directory.
- The file permission settings prevent read or write access.

**User response:**

1. Identify why the DB2 database manager could not update the log control files by reviewing the DB2 diagnostic log files.
2. Correct the problem, for example, by taking the following steps:

---

**DBT1032N**  The instance is not currently active.

**Explanation:** The tool requires the instance to be active before it can perform any processing.

**User response:** Issue a db2start before issuing the command.

---

**DBT1033N**  Unable to attach to instance instance-name. SQLCODE = sqlcode.

**Explanation:** An attempt to attach to the specified instance failed.

**User response:** Verify the specified SQLCODE, correct the problem and resubmit the command.

---

**DBT1034N**  Replacement of the string string-one with string-two for container container-name will exceed length restrictions.

**Explanation:** An attempt to rename a container path using wildcards failed because the resulting path length is too long.

**User response:** The maximum length for a container path is 256 characters. Modify the container path to conform to the length restriction and reissue the command.

---

**DBT1035N**  Unable to set the HADR database role to standard for database database-name. SQLCODE = sqlcode.

**Explanation:** An attempt to set the HADR database role to standard failed.

**User response:** Verify the specified SQLCODE, correct the problem and resubmit the command.

---

**DBT1036N**  Unable to refresh the directory cache after a successful relocation of database database-name. SQLCODE = sqlcode.

**Explanation:** An attempt to perform a necessary refresh of the directory cache was unsuccessful.

**User response:** Restart the instance on the current node and rerun the DB2INIDB tool without specifying the RELOCATE USING option. If the problem persists, contact your technical service representative.
DBT1037N CONT_PATH entries cannot be specified for an automatic storage table space.

Explanation: An attempt has been made to relocate container paths for an automatic storage table space.

User response: Remove the CONT_PATH entries that correspond to automatic storage table space. Only STORAGE_PATH entries can be used to relocate automatic storage table space.

DBT1038N A storage group has not been defined for the database.

Explanation: An attempt has been made to relocate storage paths for a database that contains no storage groups.

User response: Remove the STORAGE_PATH entries from the configuration file.

DBT1039N Unable to copy storage group files.

Explanation: An attempt to duplicate the storage group file SQLSGF.1 has failed.

User response: Ensure that there is sufficient disk space for the duplicated storage group file. Correct the problem and resubmit the command.
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DBT2002W Unable to write the end of tape marker.
Reason: reason
Explanation: Writing to the end of tape marker failed.
User response: No further action is required.

DBT2006I db2tapemgr completed successfully.
Explanation: Processing completed without any errors and warnings.
User response: No further action is required.

DBT2007W db2tapemgr completed with warnings.
Explanation: The db2tapemgr command completed without any errors, but warnings.
User response: Refer to the output for more information.

DBT2008N db2tapemgr failed with errors.
Explanation: db2tapemgr completed with errors.
User response: Refer to the output for more information.

Explanation: An unexpected error occurred.
User response: Refer to the reason text for further actions.

DBT2015W Log file log-file-name is not on disk.
Explanation: The log file cannot be found.
User response: If the log file was accidentally deleted, either restore the log file and reissue the command or update the location field for the missing log file in the history file.

DBT2016I No log files found for processing.
Explanation: The history files do not contain information about log files.
User response: No further action is required.

DBT2017N Label label-one is not inserted in the tape drive. The tape inserted in the drive has a label label-two.
Explanation: Two different tapes cannot have the same name.
User response: Confirm that the correct tape is in the tape drive. If the tape is unreadable, use the DELETE TAPE LABEL option to remove the information about this tape from the history file. If an existing tape label was specified, choose another label and reissue the command.

DBT2018N Invalid value value for variable variable.
Explanation: The specified value is invalid.
User response: Specify a valid value.

DBT2019N The tape has not expired. The tape will expire on expiration-date.
Explanation: Unable to write to the tape as the tape has not expired. It is possible that the tape contains log files which may be required for database recovery.
User response: Either reduce the value of DB2_TAPEMGR_TAPE_EXPIRATION or insert a different tape.

DBT2020N Log files on tape are from a different database database-name.
Explanation: The log files on the tape are from a different database.
User response: Insert another tape or specify the FORCE option.

DBT2021N Log files on tape are from a different database instance instance-name.
Explanation: The log files on the tape are from a different database instance.
User response: Insert another tape or specify the FORCE option.

DBT2022N Log files on tape are from a different database partition database-partition.
Explanation: The log files on the tape are from a different database partition.
User response: Insert another tape or specify the FORCE option.

DBT2027N Tape has not been used for storing log files before.
Explanation: The contents of the tape are not recognized as a file which has been written by db2tapemgr.
DBT2032W Only number-of-log-files log files fit on tape.

**Explanation:** The selected number of log files do not fit on tape.

**User response:** To avoid this warning, specify a maximum number of log files to write on tape using the n LOGS option.

DBT2036W Storing history file on tape failed.

**Reason:** reason

**Explanation:** The log files have already been written to tape successfully.

**User response:** If the tape is full, limit the number of log files written to tape using the n LOGS option.

DBT2039I Clearing location in history for log files currently on tape tape-name.

**Explanation:** The location field of the log file entries in the history file are cleared. An empty location field in a log file entry indicates that the log file has been deleted or overwritten and is no longer available for database recovery.

**User response:** No further action is required.

DBT2047N Tape contains log files for database partition number db-partitionnum-1, however database partition number db-partitionnum-2.

**Explanation:** The tape contains logs for a database partition that does not correspond to the database partition specified.

**User response:** Specify the correct database partition number. If no value is specified, the value of DB2NODE is used.

DBT2048I Tape contains log files of database database-name1, however database database-name2 was specified.

**Explanation:** The tape contains log files of another database.

**User response:** Proceed only if you plan on performing a redirected restore operation.

DBT2049I Tape contains log files of instance instance1, however instance instance2 was specified.

**Explanation:** The tape contains log files of another database instance.

**User response:** Proceed only if you plan on performing a redirected restore operation.

DBT2050I The log file log-file is on disk.

**Explanation:** The log file is already on disk and will not be retrieved from tape.

**User response:** To retrieve the log file from tape again, delete the log file on disk and specify the RETRIEVE option. Otherwise, no further action is required.

DBT2051N No matching backup found in the history file.

**Explanation:** The history file does not contain a backup.

**User response:** Specify a different rollforward time and reissue the command. Otherwise, restore the log files manually using the ALL LOGS or LOGS n TO m option.

DBT2052I No required log file found.

**Explanation:** The log files are required for rollforward operation.

**User response:** If the history file is current, no further action is required. Otherwise the history file may not contain all information required for a rollforward operation. If this is the case, restore a history file from the newest tape using the RETRIEVE HISTORY FILE option and reissue the command with the USING HISTORY FILE option.

DBT2053I No required log file on tape.

**Explanation:** The history file does not contain any entries specifying that a log file will need to be retrieved from tape for a rollforward operation.

**User response:** If the history file is current, no further action is required. Otherwise the history file may not contain all information required for a rollforward operation. If this is the case, restore a history file from the newest tape using the RETRIEVE HISTORY FILE option and reissue the command with the USING HISTORY FILE option.

DBT2054I Log files required for backup taken at timestamp timestamp.

**Explanation:** The log files are required for rollforward.

**User response:** If the history file is up-to-date, no further action is required. Otherwise the history file may not contain all information required for a rollforward operation. If this is the case, restore a history file from the most recent tape using the RETRIEVE HISTORY FILE option and reissue the command with the USING HISTORY FILE option.
DBT2055I  No tapes are required for the rollforward operation.

User response: If your history file is up-to-date, no further action is required. Otherwise the history file may not contain all information required for a rollforward operation. If this is the case, restore a history file from the most recent tape using the RETRIEVE HISTORY FILE option and reissue the command with the USING HISTORY FILE option.

DBT2062I  Working on database database-name.

Explanation: The DATABASE option was not specified. The default value controlled by the DB2DBDFT variable is used.

User response: To operate on another database, specify the DATABASE option.

DBT2063N  The DATABASE option is not specified and the DB2DBDFT is not set.

User response: Specify the DATABASE option or set the DB2DBDFT variable.

DBT2065I  Using database partition partition-number.

Explanation: The default value is either 0 or the value of the DB2NODE variable.

User response: to change the database partition, specify the DATABASE option or set the DB2DBDFT variable.

DBT2067N  No directory specified and the database configuration parameter OVERFLOWLOGPATH is not set.

Explanation: Retrieve operations require that a destination directory is set.

User response: Specify the TO option or set the OVERFLOWLOGPATH database configuration parameter.

DBT2068N  The value value of database configuration parameter OVERFLOWLOGPATH is not a directory.

User response: Ensure that the OVERFLOWLOGPATH directory exists.

DBT2069N  Unable to double store to same tape.

Explanation: Choose another tape for your double store operation.

DBT2071I  Using the automatic generated tape-label label.

Explanation: The format of the label is the current time followed by the database alias.

User response: To specify a table label, use the TAPE LABEL option.

DBT2102N  File name filename1 does not match filename2.

Explanation: The file name does not match the expected file name. This may occur if another program has written files to the tape.

User response: No further action is required.

DBT2103N  Directory directory-name does not exist

Explanation: The specified directory does not exist.

User response: Create the specified directory.

DBT2104N  File file-name found.

Explanation: More than one file is found on this tape.

User response: No further action is required.

DBT2106N  Database database-name is remote.

Explanation: The specified database is catalogued as remote database. The db2tapemgr can only be used on local databases.

User response: Login locally and recall tool.

DBT2108N  Database database-name not found in database directory.

Explanation: The specified database is not found in the database directory.

User response: Choose another database name or if the database exists, ensure that the database is catalogued.

DBT2109N  Parameter parameter is expected.

Explanation: The specified parameter is expected.

User response: Reissue the command using the correct syntax.

DBT2110N  Value value of parameter parameter is too long.

Explanation: The specified value for this parameter is too long.

User response: Reissue the command using the correct syntax.
DBT2111N  Parameter blocksize needs to be a multiple of 512.
Explanation: The value of the parameter needs to be a multiple of 512.
User response: Choose a multiple of 512 as blocksize and reissue the command.

DBT2112N  Device device-name is not a tape device.
Explanation: The specified device is not recognized as a tape device.
User response: Specify a recognized tape device name and reissue the command.

DBT2113N  Device device-name is a rewind device.
Explanation: The specified device is not recognized as a non-rewind tape device.
User response: Specify a recognized tape device name like and reissue the command.

DBT2114N  History file history-file does not exist.
Explanation: The specified history file does not exist.
User response: Check the path to the history file and reissue the command.

DBT2115N  History file history-file does not end with value.
Explanation: The specified history file name does not end with db2rhist.asc.
User response: Check the file name of the history file and reissue the command.

DBT2116N  Value value of parameter parameter is not alphanumeric.
Explanation: The value of the parameter needs to be alphanumeric.
User response: Reissue the command using the correct syntax.

DBT2117N  Value value of parameter parameter is out of range.
Explanation: The value of the parameter is out of range.
User response: Reissue the command using the correct syntax.

DBT2118N  Parameter blocksize needs to be a multiple of 512.
Explanation: The specified value for this parameter is too short.
User response: Reissue the command using the correct syntax.

DBT2119N  Value value of parameter parameter is not numeric.
Explanation: The specified value for this parameter is too short.
User response: Reissue the command using the correct syntax.

DBT2120N  No operation is specified.
Explanation: The parameter which specifies the operation is not specified.
User response: Reissue the command with the correct syntax.

DBT2121N  Unknown operation operation is specified.
Explanation: The parameter which specifies the operation is not specified.
User response: Reissue the command using the correct syntax.

DBT2122N  Too many command arguments are specified following the command parameter: parameter.
Explanation: The time format should conform to the following format: YYYY-MM-DD:HH:MM:SS.
User response: Reissue the command using the correct syntax.

DBT2123N  Invalid tape header format.
Explanation: The time format should conform to the following format: YYYY-MM-DD:HH:MM:SS.
User response: Reissue the command using the correct syntax.

DBT2124N  Unable to reduce number of log files.
Explanation: The tape contains other types of files. This may occur if another program has written files to the tape.
User response: No further action is required.

DBT2125N  File file-name1 is not a tape header file. File file-name2 is found.
Explanation: The contents of the tape header are not recognized.
User response: Use the n LOGS option to limit the amount of log files to write on tape and reissue the command.
User response: Attempt to retrieve the log files manually from tape.

**DBT2127N** Changes were made to history file during update.

Explanation: Updating the history file failed because another process has updated the history file.

User response: Reissue the command.

**DBT2128N** The maximum number of open scans has exceeded the limit.

Explanation: Reading the history file failed because too many processes are accessing the history file.

User response: Reissue the command.

**DBT2129W** Fixed damaged history file.

Explanation: A damaged history file has been fixed automatically.

User response: No further action is required.

**DBT2130N** History file cannot be fixed.

Explanation: A damaged history file has been detected and it cannot be fixed.

User response: Restore another version of the history file and reissue command.

**DBT2131N** The number of table spaces has changed in the history file.

Explanation: The contents of the history file has been changed by another process.

User response: Reissue the command.

**DBT2132N** A duplicate timestamp exists within the history file.

Explanation: The history file contains entries with same timestamp.

User response: Restore another version of the history file and reissue command.

**DBT2138N** The history file does not correspond to the current partition.

Explanation: Specify a history file that corresponds to the ON DBPARTITIONNUM parameter that was specified when the utility started. If this parameter was not specified when the utility started, the value of DB2NODE is used.

**DBT2150N** db2relocatedb failed because of the value specified for the keyword keyword in the db2relocatedb configuration file.

Reason code: reason-code.

Explanation: You can use the db2relocatedb command to rename or relocate all or part of a database. The db2relocatedb takes the name of a configuration file as a parameter. In the configuration file, you can specify the configuration of the renamed or relocated database using keyword-value pairs.

For more information about the db2relocatedb command and syntax details, refer to the Command Reference in the DB2 Information Center.

This message is returned when there is a problem with the value specified for the given keyword keyword. The reason code indicates the nature of the problem:

1. The specified directory does not exist.
2. The db2relocatedb utility does not have permission to access the specified directory.
3. A value was specified for keyword keyword but the corresponding database configuration parameter is not set for the database that you are trying to relocate.

User response: Respond to this error according to the reason code:

1. Create the new directory that you want to use and re-issue the db2relocatedb command again.
2. Grant the db2relocatedb utility and the database manager write permission on the new directory and re-issue the db2relocatedb command again.
3. Remove the keyword on the configuration file and re-issue the db2relocatedb command. After the command completes successfully, you can set the database configuration parameter using the UPDATE DATABASE CONFIGURATION command or the db2CfgSet API.

**DBT2200E** This option is not valid. Option: option-name.

Explanation: The specified option is not valid.
**User response:** Specify a valid option and run the command again.
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Chapter 90. DBT3500 - DBT3999

DBT3500E  The db2prereqcheck command failed because the db2prereqcheck utility could not find the XML resource file.

Explanation:  You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

You can define the releases of DB2 database for which you want to verify installation prerequisites in an XML resource file. This message is returned when the db2prereqcheck utility cannot find the specified XML resource file or the default XML resource file.

User response:  Perform one of the following actions:

- Specify the XML resource file using the -f parameter with the db2prereqcheck command.
- If you did not specify the XML resource file using the -f parameter, check to see if the default XML resource file exists in the default installation directory.

DBT3501E  The db2prereqcheck utility could not open the following file: file-name.

Explanation:  You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

This message is returned when the db2prereqcheck utility cannot open a file during normal processing. Because the db2prereqcheck utility runs with the same privileges as the user who ran the db2prereqcheck command, this message can be returned when the user who ran the db2prereqcheck command does not have read and write permission for the named file.

User response:  Respond to this message in one of the following ways:

- Modify the permissions of the named file so that your user id has read and write permission for the file.
- Log in to your system with a user ID that has read and write permission on the file.
- Ask someone who has read and write permission on the file to run the db2prereqcheck command.

DBT3502E  The db2prereqcheck utility failed to verify installation prerequisites because an invalid version of DB2 database was specified in the XML resource file.

Explanation:  You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

You can define the releases of DB2 database for which you want to verify installation prerequisites in an XML resource file. This message is returned when an invalid version of DB2 database is specified in the XML resource file.

User response:  Correct the XML resource file and run the db2prereqcheck command again.

DBT3503E  The db2prereqcheck command failed because an invalid parameter was specified.

Explanation:  You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

This message is returned when an invalid parameter is specified with the db2prereqcheck command.

User response:  
1. Review the db2prereqcheck command syntax.
2. Run the db2prereqcheck command again, specifying valid parameters.

DBT3504E  The db2prereqcheck utility failed to verify installation prerequisites because the utility was unable to determine the level of the operating system.

Explanation:  You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

This message is returned when the db2prereqcheck utility cannot determine the current level of the operating system.

User response:  Perform one of the following actions:

- Review operating systems that are supported with DB2 database and the db2prereqcheck utility.
- Manually retrieve or look up the operating system level.

DBT3505E  The db2prereqcheck utility was unable to determine the Linux distribution level.

Explanation:  You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

This message is returned when the db2prereqcheck utility cannot determine the distribution level of the current Linux operating system. There are several reasons why the utility might be unable to determine the distribution level. For example, the utility might be unable to determine the distribution level if the utility cannot find or read the system file called /etc/issue.

The db2prereqcheck utility cannot perform all of the necessary prerequisite verification steps without knowing the distribution level of the current Linux operating system. In order for the db2prereqcheck utility to perform prerequisite verification, the operating system must have a non-empty /etc/issue file.
utility to be used to verify installation prerequisites for DB2 database, the problem that prevented the utility from determining the distribution level must be resolved.

**User response:** To enable the db2prereqcheck utility to determine the distribution level of the current Linux operating system, perform the following actions:

1. Ensure that the system file called /etc/issue exists.
2. Ensure that the system file called /etc/issue contains distribution level details.
3. Run the db2prereqcheck command as a user who has read permission for the system file called /etc/issue.

**Explanation:** You can verify installation prerequisites for DB2 database using the db2prereqcheck utility. While verifying installation prerequisites for DB2 database, the db2prereqcheck utility uses the Resource Package Manager utility. This message is returned when the db2prereqcheck utility call the rpm command and that rpm command fails.

**User response:**
1. Determine the cause of the rpm failure by reviewing diagnostic information in the db2prereqcheck report file.
2. Resolve the cause of the rpm failure.
3. Call the db2prereqcheck command again.

**DBT3508E** The db2prereqcheck utility encountered an unhandled error.

**Explanation:** You can verify installation prerequisites for DB2 database using the db2prereqcheck utility. This message is returned when the db2prereqcheck utility encounters an error that the utility cannot classify or resolve.

**User response:**
1. Run with db2prereqcheck -o option.

**DBT3509E** The db2prereqcheck utility was unable to determine the version of the following package: package-name.

**Explanation:** You can verify installation prerequisites for DB2 database using the db2prereqcheck utility. This message is returned when the db2prereqcheck utility needs to determine the version of a package to verify installation prerequisites, but the utility cannot determine the version of the package.

**User response:**
1. Review the list of operating systems and software that are supported with DB2 database manually.

**DBT3510E** The db2prereqcheck utility was unable to find the following required library file: library-file-name.

**Explanation:** You can verify installation prerequisites for DB2 database using the db2prereqcheck utility. This message is returned when the db2prereqcheck utility cannot find a library file that is required to verify installation prerequisites.

**User response:** Manually verify that the DB2 database installation prerequisites are met.

**DBT3511E** The db2prereqcheck utility was unable to find the following map file: map-file-name.

**Explanation:** You can verify installation prerequisites for DB2 database using the db2prereqcheck utility. This message is returned when the db2prereqcheck utility cannot find a map file that is required to verify installation prerequisites.

**User response:** Verify manually whether DB2 database installation prerequisites are met.

**DBT3512W** The db2prereqcheck utility failed to determine the currently-installed version of the C++ standard library, libstdc++.

**Explanation:** You can verify installation prerequisites for DB2 database using the db2prereqcheck utility. The current system might meet DB2 database installation prerequisites even if the db2prereqcheck utility cannot determine the version of the C++ standard library that is installed.

**User response:** Manually verify that the system has the required version of C++ standard library.
The db2prereqcheck utility failed to determine the version of the currently-installed C++ standard library, libstdc++, using the ldconfig utility.

**Explanation:** You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

The db2prereqcheck utility uses several different methods for determining the current version of the C++ standard library. This message is returned when the db2prereqcheck utility attempts to determine the version of the currently-install C++ standard library using the ldconfig utility.

The current system might meet DB2 database installation prerequisites even if the db2prereqcheck utility cannot determine the version of the C++ standard library that is installed.

**User response:** Manually verify that the system has the required version of C++ standard library.

The db2prereqcheck utility failed to find the following 32-bit library file: library-file-name.

**Explanation:** You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

This message is returned when the db2prereqcheck utility cannot find the 32-bit version of a required library file. If the named file is missing, 32-bit database applications might not function properly.

**User response:** Respond to this message in one of the following ways:

- Modify the permissions of the named file so that your user id has read and write permission for the file.
- Log in to your system with a user ID that has read and write permission on the file.
- Ask someone who has read and write permission on the file to run the db2prereqcheck command.

The db2prereqcheck utility could not determine the version of the currently-installed C standard library, glibc.

**Explanation:** You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

**User response:** Verify manually whether DB2 database installation prerequisites are met.

The db2prereqcheck utility failed to execute the following command: command.

**Explanation:** You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

This message is returned when the db2prereqcheck utility attempts to execute a command to verify installation prerequisites, but the command fails.

**User response:** Verify manually whether the DB2 database installation prerequisites are met.

The db2prereqcheck utility could not read the following file: file-name.

**Explanation:** You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

This message is returned when the db2prereqcheck utility cannot read a file during normal processing. Because the db2prereqcheck utility runs with the same privileges as the user who ran the db2prereqcheck command, this message can be returned when the user who ran the db2prereqcheck command does not have read and write permission for the named file.

**User response:** Respond to this message in one of the following ways:

- Modify the permissions of the named file so that your user id has read and write permission for the file.
- Log in to your system with a user ID that has read and write permission on the file.
- Ask someone who has read and write permission on the file to run the db2prereqcheck command.

The db2prereqcheck utility was unable to determine the AIX service pack level.

**Explanation:** You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

**User response:** Manually verify that the system has the required AIX service pack level.

The db2prereqcheck utility was unable to determine the AIX Technology Level (TL).

**Explanation:** You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

**User response:** Manually verify that the system has the required AIX Technology Level (TL).

The db2prereqcheck utility could not find the library file libaio.so.1.

**Explanation:** You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

**User response:** Verify manually whether the DB2 database installation prerequisites are met.

The db2prereqcheck utility was unable to determine the version of the library libibmc++.

**Explanation:** You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.
User response: Verify manually whether the DB2 database prerequisites are met.

DBT3522E The db2prereqcheck utility could not find the following patch: patch-identifier.

Explanation: You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

User response: Verify manually whether the DB2 database installation prerequisites are met.

DBT3523E The db2prereqcheck utility could not find the following required HP-UX bundles: bundle-names.

Explanation: You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

User response: Verify manually whether DB2 database installation prerequisites are met.

DBT3524E The db2prereqcheck utility determined that the current Windows operating system is not supported by the version of DB2 database that was specified in the XML resource file.

Explanation: You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

This message is returned when the db2prereqcheck utility determines that the version of the currently-install Windows operating system is not supported by one or more versions of DB2 database that were specified in the db2checkprereq XML resource file.

User response: To install DB2 database, change the Windows operating system to a version that is supported by DB2 database.

DBT3525E The db2prereqcheck command failed because the XML resources file is invalid.

Explanation: You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

You can define the releases of DB2 database for which you want to verify installation prerequisites in an XML resource file. This message is returned when the db2prereqcheck utility cannot process the contents of the specified XML resource file or the default XML resource file.

User response: Correct the contents of the XML resource file and then run the db2prereqcheck command again.

DBT3526E The db2prereqcheck command failed because the value specified with the -o parameter is invalid.

Explanation: You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

The db2prereqcheck utility produces an output, report file that contains a log of the prerequisites checked and the success of the verification. There is a default report file name, but you can also specify the name of the report file using the -o parameter with the db2prereqcheck command.

This message is returned when the value specified with the -o parameter is not valid for a file name. For example, this message can be returned when the value specified with the -o parameter is not in a format that is valid for a file name.

User response: Respond to this message in one of the following ways:

- Run the db2prereqcheck command again, specifying a valid file name with the -o parameter.
- Use the default report file name by running the db2prereqcheck command again, without specifying the -o parameter.

DBT3527E The db2prereqcheck command failed because the value specified with the -v parameter is invalid.

Explanation: You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

You can specify a version of DB2 database using the -v parameter with the db2prereqcheck command.

This message is returned when a value is specified for the -v parameter with the db2prereqcheck command, but the specified value does not match any valid versions of DB2 database defined in the resource XML file.

User response: Call the db2prereqcheck command again, specifying a valid version of DB2 database with the -v parameter.

DBT3528E The db2prereqcheck command failed because the value specified with the -f parameter is invalid.

Explanation: You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

The db2prereqcheck utility reads information about which prerequisites to check from an input XML resource file. There is a default XML resource file name, but you can also specify the name of the XML resource file using the -f parameter with the db2prereqcheck command.

This message is returned when the file specified with the -f parameter is not in valid XML file or its content.
is not in the format recognized by db2prereqcheck tool.

**User response:** Respond to this message in one of the following ways:
- Call the db2prereqcheck command again, specifying a valid XML resource file with the -f parameter.
- Use the default XML resource file by calling the db2prereqcheck command again, without specifying the -f parameter.

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**DBT3529E**  The db2prereqcheck command failed because the mutually exclusive parameters -v and -i were both specified.

**Explanation:** You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

You can specify a version of DB2 database using the -v parameter with the db2prereqcheck command.

If you use an XML resource file that lists one or more versions of DB2 database, you can cause the db2prereqcheck utility to verify the installation prerequisites for only the latest version of DB2 database that is specified in the XML resource file by specifying the -i parameter with the db2prereqcheck command.

The -v parameter and the -i parameter are mutually exclusive.

**User response:** Call the db2prereqcheck command again, specifying either the -v parameter or the -i parameter, but not both.

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**DBT3530E**  The db2prereqcheck command failed because the -i parameter was specified with the command, but the db2prereqcheck utility could not determine the latest DB2 database version that is listed in the XML resource file.

**Explanation:** You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

You can specify a version of DB2 database using the -v parameter with the db2prereqcheck command.

If you use an XML resource file that lists one or more versions of DB2 database, you can cause the db2prereqcheck utility to verify the installation prerequisites for only the latest version of DB2 database that is specified in the XML resource file by specifying the -i parameter with the db2prereqcheck command.

This message is returned when an error occurs while db2prereqcheck is attempting to print information to the report file.

**User response:**
1. Verify that the user has a write permission to the report file.
2. Review the information in the message that could not be printed to the report file, and then consider that information when you review the information that is in the report file.

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**DBT3532E**  The db2prereqcheck utility determined that the DB2 database product that is being installed requires a 64-bit operating environment, but the current environment is a 32-bit environment.

**Explanation:** You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

**User response:** To install this DB2 database product, use a 64-bit operating environment.
The `db2prereqcheck` utility has confirmed that all installation prerequisites were met for DB2 database client-or-server-info feature-info. **Version:** DB2-database-version.

**Explanation:** You can verify installation prerequisites for DB2 database using the `db2prereqcheck` utility.

**User response:** No response is required.

The `db2prereqcheck` utility determined that ASLR is set to ON and that this could cause issues with some tools.

**Explanation:** Address Space Layout Randomization (ASLR) is a feature that is activated by default on some Linux distributions. ASLR is designed to load shared memory objects in random addresses.

DB2 database cannot guarantee the availability of addresses for shared memory objects when ASLR is turned on.

This conflict in the address space means that a process trying to attach a shared memory object to a specific address might not be able to do so, resulting in a failure in the `shmat` subroutine. However, on subsequent retry (using a new process) the shared memory attachment may work. The result is a random set of failures. Some processes that have been known to see this error are: `db2pd`, `db2egcf`, and `db2vend`.

Some of the errors that can result from this problem include the following:

- The `db2pd` command might report no data found even through the instance or database is active.
- The `db2egcf` process, which is used for monitoring, might incorrectly determine the instance is down and initiate a failover operation.
- During backup and log archive operations, the `db2vend` process might fail with an error indicating a child process could not be started.

**User response:** Respond to this error in one of the following ways:

- Turn off the randomization by setting the following kernel parameter:
  
  ```
  kernel.randomize_va_space=0
  ```

- Temporarily disable the randomization and restart the `db2` instance by issuing the following command:
  
  ```
  echo 0 > /proc/sys/kernel/randomize_va_space
  ```

The `db2prereqcheck` utility was unable to find the following InfiniBand support package: `package_name`.

**Explanation:** On Linux operating systems on an InfiniBand network or a 10 Gigabit Ethernet (10GE) network, specific InfiniBand Support packages are required. For a list of required packages, see the DB2 pureScale Feature installation prerequisites for Linux topic.

**User response:** To install the required InfiniBand software, run a group installation of the InfiniBand Support package using the `yum` command.

The `db2prereqcheck` utility was unable to find the following HPN package: `package_name`.

**Explanation:** On Linux operating systems on a 10 Gigabit Ethernet (10GE) network, specific High Performance Networking (HPN) packages are required. For a list of required packages, see the DB2 pureScale Feature installation prerequisites for Linux topic.

**User response:** To install the required HPN packages, run a group installation of the InfiniBand Support package using the `yum` command.

The `db2prereqcheck` utility was unable to find the following RSCT package: `package_name`.

**Explanation:** On Linux operating systems, specific Reliable Scalable Cluster Technology (RSCT) packages are required. For a list of required packages, see the DB2 pureScale Feature installation prerequisites for Linux topic.

**User response:** To install the required RSCT packages, run the `yum install` command for each required package.

The `db2prereqcheck` command failed because the value specified with the `-t` parameter is invalid.

**Explanation:** You can verify installation prerequisites for DB2 database using the `db2prereqcheck` utility.

You can specify the type of network configuration for which the `db2prereqcheck` utility should verify prerequisites using the `-t` parameter. There are four valid values for the `-t` parameter:

- `SINGLE_IB_PORT_CLUSTER`
- `MULTI_IB_PORT_CLUSTER`
- `SINGLE_ROCE_PORT_CLUSTER`
- `MULTI_ROCE_PORT_CLUSTER`

This message is returned when an invalid value is specified for the `-t` parameter.

**User response:** Call the `db2prereqcheck` command again, specifying a valid value with the `-t` parameter.
The db2prereqcheck command failed because the -t parameter was specified but the -p parameter was not specified.

**Explanation:** You can verify installation prerequisites for DB2 database using the db2prereqcheck utility. You can verify installation prerequisites specifically for the DB2 pureScale environment by specifying the -p parameter. If you specify that the db2prereqcheck utility should verify the prerequisites for the DB2 pureScale environment, you can also specify the type of network configuration for which the db2prereqcheck utility should verify prerequisites using the -t parameter.

If you do not specify the -p parameter, the -t parameter must not be specified.

**User response:** Respond to this error in one of the following ways:

- If you are verifying installation prerequisites for a DB2 pureScale environment, call the db2prereqcheck command again, specifying the -p parameter with or without the -t parameter.
- If you are not verifying installation prerequisites for a DB2 pureScale environment, call the db2prereqcheck command again without specifying the -t parameter.

The db2prereqcheck command failed because the db2prereqcheck command is not supported on the current operating system level.

**Explanation:** You can verify installation prerequisites for DB2 database using the db2prereqcheck utility. The db2prereqcheck utility requires the following minimum operating system levels:

- AIX 6.1
- HP-UX 11iv3
- Solaris 10

**User response:** Run the db2prereqcheck command on a system with a supported operating system level.

An instance management task failed because the db2prereqcheck utility encountered an internal error.

**Reason code:** reason-code.

**Explanation:** The DB2 database manager performs a variety of system validation steps, including using the db2prereqcheck utility, before installing the DB2 database product and before creating or managing database manager instances.

The reason code indicates a specific reason for the error:

1. The database manager or the db2prereqcheck utility failed to open the file called "/etc/hosts".

2. The database manager or the db2prereqcheck utility failed to determine the IP address of the machine on which the cluster caching facility is located.

**User response:** Respond to this error by performing troubleshooting steps according to the given reason code:

**Reason code 1**

Ensure the system file called "/etc/hosts" exists, is accessible, and that the file contents are standard for a hosts file.

**Reason code 2**

Ensure that the host machines in the DB2 cluster are up and running, and the the network in the cluster is functioning normally.

The db2prereqcheck utility encountered an internal error while printing a message.

**Message number:** message-number.

**Explanation:** You can verify installation prerequisites for DB2 database using the db2prereqcheck utility. This message is returned when the utility encounters an error while printing a message in the current user language.

The failure to print one message might not affect the usefulness of the db2prereqcheck utility. However, if this error happens multiple times, this might indicate a problem with the installation of the db2prereqcheck utility.

**User response:** Respond to this error in one or more of the following ways:
- Run the `db2prereqcheck` utility in English by setting the locale to English and then calling the `db2prereqcheck` command.
- Download a new copy of the `db2prereqcheck` utility.

**DBT3544E** The `db2prereqcheck` utility failed to determine the level of the operating system by using the `uname` command.

**Explanation:** You can verify installation prerequisites for DB2 database using the `db2prereqcheck` utility.

The `db2prereqcheck` utility uses the system command, `uname`, to determine the level of the current operating system. There are multiple reasons that the `db2prereqcheck` utility might be unable to determine the operating system level by using the `uname` command, including the following examples:

- The call to the `uname` system command failed.
- The output of the `uname` system command is not what the `db2prereqcheck` utility was designed to expect.

**User response:** Manually determine the version of the operating system and verify whether the current operating system version is supported with the DB2 database product being installed.

**DBT3545E** The `db2prereqcheck` utility encountered an error while opening an internal, temporary file.

**Explanation:** You can verify installation prerequisites for DB2 database using the `db2prereqcheck` utility.

This message is returned when the `db2prereqcheck` utility fails to open a temporary file while performing the prerequisite verification.

**User response:** Run the `db2prereqcheck` utility again.

**DBT3546E** The `db2prereqcheck` utility failed to determine whether the following file or package exists: `file-or-package-name`.

**Explanation:** You can verify installation prerequisites for DB2 database using the `db2prereqcheck` utility.

The `db2prereqcheck` utility determines details about the current operating environment and system components by using system commands and examining currently installed files. This message is returned when the `db2prereqcheck` utility is unable to perform the prerequisites validation because the utility cannot find the given file or package.

**User response:** Manually verify prerequisites for the DB2 database product.

**DBT3547E** The `db2prereqcheck` utility failed to determine the version of the glibc library by using the `strings` system command to extract information from the glibc library file.

**Explanation:** You can verify installation prerequisites for DB2 database using the `db2prereqcheck` utility.

**User response:** Verify manually whether DB2 database installation prerequisites are met.

**DBT3548E** The `db2prereqcheck` command failed because the `db2prereqcheck` utility failed to open the resource XML file: `resource-XML-file-name`.

**Explanation:** You can verify whether a system meets the prerequisites for DB2 database product releases and fix packs that are defined in a resource XML file. You can cause the `db2prereqcheck` utility to read from a specified resource XML file by using the `-f` parameter with the `db2prereqcheck` command, or you can allow the `db2prereqcheck` utility to use a default resource XML file.

This message is returned when the `db2prereqcheck` utility fails to open the resource XML file, either a file specified with the `-f` parameter, or the default file.

**User response:** Call the `db2prereqcheck` command again, specifying a resource XML file that the `db2prereqcheck` utility can access.

**DBT3549E** The `db2prereqcheck` utility failed to extract an expected string from the output of a system command or the contents of a system configuration file.

**Expected string:** `expected-string`. **Source string:** `source-string`.

**Explanation:** You can verify installation prerequisites for DB2 database using the `db2prereqcheck` utility.

The `db2prereqcheck` utility verifies system details by using system commands and examining various system configuration files. This message is returned when the `db2prereqcheck` utility is unable to extract necessary information from the output of a system command or the contents of a system configuration file.

**User response:** Verify manually whether DB2 database installation prerequisites are met.

**DBT3550E** The `db2prereqcheck` utility failed to determine the package information by using the `lspp` command. **Package label:** `package-label`. **Package identifier:** `package-identifier`.

**Explanation:** You can verify installation prerequisites for DB2 database using the `db2prereqcheck` utility.

The `db2prereqcheck` utility verifies system details by...
using system commands and examining the contents of system configuration files. This message is returned when the db2prereqcheck utility fails to extract the necessary package information from the output of the lslpp command.

User response: Verify manually whether DB2 database installation prerequisites are met.

DBT3551E The db2prereqcheck utility failed to determine the package version by using the lslpp command.

Explanation: You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

The db2prereqcheck utility verifies system details by using system commands and examining the contents of system configuration files. This message is returned when the db2prereqcheck utility fails to extract the necessary package information from the output of the lslpp command.

User response: Verify manually whether DB2 database installation prerequisites are met.

DBT3552E The db2prereqcheck utility failed to open the libaio.so.1 file. Command output: err-output.

Explanation: You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

The db2prereqcheck utility verifies system details by using system commands and examining the contents of system configuration files. This message is returned when the db2prereqcheck utility fails to extract the necessary package information from the output of the lslpp command.

User response: Verify manually whether DB2 database installation prerequisites are met.

DBT3553I The db2prereqcheck utility successfully loaded the libaio.so.1 file.

Explanation: You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

The db2prereqcheck utility verifies system details by using system commands and examining the contents of system configuration files. This message is returned when the db2prereqcheck utility successfully loads a system file.

User response: No user response is required.

DBT3554W The db2prereqcheck utility was unable to find the package for the IOCP on the system.

Explanation: You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

The Input/Output Completion Port (IOCP) is required by the DB2 database server.

User response: To successfully run a DB2 database server, install and configure IOCP manually.

DBT3555E The db2prereqcheck utility determined that the current platform is not supported by the following version of DB2 database: version.

Explanation: You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

User response: No response is required.

DBT3556W The db2prereqcheck utility encountered an internal error while cleaning up temporary resources.

Explanation: You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

User response: No response is required.

DBT3557I The db2prereqcheck utility determined that the current platform is not supported with the DB2 pureScale Feature.

Explanation: You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

User response: No user response is required.

DBT3558E The db2prereqcheck command failed because two or more of the following mutually exclusive parameters were specified: -c, -u, -g, and -p.

Explanation: You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

The -c, -u, -g, and -p parameters are mutually exclusive.

User response: Call the db2prereqcheck command again, specifying only one of the parameters -c, -u, -g, or -p.

DBT3559E The db2prereqcheck command failed because the value specified with the -a parameter is invalid.

Explanation: You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

User response: Call the db2prereqcheck command again, specifying a valid value with the -a parameter.

DBT3560I The db2prereqcheck utility found the following patch: patch-name.

Explanation: You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

User response: No response is required.
DBT3561E The db2prereqcheck utility failed to find the following bundle: bundle-name.

**Explanation:** You can verify installation prerequisites for DB2 database using the db2prereqcheck utility.

**User response:** Manually verify installation prerequisites for DB2 database.

DBT3562E The db2prereqcheck utility failed to determine whether SELinux is enabled.

**Explanation:** You can verify installation prerequisites for DB2 database using the db2prereqcheck utility. Because some requirements, such as General Parallel File System (GPFS), are not compatible with Security-Enhanced Linux (SELinux) enabled, the db2prereqcheck utility attempts to determine whether SELinux is enabled. This message is returned when the db2prereqcheck utility is unable to determine whether SELinux is enabled.

**User response:** Manually verify installation prerequisites for DB2 database.

DBT3563E The db2prereqcheck utility determined that SELinux is enabled, which is not supported with GPFS.

**Explanation:** You can verify installation prerequisites for DB2 database using the db2prereqcheck utility. DB2 database requires a General Parallel File System (GPFS). However, GPFS is not supported with Security-Enhanced Linux (SELinux) enabled.

**User response:** Disable SELinux and then proceed with the DB2 database product installation.

DBT3564E The db2prereqcheck utility was unable to find the package package-name on host host-name.

**Explanation:** You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility. The db2prereqcheck utility determines details about the current operating environment and system components by using system commands and examining currently installed files. This message is returned when the db2prereqcheck utility is unable to perform the prerequisites validation because the utility cannot find the given file or package on the given host machine.

**User response:** Manually verify prerequisites for the DB2 database product.

DBT3565E The db2prereqcheck utility found that remote root login is not enabled on host host-name.

**Explanation:** You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility. In versions of DB2 database earlier than DB2 Version 10.5, passwordless remote root login must be enabled to install DB2 database. This message is returned when passwordless remote root login needs to be enabled but the db2prereqcheck utility determined that passwordless remote root login is not currently enabled on the named host machine.

**User response:** Enable passwordless remote root login on all host machines on which the DB2 database install will be performed, and then perform the installation operation.

DBT3566E The db2prereqcheck utility detected that the service named service-name is not enabled on host host-name.

**Explanation:** You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility. The db2prereqcheck utility attempts to determine whether all system services that are required for successfully installing DB2 database are enabled. This message is returned when the db2prereqcheck utility detects that a required system service is not enabled.

**User response:** Manually verify installation prerequisites for DB2 database.

DBT3567E The db2prereqcheck utility found that passwordless ssh is not enabled from host host-name-1 to host host-name-2.

**Explanation:** You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility. DB2 database requires that passwordless remote root login be enabled during install. However, the db2prereqcheck utility determined that remote root login is not currently enabled between the named host machines.

**User response:** Enable passwordless remote root login on all host machines on which the DB2 database install will be performed, and then perform the installation operation.

DBT3568E The db2prereqcheck utility found that the input/output completion Port (IOPC) is not installed on host host-name.

**Explanation:** You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility. The input/output Completion Port (IOPC) is required by the DB2 database server.

This message is returned when the db2prereqcheck utility detects that no input/output completion ports are installed on the given host machine.

**User response:** Manually install and configure IOPC on the named host machine.
DBT3569E  The db2prereqcheck utility found that the input/output completion Port (IOCP) is not enabled on host host-name.

Explanation: You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility. The input/output Completion Port (IOCP) is required by the DB2 database server. This message is returned when the db2prereqcheck utility detects that no input/output completion ports are enabled on the given host machine.

User response: Manually install and configure IOCP on the named host machine.

---

DBT3570E  The db2prereqcheck utility found that the specified device (device path: path) does not have an associated identifier of type type. Host: host-name.

Explanation: You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility. This message is returned when the db2prereqcheck utility cannot determine either the physical volume identifier (PVID) or the worldwide identifier (WWID) for the specified device path.

User response: Configure an identifier for the specified device and perform the installation operation again.

---

DBT3571E  The db2prereqcheck utility found that the directory directory-name does not have enough free space on host host-name. Required space: space-needed. Actual space present: space-available.

Explanation: You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility. The db2prereqcheck utility verifies many hardware, software, and configuration prerequisites for successfully installing and running DB2 database. This message is returned when the db2prereqcheck utility finds that TCP/IP has been configured incorrectly for the named host machine.

User response: Respond to this message in one of the following ways:

- Allocate more space in the given directory on the given host machine.
- Specify a different directory that has more available space.

---

DBT3572W  The db2prereqcheck utility found that netname net-name is not pingable from host host-name.

Explanation: You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility. The db2prereqcheck utility verifies many hardware, software, and configuration prerequisites for successfully installing and running DB2 database. This message is returned when the db2prereqcheck is unable to successfully use the ping command to test connectivity and network response time from the given host machine to the given cluster interconnect netname.

User response: Configure the network so that the specified netname is accessible on the network from the host machine.

---

DBT3573W  The db2prereqcheck utility found that the /etc/hosts file of host host-name associates the hostname with localhost.

Explanation: You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility. The db2prereqcheck utility verifies many hardware, software, and configuration prerequisites for successfully installing and running DB2 database. This message is returned when the db2prereqcheck finds that TCP/IP has been configured incorrectly for the named host machine.

User response: Configure TCP/IP for the named host machine.

---

DBT3574W  The db2prereqcheck utility found that the /etc/hosts file is missing an entry for the hostname or netname name on host host-name.

Explanation: You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility. The db2prereqcheck utility verifies many hardware, software, and configuration prerequisites for successfully installing and running DB2 database. This message is returned when the db2prereqcheck finds that the /etc/hosts file has not been configured correctly on the named host machine.

User response: Configure the /etc/hosts file on the host machine.

---

DBT3575W  The db2prereqcheck utility found that the /etc/hosts file of host host-name contains duplication of entry duplicate-host-name-entry.

Explanation: You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility. The db2prereqcheck utility verifies many hardware, software, and configuration prerequisites for
DBT3576W  DBT3582E

successfully installing and running DB2 database. This message is returned when the db2prereqcheck utility finds that the /etc/hosts file has not been configured correctly on the named host machine.

User response: Configure the /etc/hosts file on the host machine.

---

DBT3576W  The db2prereqcheck utility found that the /etc/hosts file contains inconsistent entries for hostname or netname name on the following hosts: host-machine-list.

Explanation: You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility. The db2prereqcheck utility verifies many hardware, software, and configuration prerequisites for successfully installing and running DB2 database. This message is returned when the db2prereqcheck utility finds that the /etc/hosts file has not been configured correctly on the named host machine.

User response: Configure the /etc/hosts file on the host machine.

---

DBT3577E  The db2prereqcheck utility found that the library entry library-name is missing in the dat.conf file for netname net-name on host host-name.

Explanation: You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility. The db2prereqcheck utility verifies many hardware, software, and configuration prerequisites for successfully installing and running DB2 database. This message is returned when the db2prereqcheck utility finds that the /etc/hosts file has not been configured correctly on the named host machines.

User response: Configure the /etc/hosts file on the listed host machines.

---

DBT3578E  The db2prereqcheck utility found that the dat.conf file is not configured properly for netname net-name on host host-name.

Explanation: You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility. The db2prereqcheck utility verifies many hardware, software, and configuration prerequisites for successfully installing and running DB2 database. This message is returned when the db2prereqcheck utility finds that the direct access transport file, dat.conf, has not been configured correctly on the named host machine.

User response: In the dat.conf file on the host machine, configure an entry for the netname.

---

DBT3579E  The db2prereqcheck utility detected more than one dat.conf file on host host-name.

Explanation: You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility. The db2prereqcheck utility verifies many hardware, software, and configuration prerequisites for successfully installing and running DB2 database. This message is returned when the db2prereqcheck utility finds that the direct access transport file, dat.conf, has not been configured correctly on the named host machine.

User response: Configure only one dat.conf file on the host machine.

---

DBT3580E  The db2prereqcheck utility was unable to find the dat.conf file on host host-name.

Explanation: You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility. The db2prereqcheck utility verifies many hardware, software, and configuration prerequisites for successfully installing and running DB2 database. This message is returned when the db2prereqcheck utility finds that the direct access transport file, dat.conf, has not been configured correctly on the named host machine.

User response: Configure a dat.conf file on the host machine.

---

DBT3581E  The db2prereqcheck utility found that the specified user user-id is not present in host host-name.

Explanation: You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility. The db2prereqcheck utility verifies many hardware, software, and configuration prerequisites for successfully installing and running DB2 database. This message is returned when the db2prereqcheck utility finds that the direct access transport file, dat.conf, has not been configured correctly on the named host machine.

User response: Create the required user accounts on the host machine.

---

DBT3582E  The db2prereqcheck utility found that the UID of user user-name-1 present on host host-name-1 is not same as the UID of user user-name-2 present on host host-name-2.

Explanation: You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility. The db2prereqcheck utility verifies many hardware, software, and configuration prerequisites for successfully installing and running DB2 database. This message is returned when the db2prereqcheck utility finds that the direct access transport file, dat.conf, has not been configured correctly on the named host machine.

User response: In the dat.conf file on the host machine, configure an entry for the netname.
DBT3583E • DBT3588W

DBT3583E The db2prereqcheck utility found that the GID of user user-name-1 present on host host-name-1 is not same as the GID of user user-name-2 present on host host-name-2.

Explanation: You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility.

The db2prereqcheck utility verifies many hardware, software, and configuration prerequisites for successfully installing and running DB2 database. This message is returned when the db2prereqcheck utility finds that a required user id does not exist on all required host machines.

User response: Create the required user accounts on all host machines.

DBT3584E The db2prereqcheck utility found that either the user account or the group ID for the instance named instance-name is not valid on the following host machine: host-machine-name.

Explanation: You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility.

The db2prereqcheck utility verifies many hardware, software, and configuration prerequisites for successfully installing and running DB2 database. This message is returned when the db2prereqcheck utility finds that a required user id does not exist on all required host machines.

User response: Create the required user accounts on all host machines.

DBT3585E The db2prereqcheck utility was unable to find the following Mellanox package: package-name.

Explanation: You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility.

The db2prereqcheck utility determines details about the current operating environment and system components by using system commands and examining currently installed files. This message is returned when the db2prereqcheck utility finds that a required Mellanox package is not installed on all host machines.

User response: Manually verify prerequisites for the DB2 database product.

DBT3586E The db2prereqcheck utility detected both of the following packages which cannot coexist: the RHEL server High Performance Networking package (HPN) and the Mellanox adapter driver package.

Explanation: You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility.

The db2prereqcheck utility determines details about the current operating environment and system components by using system commands and examining currently installed files. This message is returned when the db2prereqcheck utility finds that two packages are installed that are not supported together.

User response: Remove either the HPN package or the Mellanox package.

DBT3587E The db2prereqcheck utility failed to verify prerequisites on the host machine host-name.

Explanation: You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility.

The db2prereqcheck utility determines details about the current operating environment and system components by using system commands and examining currently installed files. This message is returned when the db2prereqcheck utility is unable to verify the prerequisites.

User response: Manually verify prerequisites for the DB2 database product.

DBT3588W The db2prereqcheck utility was unable to validate the configuration of the log_mtt_per_seg parameter on the following host machine: host-machine-name. Reason code: reason-code.

Explanation: In DB2 pureScale environments, the Mellanox HCA driver mlx4_core parameter named log_mtt_per_seg must be configured in the modprobe configuration file, modprobe.conf, on host machines where any cluster caching facility (CF) resides. If this configuration parameter is not set appropriately, errors could occur when the database manager is started with the db2start command.

This message is returned when the db2prereqcheck utility is unable to validate the setting of log_mtt_per_seg on the given host machine for the reason indicated by the reason code:

1 The db2prereqcheck utility cannot find the file modprobe configuration file on the host machine.
The db2prereqcheck utility cannot find an entry for the log_mtts_per_seg parameter in the modprobe configuration file in the host machine.

User response:
- If there is no CF on the host machine, no user response is required.
- If there is a CF on the host machine, manually verify the configuration of the log_mtts_per_seg parameter.

The db2prereqcheck utility found that the I/O completion ports (IOCPs) on AIX servers is not required for the installation of DB2 for Linux, UNIX, and Windows software. However, this configuration step is recommended for performance purposes.

User response: Optional: Manually configure IOCP.

The db2prereqcheck utility successfully accessed the disk called disk-identifier on the host machine named host-machine-name. However the db2prereqcheck utility failed to verify whether that disk is a part of a SAN.

Explanation: Configuring I/O completion ports (IOCPs) on AIX servers is not required for the installation of DB2 for Linux, UNIX, and Windows software. However, this configuration step is recommended for performance purposes.

User response:
- If you are not using the DB2 pureScale Feature, no response is required.
- If you are using the DB2 pureScale Feature, manually verify whether the disk is a part of a SAN.

The db2prereqcheck utility successfully accessed the disk called disk-identifier on the host machine named host-machine-name. However the db2prereqcheck utility failed to verify whether that disk is a part of a SAN.

Explanation: Configuring I/O completion ports (IOCPs) on AIX servers is not required for the installation of DB2 for Linux, UNIX, and Windows software. However, this configuration step is recommended for performance purposes.

User response:
- If you are not using the DB2 pureScale Feature, no response is required.
- If you are using the DB2 pureScale Feature, manually verify whether the disk is a part of a SAN.

The db2prereqcheck utility found that the log_mtts_per_seg parameter is not set to the recommended value on the following host machine: host-machine-name.

Explanation: In pureScale environments, the Mellanox HCA driver mlx4_core parameter named log_mtts_per_seg must be configured in the modprobe configuration file, modprobe.conf, on host machines where any cluster caching facility (CF) resides.

User response:
- If there is no CF on the host machine, no user response is required.
- If there is a CF on the host machine, manually configure the log_mtts_per_seg parameter to the recommended value.

The db2prereqcheck utility found that the directory directory-name does not have the recommended amount of free space on host host-name. Recommended amount needed: space-needed. Actual space present: space-available.

Explanation: You can verify installation prerequisites for DB2 database by using the db2prereqcheck utility.

User response:
- If there is no CF on the host machine, no user response is required.
- If there is a CF on the host machine, manually verify the configuration of the log_mtts_per_seg parameter in the modprobe configuration file, modprobe.conf, has not been configured correctly on the named host machine.

User response: Manually verify the contents of the dat.conf file on the host machine.
on the given host machine, but that installing the DB2 product could proceed successfully.

Note that although having less than the recommended amount of space on the directory named in the run time token `directory-name` might not prevent installing the DB2 product from succeeding, having less than the recommended amount of space could cause run time performance problems or other errors in the future.

**User response:** [Optional] Respond to this message in one of the following ways:

- Allocate more space in the given directory on the given host machine.
- Specify a different directory that has more available space.
Chapter 91. DBT4000 - DBT4499

<table>
<thead>
<tr>
<th>Code</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBT4000N</td>
<td>No value was specified for the option named option-name.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> You can use the db2fedgentf utility to create or drop table functions that access result sets from federated stored procedures.</td>
</tr>
<tr>
<td></td>
<td>You must specify a value for the named option.</td>
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<tr>
<td></td>
<td>For an explanation of the syntax of the db2fedgentf command, use the following command: &quot;db2fedgentf -h&quot;.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Call the db2fedgentf command again, specifying a value for the named option.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>DBT4001N</td>
<td>Neither &quot;-create&quot; nor &quot;-drop&quot; was specified. It is mandatory to specify one of these options.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> You can use the db2fedgentf utility to create or drop table functions that access result sets from federated stored procedures.</td>
</tr>
<tr>
<td></td>
<td>You must specify exactly one of the &quot;-create&quot; or &quot;-drop&quot; options with the db2fedgentf command.</td>
</tr>
<tr>
<td></td>
<td>For an explanation of the syntax of the db2fedgentf command, use the following command: &quot;db2fedgentf -h&quot;.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Call the db2fedgentf command again, specifying either &quot;-create&quot; or &quot;-drop&quot;.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>DBT4002N</td>
<td>An invalid option was specified: option-name.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> You can use the db2fedgentf utility to create or drop table functions that access result sets from federated stored procedures.</td>
</tr>
<tr>
<td></td>
<td>The given option is not a valid option for the db2fedgentf command.</td>
</tr>
<tr>
<td></td>
<td>For an explanation of the syntax of the db2fedgentf command, use the following command: &quot;db2fedgentf -h&quot;.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Call the db2fedgentf command again, specifying valid options.</td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>DBT4003N</td>
<td>One of the following required options was missing: &quot;-db&quot;, &quot;-u&quot;, or &quot;-p&quot;.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> You can use the db2fedgentf utility to create or drop table functions that access result sets from federated stored procedures.</td>
</tr>
<tr>
<td></td>
<td>When you call the db2fedgentf command, you must specify a database name, a user name, and a password.</td>
</tr>
<tr>
<td></td>
<td>For an explanation of the syntax of the db2fedgentf command, use the following command: &quot;db2fedgentf -h&quot;.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Call the db2fedgentf command again, specifying a database, a user name, and a password.</td>
</tr>
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<td></td>
<td></td>
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<tr>
<td>DBT4004N</td>
<td>One of the following required options was missing: &quot;-stpn&quot; or &quot;-c&quot;.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> You can use the db2fedgentf utility to create or drop table functions that access result sets from federated stored procedures.</td>
</tr>
<tr>
<td></td>
<td>When you call the db2fedgentf command to create a new table function for a given federated stored procedure, you must specify both of the following:</td>
</tr>
<tr>
<td></td>
<td>• The name of the federated stored procedure using the &quot;-stpn&quot; option</td>
</tr>
<tr>
<td></td>
<td>• The column name and type pairs of the signature of the federated stored procedure</td>
</tr>
<tr>
<td></td>
<td>For an explanation of the syntax of the db2fedgentf command, use the following command: &quot;db2fedgentf -h&quot;.</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong> Call the db2fedgentf command again, specifying the federated stored procedure name and the column name and type pairs of the signature of the stored procedure.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>DBT4005N</td>
<td>The string value for the &quot;-c&quot; option is not valid. db2fedgentf could not parse the column name and type pairs specified in that string. The string that was passed to the db2fedgentf call is: column-name-type-pairs-list.</td>
</tr>
<tr>
<td></td>
<td><strong>Explanation:</strong> You can use the db2fedgentf utility to create or drop table functions that access result sets from federated stored procedures.</td>
</tr>
<tr>
<td></td>
<td>When you call the db2fedgentf command to create a new table function for a given federated stored procedure, you must specify the column name and type pairs of the signature of the federated stored procedure.</td>
</tr>
<tr>
<td></td>
<td>The format of that string should be:</td>
</tr>
<tr>
<td></td>
<td>&quot;&lt;name1&gt; &lt;type1&gt;, &lt;name2&gt; &lt;type2&gt;, ...&quot;</td>
</tr>
<tr>
<td></td>
<td>For example:</td>
</tr>
<tr>
<td></td>
<td>&quot;PID CHAR(10), PRICE DOUBLE, QTY INT&quot;</td>
</tr>
<tr>
<td></td>
<td><strong>User response:</strong></td>
</tr>
<tr>
<td></td>
<td>1. Review the signature of the federated stored procedure for which you want to create the table function.</td>
</tr>
</tbody>
</table>
2. Review the format of the string you want to pass to the "-c" option of the db2fedgentf command.
3. Call the db2fedgentf command again, passing the column name and type pairs from the federated stored procedure signature in a string of valid format to the "-c" option.

**DBT4006N** db2fedgentf could not convert the SQL data type of the column named column-name to a JAVA data type. The SQL data type of the column is: SQL-data-type.

**Explanation:** You can use the db2fedgentf utility to create or drop table functions that access result sets from federated stored procedures.

The db2fedgentdf utility creates JAVA table functions. To accomplish this, the utility performs the following tasks: creates a JAVA file that contains the source for the new table function; compiles that generated JAVA file; and registers the new table function.

Because db2fedgentdf creates JAVA table functions, db2fedgentf must convert the SQL data types of the stored procedure result set columns to JAVA data types. In this case, there is no JAVA data type to which the named column can be converted.

No table function was created.

**User response:** Modify the federated stored procedure to change the SQL data type of the named column to one that can be converted to a JAVA data type.

**DBT4008N** db2fedgentf could not find the federated stored procedure called stored-procedure-name.

**Explanation:** You can use the db2fedgentf utility to create or drop table functions that access result sets from federated stored procedures.

The message was returned because db2fedgentf could not find an entry in the catalog for the federated stored procedure specified with the "-stpn" option on the command line.

No table function was created.

**User response:** Call db2fedgentf again, specifying a federated stored procedure that can be found in the catalog.

**DBT4011N** The db2fedgentf utility failed to create the JAVA source file for the table function. File name: File-name. Reason: reason-code.

**Explanation:** You can use the db2fedgentf utility to create or drop table functions that access result sets from federated stored procedures.

The db2fedgentdf utility creates JAVA table functions. To accomplish this, the utility performs the following tasks: creates a JAVA file that contains the source for the new table function; compiles that generated JAVA file; and registers the new table function.

To accomplish this, the utility performs the following tasks: creates a JAVA file that contains the source for the new table function; compiles that generated JAVA file; and registers the new table function.

The reason this message was returned is indicated by the reason code:

1. db2fedgentf could not allocate a file handle for the JAVA source file.
2. db2fedgentf could not write the table function source to the JAVA source file.
3. db2fedgentf could not open a file handle for the JAVA source file. Refer to the error string for more information.
4. db2fedgentf could not write the table function source code to the JAVA source file. Refer to the error string for more information.

No table function was created.

**User response:** Respond to this message according to the reason code:

1. Restart db2fedgentf.
2. If the maximum number of file handles has been allocated, close some of the open handles, and then restart db2fedgentf.
3 and 4 Respond according to the contents of the error string. For example, if db2fedgentf does not have the necessary file access permissions, work with your system administrator to grant db2fedgentf the required permission.

**DBT4012N** The db2fedgentf utility failed to compile the JAVA source file for the table function. File name: File-name. Reason: reason-code.

**Explanation:** You can use the db2fedgentf utility to create or drop table functions that access result sets from federated stored procedures.

The db2fedgentdf utility creates JAVA table functions. To accomplish this, the utility performs the following tasks: creates a JAVA file that contains the source for the new table function; compiles that generated JAVA file; and registers the new table function.

The reason this message was returned is indicated by the reason code:

1. db2fedgentf could not allocate a file handle for the JAVA source file.
2. db2fedgentf could not write the table function source to the JAVA source file.
3. db2fedgentf could not open a file handle for the JAVA source file. Refer to the error string for more information.
4. db2fedgentf could not write the table function source code to the JAVA source file. Refer to the error string for more information.

No table function was created.

**User response:** Respond to this message according to the reason code:

1. Restart db2fedgentf.
2. If the maximum number of file handles has been allocated, close some of the open handles, and then restart db2fedgentf.
3 and 4 Respond according to the contents of the error string. For example, if db2fedgentf does not have the necessary file access permissions, work with your system administrator to grant db2fedgentf the required permission.
The reason this message was returned is indicated by the reason code:

1  
db2fedgentf could not determine the current path in which to create the JAVA source file.

2  
db2fedgentf could not determine the DB2 install path.

3  
db2fedgentf could not delete the existing version of the class file.

4  
db2fedgentf could not copy the class file to the destination: <DB2-INSTALL-PATH>/function

No table function was created.

User response: Respond to this message according to the reason code:

1  
Verify that db2fedgentf has the necessary access authorization for the current directory.

2  
Investigate whether there are any errors with the current installation of DB2 database.

3  
Manually delete the existing version of the class file from: <DB2-INSTALL-PATH>/function

4  
Verify that db2fedgentf has the required access authorization for the following directory: <DB2-INSTALL-PATH>/function. If necessary, work with your system administrator to grant db2fedgentf access to that directory.

DBT4014I  
db2fedgentf successfully dropped the table function called table-function-name.

Explanation:  You can use the db2fedgentf utility to create or drop table functions that access result sets from federated stored procedures.

User response: You do not need to respond to this message.

DBT4016N  
db2fedgentf could not drop the table function called table-function-name because there are multiple table functions with the same name.

Explanation:  You can use the db2fedgentf utility to create or drop table functions that access result sets from federated stored procedures.

To perform its tasks, the db2fedgentf utility executes multiple database commands and invokes the JAVA compiler 'javac' to compile the JAVA file for the table function. The db2fedgentf utility will get JDK path by reading DBM configuration parameter JDK_PATH. This message is returned when one of those tasks encountered an error.

No table function was dropped or created.

User response:

1. Review the diagnostic information in the named file.
2. Check DBM configuration parameter JDK_PATH and ensure it is set correctly.
3. Respond to the errors in the diagnostic information.
4. Rerun the db2fedgentf command.

DBT4017N  
The following error occurred while db2fedgentf was creating the table function. SQLSTATE: sqlstate
SQLCODE: sqlcode; message text: message-text.

Explanation:  You can use the db2fedgentf utility to create or drop table functions that access result sets from federated stored procedures.

While creating a new table function, db2fedgentf encountered the given SQL error.

No table function was created.

User response:

1. Search for information about the SQL error in the DB2 Information Center.
2. Respond to the SQL error.
3. Call db2fedgentf again.

DBT4018N  
db2fedgentf encountered an internal error while creating the table function. The command that db2fedgentf was running is: command. The value that was returned from that command is: return-code. Diagnostic information is in the file called file-name.

Explanation:  You can use the db2fedgentf utility to create or drop table functions that access result sets from federated stored procedures.

To perform its tasks, the db2fedgentf utility executes multiple database commands and invokes the JAVA compiler 'javac' to compile the JAVA file for the table function. The db2fedgentf utility will get JDK path by reading DBM configuration parameter JDK_PATH. This message is returned when one of those tasks encountered an error.

No table function was dropped or created.

User response:

1. Review the diagnostic information in the named file.
2. Check DBM configuration parameter JDK_PATH and ensure it is set correctly.
3. Respond to the errors in the diagnostic information.
4. Rerun the db2fedgentf command.
The table function to drop was not specified. Both of the following options were missing: "-tfn", and "-tfsn".

**Explanation:**
You can use the db2fedgentf utility to create or drop table functions that access result sets from federated stored procedures.

When you call the db2fedgentf command to drop a table function for a given federated stored procedure, you must identify the table function using one of the following options:

- The table function name using the "-tfn" option
- The table function specific name using "-tfsn" option

For an explanation of the syntax of the db2fedgentf command, use the following command: "db2fedgentf -h".

**User response:**
Call the db2fedgentf command again, specifying the table function using either the table function name or the table function specific name.

**DBT4023N**
db2fedgentf could not drop the table function with specific name specific-name because that table function was not created using db2fedgentf.

**Explanation:**
You can use the db2fedgentf utility to create or drop table functions that access result sets from federated stored procedures. You can use the db2fedgentf utility to drop only those table functions that were created using the db2fedgentf utility.

This message was returned because the specified table function was not created using db2fedgentf.

No table function was dropped.

**User response:**
Use other methods, such as the DROP statement, to drop the table function.

**DBT4024N**
db2fedgentf could not create a table function for the specified procedure procedure-name because there are multiple procedures with the same name.

**Explanation:**
You can use the db2fedgentf utility to create or drop table functions that access result sets from federated stored procedures.

This message is returned when db2fedgentf cannot uniquely identify the procedure. This can happen when there are multiple procedures with the same name.

No table function was created.

**User response:**
Use both -stpn and -stpc to determine a unique procedure.

**DBT4025N**
db2fedgentf could not create a table function for the specified procedure, because a table function has already been created for that procedure. The specific name of the existing table function is: schema-name, specific-name

**Explanation:**
You can use the db2fedgentf utility to create or drop table functions that access result sets from federated stored procedures.

When using db2fedgentf, you can create only one table function for each federated stored procedure.

No table function was created.

**User response:**
Drop the existing table function for the specified procedure and run db2fedgentf again.

**DBT4026I**
The db2fedgentf utility successfully created the table function named table-function-name that you can use to access result sets that are returned from the federated stored procedure named federated-stored-procedure.

**Explanation:**
You can use the db2fedgentf utility to create or drop table functions that access result sets from federated stored procedures.

This message is returned when the db2fedgentf utility successfully creates a table function.

**User response:**
Use the new table function to access result sets that are returned from the federated stored procedure.

**DBT4027N**
The db2fedgentf command failed because the utility encountered an error while allocating an environment handle.

**Explanation:**
You can use the db2fedgentf utility to create or drop table functions that access result sets from federated stored procedures.

The db2fedgentf utility creates Java table functions. To accomplish this, the utility must perform a variety of database tasks. This message is returned when the db2fedgentf utility encounters an internal DB2 database error while performing those tasks. Specifically, this message is returned when the db2fedgentf utility fails to allocate an environment handle.

**User response:**
Run the db2fedgentf utility again:
1. Review available diagnostic information, such as the db2diag log, to determine why the db2fedgentf utility was unable to allocate an environment handle.
2. Resolve the problem or problems that caused the failure. For example, if the root cause of the handle allocation error was insufficient system memory, reconfigure the system to make more memory available.
3. Rerun the db2fedgentf command.

If the problem persists, perform the following steps:
1. Collect the following diagnostic information:
   - db2diag logs
2. Contact IBM support.

**Explanation:** You can use the db2fedgentf utility to create or drop table functions that access result sets from federated stored procedures.

To perform its tasks, the db2fedgentf utility executes multiple database commands and invokes the Java compiler ‘javac’ to compile the Java file for the table function. The db2fedgentf utility determines where the Java SDK installed by reading the JDK_PATH configuration parameter.

This message is returned when the db2fedgentf utility cannot determine the location of the Java SDK from the JDK_PATH configuration parameter for some reason, such as because the configuration parameter is NULL.

**User response:**
1. Set the JDK_PATH database manager configuration parameter to the directory under which the Java SDK is installed.
2. Run db2fedgentf again.

Because the db2fedgentf utility always generates Java source files with unique names, choosing not to delete the generated source file that the utility failed to delete will not cause problems with future db2fedgentf use. However, it is recommended that you review any available diagnostic information (such as the db2diag log files or operating system diagnostic files) to determine why the utility failed to delete the file. The root cause of this failure to delete the Java source file by the db2fedgentf utility might also cause problems with other activities.

**Explanation:** You can use the db2fedgentf utility to create or drop table functions that access result sets from federated stored procedures.

The db2fedgentf utility creates Java table functions. To accomplish this, the utility performs the following tasks:
- Creates a Java file that contains the source for the new table function
- Compiles that generated Java file
- Registers the new table function
- Deletes the generated Java source file

This message is returned when the db2fedgentf utility was supposed to delete the generated Java source file, but the utility failed to delete the file.

**User response:** Optional: You can delete the generated Java source file manually.
Chapter 92. DBT5000 - DBT5499

**DBT5000I** The `db2checkSD` utility completed successfully. The specified database can be used in a DB2 pureScale environment. The output log file is named `file-name`.

**Explanation:** Before converting your instance to a DB2 pureScale instance type, you can identify any database objects or features in the database that are not supported in a DB2 pureScale environment using the `db2checkSD` utility.

This message is returned when the `db2checkSD` utility did not find any database objects or features in the specified database that are not supported in a DB2 pureScale environment.

**User response:**
1. Optional: review the contents of the `db2checkSD` output log file.
2. You can now convert your instance to a DB2 pureScale instance type.

**DBT5001W** The `db2checkSD` utility completed with some warnings. The database or databases can be used in a DB2 pureScale environment, but some database objects or features will have to be converted or disabled. The output log file is named `file-name`.

**Explanation:** Before converting your instance to a DB2 pureScale instance type, you can identify any database objects or features in the database that are not supported in a DB2 pureScale environment using the `db2checkSD` utility.

This message is returned when the `db2checkSD` utility found some database objects or features in the specified database that are not supported in a DB2 pureScale environment which will be automatically converted or disabled when you convert the instance to a DB2 pureScale instance type.

**User response:**
1. Review the contents of the `db2checkSD` output log file.
2. Investigate any issues identified in the `db2checkSD` output log file that are of concern to you.
3. Convert the instance to a DB2 pureScale instance type.

**DBT5002N** The `db2checkSD` command failed because the following invalid parameter was specified: `parameter-name`.

**Explanation:** Before converting your instance to a DB2 pureScale instance type, you can identify any database objects or features in the database that are not supported in a DB2 pureScale environment using the `db2checkSD` utility.

This message is returned when an invalid parameter was passed to the `db2checkSD` command.

**User response:**
1. Run the `db2checkSD` command again, specifying valid parameters.

**DBT5003N** The `db2checkSD` command failed because a database was not specified and the `-e` parameter was not specified.

**Explanation:** Before upgrading a database to a DB2 pureScale environment, you can identify any database objects or features in the database that are not supported in a DB2 pureScale environment using the `db2checkSD` utility.

You can pass the name of a specific database to be checked, or you can use the `-e` parameter to specify that the `db2checkSD` utility should check all databases in the current DB2 instance. This message is returned when no database or databases were specified to be examined by the `db2checkSD` utility.

**User response:**
1. Run the `db2checkSD` command again, specifying which database or databases to check in one of the following ways:
   - Specify one specific database.
   - Use the `-e` parameter to specify all databases.
• Pass the -e parameter to cause the db2checkSD utility to examine all databases in the current DB2 instance.

**DBT5005N** The db2checkSD command failed because no output log file name was specified.

**Explanation:** Before upgrading a database to a DB2 pureScale environment, you can identify any database objects or features in the database that are not supported in a DB2 pureScale environment using the db2checkSD utility.

The db2checkSD creates an output log file that contains detailed information about the investigation of the database structure, metadata, objects, and features that the db2checkSD utility performed. You must specify the name of the output log file using the -l parameter.

This message is returned when no name for the db2checkSD output log file was specified using the -l parameter with the db2checkSD command.

**User response:** Run the db2checkSD command again, specifying an output log file name using the -l parameter.

**DBT5008N** The db2checkSD command failed because the length of the specified log file name is too long.

**Explanation:** Before upgrading a database to a DB2 pureScale environment, you can identify any database objects or features in the database that are not supported in a DB2 pureScale environment using the db2checkSD utility.

The db2checkSD creates an output log file that contains detailed information about the investigation of the database structure, metadata, objects, and features that the db2checkSD utility performed. You must specify the name of the output log file name using the -l parameter. The log file name cannot be longer than 256 characters.

This message is returned when an output log file name was specified using the -l parameter with the db2checkSD command that is longer than 256 characters.

**User response:** Run the db2checkSD command again, specifying an output log file name that is not longer than 256 characters.

**DBT5010N** The db2checkSD utility failed because the utility could not confirm that the current user has sufficient authority to run the db2checkSD utility.

**Explanation:** Before upgrading a database to a DB2 pureScale environment, you can identify any database objects or features in the database that are not supported in a DB2 pureScale environment using the db2checkSD utility.

The following authority is required to run the db2checkSD command: SYSADM or higher. This message is returned when a user without SYSADM...
authority or higher attempts to run the db2checkSD command.

**User response:** Respond to this message with one of the following actions:

- Request that your authorization be upgraded to SYSADM authorization or higher and then rerun the db2checkSD command.
- Request that a user with SYSADM authorization or higher run the db2checkSD command.

**DBT5011N** The db2checkSD utility failed because there are table spaces in the database which are not in the 'NORMAL' state. The db2checkSD utility generated a user script named `script-name`.

**Explanation:** Before upgrading a database to a DB2 pureScale environment, you can identify any database objects or features in the database that are not supported in a DB2 pureScale environment using the db2checkSD utility.

The db2checkSD utility performs the following tasks:

1. The db2checkSD utility identifies database objects and features that are not supported in a DB2 pureScale environment by examining database structures and metadata, as well as running queries against the database.
2. The db2checkSD utility generates a user script that you can run to prepare the database to be upgraded to a DB2 pureScale environment.

This message is returned when the db2checkSD utility found some table spaces that are in a state other than 'NORMAL', which would prevent the database from being upgraded successfully to a DB2 pureScale environment.

**User response:**

1. Identify the table spaces that are not in 'NORMAL' state by running the user script that was generated by the db2checkSD utility.
2. Move the table spaces that are not in a 'NORMAL' state to a 'NORMAL' state.
3. Run the db2checkSD utility against the database again.
4. If the db2checkSD utility succeeds, you can upgrade the database to a DB2 pureScale environment.

**DBT5022N** The db2checkSD command failed because both a database name was specified and the -e parameter was specified.

**Explanation:** Before upgrading a database to a DB2 pureScale environment, you can identify any database objects or features in the database that are not supported in a DB2 pureScale environment using the db2checkSD utility.

You can pass the name of a specific database to be checked, or you can use the -e parameter to specify that the db2checkSD utility should check all databases in the current DB2 instance.

**User response:** Run the db2checkSD command again, specifying which database or databases to check in one of the following ways:

- Specify one specific database.
- Pass the -e parameter to cause the db2checkSD utility to examine all databases in the current DB2 instance.

**DBT5025N** The db2checkSD utility completed with errors. The output log file is named `log-file-name`.

**Explanation:** Before upgrading a database to a DB2 pureScale environment, you can identify any database objects or features in the database that are not supported in a DB2 pureScale environment using the db2checkSD utility. The db2checkSD utility identifies these unsupported database objects and features by examining database structures and metadata, and...
running queries against the database.
This message is returned in the following situations, among others:

• An attempt was made to run the db2checkSD command from a computer that is configured to run only a cluster caching facility (CF).
• The db2checkSD utility was unable to connect to one or more of the databases.
• The db2checkSD utility encountered an unexpected error condition while running queries against the database.

User response: Respond to this message in one of the following ways:

• Verify that you can connect to the database successfully.
• If the db2checkSD command was issued on a computer that is configured to run only a CF, run the command from any computer that is configured to run a DB2 member instead.
• If the db2checkSD command was not issued on a computer that is configured to run only a CF, perform the following procedure:
  1. Collect the following files:
     – The output log file created by the db2checkSD utility
     – The generated user script created by the db2checkSD utility
     – The db2diag log
  2. Contact IBM support to investigate the problem.

---

**DBT5026I** The db2checkSD utility completed processing for database dbname.

Explanation: Before converting your instance to a DB2 pureScale instance type, you can identify any database objects or features in the database that are not supported in a DB2 pureScale environment using the db2checkSD utility.

This message is returned after the db2checkSD utility has finished checking each database, when it is invoked with the -e option to check all databases in the instance.

User response: Optional: Review the contents of the log file when the db2checkSD utility has finished checking all databases in the instance.

---

**DBT5027W** The db2checkSD utility did not check any databases. The output log file is named file-name.

Explanation: Before upgrading a database to a DB2 pureScale environment, you can identify any database objects or features in the database that are not supported in a DB2 pureScale environment using the db2checkSD utility.

This message is returned when the db2checkSD utility found an empty database directory or when the db2checkSD utility could not find a local database directory.

User response:

1. Catalog the databases that you want to check using the db2checkSD utility.
2. Run the db2checkSD command again.

---

**DBT5029W** The db2checkSD utility could not open or write to the file named file-name.

Explanation: Before upgrading a database to a DB2 pureScale environment, you can identify any database objects or features in the database that are not supported in a DB2 pureScale environment using the db2checkSD utility.

The db2checkSD utility generates the following files:

• An output log file that you can review for details about the db2checkSD utility’s investigations
• A user script that you can use to identify database objects or features that must be removed or disabled before upgrading the database or databases to a DB2 pureScale environment

This message is returned when the db2checkSD utility was unable to create the output log file or the generated user script.

User response:

1. Give the db2checkSD utility write permission for the path where you want the db2checkSD utility to create the output log file and the generated user script.
2. Run the db2checkSD utility again.

---

**DBT5033W** The db2checkSD utility identified one or more features that will be disabled when updating the instance to a DB2 pureScale environment.

Explanation: Before upgrading a database to a DB2 pureScale environment, you can identify any database objects or features in the database that are not supported in a DB2 pureScale environment using the db2checkSD utility.

This message is returned when the db2checkSD utility found some database objects or features in the specified database that are not supported in a DB2 pureScale environment which will be automatically converted or disabled when you upgrade the database to a DB2 pureScale environment.

User response:
1. Review the contents of the db2checkSD output log file.
2. Investigate any issues identified in the db2checkSD log that are of concern to you.
3. Upgrade the database to a DB2 pureScale environment.

**DBT5034I** The db2checkSD utility has already verified that database dbname can be used in a DB2 pureScale environment.

**Explanation:** The db2checkSD utility has already been run for the database and all checks were successful. The checks were not performed again.

**User response:** No further action is needed.

**DBT5035N** The db2checkSD command failed because the db2checkSD utility was not able to access the database manager configuration file.

**Explanation:** You can verify that a given database can be used in a DB2 pureScale environment using the db2checkSD utility. This message is returned when the db2checkSD utility is not able to open the database manager configuration file.

**User response:** Use commands such as db2 get dbm configuration to get more information about the error that occurs when DB2 attempts to read the database manager configuration file.

**DBT5036N** The db2checkSD command failed because either the db2checkSD utility was unable to connect to the database or the db2checkSD utility was unable to access the database configuration file.

**Explanation:** You can verify that a given database can be used in a DB2 pureScale environment using the db2checkSD utility. This message is returned when the db2checkSD utility is not able to open the database configuration file.

**User response:** Respond to this error by performing the following troubleshooting steps:

- Verify that you can connect to the database.
- Get more information about the error that occurs when DB2 attempts to read the database configuration file by performing one or both of the following actions:
  - Connect to the database
  - Run the GET DATABASE CONFIGURATION command for the database
### Chapter 93. DBT5500 - DBT5999

<table>
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<tr>
<th>DBT5500N</th>
<th>The current user does not have sufficient authority to run the db2ckupgrade utility.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The db2ckupgrade command is used to verify if a database can be upgraded. The following authority is required to run the db2ckupgrade command: SYSADM or higher. This message is returned when a user with insufficient authority attempts to run the db2ckupgrade command.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Run the db2ckupgrade command again, specifying valid parameters.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBT5501N</th>
<th>The db2ckupgrade utility could not open or write to the file named log-file-name.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The db2ckupgrade command is used to verify if a database can be upgraded. The db2ckupgrade utility generates an output log file that you can review for details about the processing done by the utility. This message is returned when the db2ckupgrade utility was unable to open or write to the output log file.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Give the db2ckupgrade utility write permission for the path where you want the db2ckupgrade utility to create the output log file. Run the db2ckupgrade utility again.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBT5502N</th>
<th>The db2ckupgrade utility failed because there was an incorrect number of parameters specified.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The db2ckupgrade command is used to verify if a database can be upgraded. This message is returned when the number of parameters specified is incorrect.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Run the db2ckupgrade command again, specifying valid parameters.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBT5503N</th>
<th>The db2ckupgrade utility failed because the following invalid parameter was specified: parameter-name.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The db2ckupgrade command is used to verify if a database can be upgraded.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBT5504N</th>
<th>The db2ckupgrade utility failed because a database was not specified and the -e parameter was not specified.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The db2ckupgrade command is used to verify if a database can be upgraded. You can pass the name of a specific database to be checked, or you can use the -e parameter to specify that the db2ckupgrade utility should check all databases in the current DB2 instance. This message is returned when no database or databases were specified to be examined.</td>
</tr>
</tbody>
</table>
| **User response:** | Run the db2ckupgrade command again, specifying which database or databases to check in one of the following ways:  
- Specify one database name.  
- Pass the -e parameter to cause the db2ckupgrade utility to examine all databases in the current DB2 instance. |

<table>
<thead>
<tr>
<th>DBT5505N</th>
<th>The db2ckupgrade utility failed because no output log file name was specified.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The db2ckupgrade command is used to verify if a database can be upgraded. The db2ckupgrade creates an output log file that contains detailed information about the investigation that the db2ckupgrade utility performed. You must specify the name of the output log file name using the -l parameter. This message is returned when no name for the db2ckupgrade output log file was specified.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Run the db2ckupgrade command again, using the -l parameter, to specify an output log file name.</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>DBT5506N</th>
<th>The db2ckupgrade utility failed because no value was specified for the following parameter: parameter-name.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The db2ckupgrade command is used to verify if a database can be upgraded.</td>
</tr>
</tbody>
</table>
DBT5507N The db2ckupgrade utility failed because the following parameter was specified more than once: parameter-name.

Explanation: The db2ckupgrade command is used to verify if a database can be upgraded. This message is returned when a parameter is passed to the db2ckupgrade command more than once.

User response: Run the db2ckupgrade command again, specifying the named parameter only once.

DBT5508I The db2ckupgrade utility completed successfully. The database or databases can be upgraded.

Explanation: The db2ckupgrade command is used to verify if a database can be upgraded. This message is returned when the db2ckupgrade utility verifies that all upgrade conditions are met. You can now upgrade the database.

User response:
1. Optional: Review the contents of the output log file.
2. You can now upgrade the database.

DBT5509N The db2ckupgrade utility failed because it could not connect to the database. Database: database-name.

Explanation: The db2ckupgrade command is used to verify if a database can be upgraded. This message is returned when the db2ckupgrade utility is unable to connect to the specified database.

User response:
1. Ensure that the specified database name is correct.
2. Ensure that the database manager is running.
3. Try the command again.

DBT5510W The db2ckupgrade utility found that the database contains the following types of objects, which are not supported in the version of DB2 database to which you are upgrading:

- XML global variables
- Compiled SQL functions that use parameters of type XML or that return XML types

User response: This message is returned when the db2ckupgrade utility finds database objects which are not supported in the version of DB2 database to which you are upgrading. Specifically, this message is returned when the following database objects are in a database being checked:

1. Global variables of type XML
2. Compiled SQL functions that use parameters of type XML or that return XML types

If you proceed to upgrade the database to the target version of DB2 database, these objects will be invalidated during database upgrade. You will be unable to use these database objects until you upgrade to a version of DB2 database that supports those database objects.

User response: To be able to use the database objects that are invalidated during upgrade, upgrade to a release and fix pack of DB2 database that supports XML global variables and compiled SQL functions that use XML parameters or that return XML types. When you upgrade to a fixpack that supports those database objects, the objects will be automatically revalidated the first time they are referenced after the database has been upgraded.

DBT5511N The db2ckupgrade utility failed because a parameter was too long. Parameter: parameter-name. Max length: max-length.

Explanation: The db2ckupgrade command is used to verify if a database can be upgraded. This message is returned when one of the parameters passed to the db2ckupgrade utility is longer than the maximum allowed length for that parameter.

User response: Run the db2ckupgrade command again, specifying the parameter with the correct length.

DBT5512E The db2ckupgrade utility determined that the following workload management object cannot be upgraded because the ID of that object conflicts with a system-reserved ID. Object name: object-name.

Explanation: Some workload management objects are assigned default, system-reserved identifiers (ID). This message is returned when the db2ckupgrade utility determines that an existing workload management object has an ID that happens to fall in the range of default, system-reserved IDs. The database cannot be upgraded while the workload management object with the conflicting ID exists in the database.

User response:
1. Extract the DDL statements that would reproduce your workload management objects by using the db2look utility, specifying the -wlm option.
2. Drop all of the workload management objects from the database.
3. Verify whether the database can be upgraded by using the `db2ckupg` utility, and resolve any other problems that are blocking the database from being upgraded.
4. After the `db2ckupg` utility determines that the database can be upgraded, perform the following steps:
   a. Upgrade the database.
   b. Recreate the workload management objects in the upgraded database by running the DDL statements that the `db2look` utility generated.

**DBT5513N** The `db2ckupg` utility failed because the SYSCATSPACE table space requires more space in order to complete the upgrade.

**Explanation:** The `db2ckupg` command is used to verify if a database can be upgraded. Typically, amount of free space defined by SYSCATSPACE should be at least the same as the current amount of used space.

This message is returned when SYSCATSPACE has less than 50% free pages left.

**User response:**
- Increase the size of existing containers. You can also add additional containers although this might trigger data rebalancing.
- Optional: You can reduce the size of the containers after upgrade.

**DBT5514N** The `db2ckupg` utility failed because the database is in a restore pending state.

**Explanation:** The `db2ckupg` command is used to verify if a database can be upgraded.

This message is returned when the database being checked is found to be in a restore pending state.

**User response:** Complete the restore and run the `db2ckupg` command again.

**DBT5515N** The `db2ckupg` utility failed because the database is in a backup pending state.

**Explanation:** The `db2ckupg` command is used to verify if a database can be upgraded.

This message is returned when the database being checked is in the process of having a backup taken to provide a starting point for roll-forward recovery, but is still in a backup pending state.

**User response:** Wait until the backup has completed and run the `db2ckupg` command again.

**DBT5516N** The `db2ckupg` utility failed because the database is in a rollforward pending state.

**Explanation:** The `db2ckupg` command is used to verify if a database can be upgraded.

This message is returned when the database being checked is enabled for roll-forward recovery and it has been restored but not rolled forward.

**User response:**
1. Roll forward the database or indicate that you do not wish to roll forward by using the `ROLLFORWARD` command. Note that if you do not roll forward the database, the records written since the last backup of the database will not be applied to the database.
2. Run the `db2ckupg` command again.

**DBT5517N** The `db2ckupg` utility failed because the database is in an inconsistent state.

**Explanation:** The `db2ckupg` command is used to verify if a database can be upgraded.

This message is returned when the database being checked is found to be in an inconsistent state.

The possible causes of this inconsistent state include:
- The database is online and SQL has been issued which modified data in the database.
- The database is online and HADR has been enabled.

**User response:**
1. Perform a clean shutdown of the database.
2. After shutdown, if HADR has been enabled on the database, issue the `STOP HADR` command on the database.
3. Re-issue the `db2ckupg` command.

**DBT5518W** The `db2ckupg` utility completed with one or more warnings but the database can still be upgraded. Log file: log-file.

**Explanation:** The `db2ckupg` command is used to verify if a database can be upgraded.

This message is returned when the `db2ckupg` utility completes with one or more warnings but the database can still be upgraded.

**User response:**
1. Optional: Review the contents of the output log file.
2. You can now upgrade the database.
DBT5519N  The db2ckupgrad utility failed because the utility failed to deactivate the database. SQLCODE: sqlcode.

Explanation: The db2ckupgrad command is used to verify if a database can be upgraded.
The db2ckupgrad command attempts to deactivate the specified database and stop all necessary database
services. This message is returned when the db2ckupgrad utility failed to deactivate the database.

User response: Perform the following:
1. Review the SQLCODE to determine the reasons why the database could not be deactivated and take corrective action.
2. Run the db2ckupgrad command again.

DBT5520N  The db2ckupgrad utility failed because an error occurred while setting the bypass flag for Query Patroller.
SQLCODE: sqlcode.

Explanation: The db2ckupgrad command is used to verify if a database can be upgraded.
This message is returned when the db2ckupgrad utility attempted to set the DB2_QP_BYPASS_COST variable but failed.

User response: Perform the following:
1. Review the SQLCODE and take corrective action.
2. Run the db2ckupgrad command again.

DBT5521N  The db2ckupgrad utility failed because the utility was not invoked on the instance being upgraded.

Explanation: The db2ckupgrad command verifies whether a database can be upgraded.
The db2ckupgrad command inspects a database in an instance from a previous level to determine whether it can be upgraded to a more recent level.
This message is returned when the db2ckupgrad utility was not invoked on the instance from a previous level.

User response: Run the db2ckupgrad command again on the instance from the previous level.

DBT5522N  The db2ckupgrad utility failed because the database has one or more tables in a load pending state.

Explanation: The db2ckupgrad command is used to verify if a database can be upgraded.
This message is returned when a previous LOAD attempt on one or more tables in the database did not complete successfully. The upgrade cannot proceed until the LOAD operation is restarted or terminated.

User response: Restart or terminate the previously failed LOAD operation on this table by issuing LOAD with the RESTART or TERMINATE option respectively.

To find out what tables are in a load pending state run the following command:
select tabname from SYSIBMADM.ADMINTABINFO
where load_status is not NULL

DBT5523N  The db2ckupgrad utility failed because the database has one or more tables in a redistribute pending state.

Explanation: The db2ckupgrad command is used to verify if a database can be upgraded.
This message is returned when the REDISTRIBUTE utility has not completed for one or more tables in the database. The upgrade cannot proceed until the REDISTRIBUTE is finished.

User response: Perform one of the following:
1. If the REDISTRIBUTE utility is in progress, wait until it completes. You can use the LIST UTILITIES command to monitor the progress of the REDISTRIBUTE utility.
2. If a previous REDISTRIBUTE operation failed and left the table in redistribute pending state, issue the REDISTRIBUTE utility again with the CONTINUE or ABORT option and let it complete.

DBT5524N  The db2ckupgrad utility failed because upgrading databases enabled for VARCHAR2 support from DB2 Version 9.5 is not supported.

Explanation: The db2ckupgrad command is used to verify if a database can be upgraded.
This message is returned when the db2ckupgrad utility determines that the database to be upgraded is enabled for VARCHAR2 support. Upgrading from DB2 Version 9.5 with VARCHAR2 is not supported.

User response: No action is needed. The database cannot be upgraded.

DBT5525N  The db2ckupgrad utility failed with an unhandled error.

Explanation: The db2ckupgrad command is used to verify if a database can be upgraded.
This message is returned in the following situations, among others:
• An attempt was made to run the db2ckupgrad command from a computer that is configured to run only a cluster caching facility (CF).
• The db2ckupgrad utility encountered an unhandled error condition while examining database structures and metadata, and running queries against the database.
User response: Respond to this message in one of the following ways:

1. If the db2ckupgade command was issued on a computer that is configured to run only a CF, run the command from any computer that is configured to run a DB2 member instead.

2. If the db2ckupgade command was not issued on a computer that is configured to run only a CF, collect the output log file created by the db2ckupgade utility, the generated user script created by the db2ckupgade utility, and the db2diag log. Then contact IBM support to investigate the problem.

---

**DBT5526W** The db2ckupgade utility did not check any databases. The output log file is named file-name.

Explanation: The db2ckupgade command is used to verify if a database can be upgraded. This message is returned when the db2ckupgade utility finds an empty database directory or when the db2ckupgade utility could not find a local database directory.

User response: Perform the following actions:

- Catalog the databases that you want to check using the db2ckupgade utility.
- Run the db2ckupgade command again.

---

**DBT5527N** The db2ckupgade command failed because the database manager could not be started. Return Code: return-code.

Explanation: The db2ckupgade command is used to verify if a database can be upgraded. The command failed.

User response: Determine the cause of the failure using the return code and try again.

---

**DBT5528N** The db2ckupgade utility failed because the I/O write operations for the database are suspended or are being suspended.

Explanation: The db2ckupgade command is used to verify if a database can be upgraded. This message is returned when the db2ckupgade utility cannot operate because I/O writes are suspended for the database.

User response: If write operations for the database are in the process of being suspended, monitor the state of the database using the suspend io configuration parameter, and wait until the SET WRITE SUSPEND operation completes before you continue, then reissue the db2ckupgade command again.

---

**DBT5529N** The db2ckupgade utility did not complete successfully. The database cannot be upgraded. The output log file is named log-file-name.

Explanation: The db2ckupgade command is used to verify if a database can be upgraded. This message is returned when the db2ckupgade utility has completed but not all upgrade conditions were met. The database cannot be upgraded.

User response:

1. Review the contents of the output log file and fix any issues.
2. Run the db2ckupgade command again.

---

**DBT5530N** The db2ckupgade command failed because the tablespace is not in normal state. Tablespace: tablespace-name. State: state. Member: member-name.

Explanation: The db2ckupgade command is used to verify if a database can be upgraded. This message is returned when the db2ckupgade utility attempted to access a table space which is in an invalid state, for which the intended access is not allowed.

The possible causes of the inconsistent state include:

- The database is online and SQL has been issued which modified data in the database.
- The database is online and HADR has been enabled.

User response: Perform the following actions:

1. Perform a clean shutdown of the database.
2. After shutdown, if HADR has been enabled on the database, issue the STOP HADR command on the database.
3. Re-issue the db2ckupgade command.

---

**DBT5531W** The db2ckupgade utility failed because it could not find any local database to process.

Explanation: The db2ckupgade command is used to verify if a database can be upgraded. This message is returned when the -e parameter is specified but the db2ckupgade utility is unable to find any local databases.

The command failed.

User response: Check whether any database names exist in the system database directory. If there are no database names in the system database directory, then either no databases exist or the database names have not been cataloged.

If a database name appears in the system database directory and the entry type is INDIRECT, ensure that
The database exists in the specified local database directory.

**DBT5532N** The db2ckupgrad utility failed because there are one or more MQTs that depend on system views.

**Explanation:** The db2ckupgrad command is used to verify if a database can be upgraded. This message is returned when the db2ckupgrad utility finds MQTs that depend on system views. During database upgrade all system views will be recreated, so any MQTs that depend on the system views will be automatically dropped.

**User response:** Perform the following actions:
- Generate and backup the DDL needed to create the MQTs
- Drop the MQTs
- Upgrade the database
- Recreate the MQTs

**DBT5533N** The db2ckupgrad utility failed because the utility failed to activate the database. SQLCODE: sqlcode.

**Explanation:** The db2ckupgrad command is used to verify if a database can be upgraded. This message is returned when the db2ckupgrad utility could not perform the verification because it failed to activate the database.

**User response:**
1. Review the SQLCODE to determine the reasons why the database could not be activated and take corrective action.
2. Run the db2ckupgrad command again.

**DBT5534W** The db2ckupgrad command found a database object which has a dependency on system built-in routines that are discontinued. Object name: schema-name.object-name. Object type: object-type. Discontinued routine upon which the object depends: schema-name.routine-name.

**Explanation:** Some system built-in routines such as table functions, views, or stored procedures, are discontinued in the target version of the database upgrade due to the introduction of new functionality or changes to the existing functionality. The database upgrade to that target version drops any system built-in routines that are discontinued. To continue to use database objects that have a dependency on these system built-in routines, you have to alter these database objects and remove the dependency before the database upgrade.

**User response:**
1. Audit the database using the following command:
   ```sql
   AUDIT DATABASE USING POLICY <policy-ID>
   ```
2. Run the db2ckupgrad command again.

If you do not audit the database and rerun db2ckupgrad, the SYSCAT.AUDITUSE catalog view will be cleared when the database is upgraded.

**DBT5537I** The db2ckupgrad utility has completed processing for database database-name.

**Explanation:** The db2ckupgrad command is used to verify if a database can be upgraded. This message is returned after the db2ckupgrad utility has finished checking each database, when it is invoked.
with the -e option to check all databases in the instance.

User response: Optional: Review the contents of the log file when the db2ckupgrade utility has finished checking all databases in the instance.

---

DBT5538N The db2ckupgrade utility found an unexpected mount point configuration.

Explanation: The db2ckupgrade command is used to verify if a database can be upgraded. When upgrading from DB2 V9.8 the database upgrade moves certain table space files to a new location. If the table space containers use an unexpected mount point configuration the table space data cannot be moved by the upgrade processing.

User response: Contact IBM support. If possible, have the details from the log file associated with the db2ckupgrade command available.

---

DBT5539N The db2ckupgrade utility found a discrepancy in the database control files.

Explanation: The db2ckupgrade command is used to verify if a database can be upgraded. When upgrading from DB2 9.8 the files under /MEMBERnnnn/sql/dbdir are consolidated to a single location. If the files in /sql/dbdir are not identical on all members the upgrade processing cannot consolidate them.

User response: Contact IBM support. If possible, have the log file associated with the db2ckupgrade command available.
Chapter 94. DBT6000 - DBT6499

DBT6000N  The global database configuration file is not valid. Configuration file: file-name.

Explanation: The utility is unable to update the global database configuration file because the file was created using a different DB2 version or is corrupt.

User response:
1. Ensure that the DB2 product that you are using on the secondary system is at the same level as the one that you are using on the primary system.
2. If the file is corrupt, restore the original split mirror copy of the database if the copy is still available. If the configuration file is still corrupt after the restore operation, take a new split mirror copy of the database.
3. Rerun the utility.

DBT6001N  The db2relocatedb command failed because the database manager was unable to relocate one or more database storage paths. Reason code = reason-code.

Explanation: You can rename or relocate a database using the db2relocatedb command. You specify the details of the new configuration for the database by passing the name of a configuration file that contains configuration keyword-value pairs.

This message is returned when an attempt is made to change one or more storage paths of a database by calling the db2relocatedb command with a configuration file that includes the STORAGE_PATH keyword, and the database manager is unable to move the storage path or paths.

The reason code indicates the reason why the database manager was unable to move the storage path or paths:
1. One or both of the storage group control files, SQLSGF.1 or SQLSGF.2 was not successfully upgraded.
2. The old storage path that was specified with the STORAGE_PATH keyword in configuration file does not match any existing storage paths.

User response: Respond to this error according to the reason code:

Reason code 1:
1. Validate that the storage control files, SQLSGF.1 and SQLSGF.2, are consistent and upgraded properly, using the db2dart tool with /TSF option.

Reason code 2:

1. Determine which storage paths exist using one of the following methods:
   - Refer to the db_storage_path monitor element
   - Call the ADMIN_GET_STORAGE_PATHS table function
2. Run the db2relocatedb command again, specifying a configuration file that contains only valid old storage paths with the STORAGE_PATH keyword.

DBT6100I  The db2ida command completed successfully.

Explanation: You can stop or restart embedded processes for an in-database analytics provider without stopping and restarting the DB2 database manager instance using the db2ida command.

User response: No further action is required.

DBT6101W  The db2ida -start command was attempted on number-of-partitions database partitions. Number of database partitions that were successfully started: number-started. Number of database partitions that had already been started: number-already-started. Number of database partitions that were not successfully started: number-not-started.

Explanation: You can stop or restart embedded processes for an in-database analytics provider without stopping and restarting the DB2 database manager instance using the db2ida command.

The db2ida command did not start all of the embedded processes of the in-database analytics provider on all database partitions. The in-database analytics functionality will be unavailable until all of the embedded processes of the in-database analytics provider are running on all database partitions.

User response: Correct the problem on the failed database partitions and resubmit the command.
The db2ida -stop command was attempted on `number-of-partitions` database partitions. Number of database partitions that were successfully stopped: `number-stopped`. Number of database partitions that had already been stopped: `number-already-stopped`. Number of database partitions that were not successfully stopped: `number-not-stopped`.

**Explanation:**
You can stop or restart embedded processes for an in-database analytics provider without stopping and restarting the DB2 database manager instance using the db2ida command.

The db2ida command did not stop all of the embedded processes of the in-database analytics provider on all database partitions. If you are planning to perform maintenance that involves the in-database analytics provider, the planned maintenance might not be successful because some of the related processes are still running.

**User response:**
Correct the problem on the failed database partitions and resubmit the command.

---

The db2ida command failed because the following invalid parameter was specified: `parameter-name`.

**Explanation:**
You can stop or restart embedded processes for an in-database analytics provider without stopping and restarting the DB2 database manager instance using the db2ida command.

An invalid parameter was passed to the db2ida command.

**User response:**
Run the db2ida command again, specifying valid parameters.

---

The db2ida command failed because the specified provider is not supported.

**Explanation:**
You can stop or restart embedded processes for an in-database analytics provider without stopping and restarting the DB2 database manager instance using the db2ida command.

This message is returned if an unsupported value is specified with the -provider parameter.

**User response:**
Run the db2ida command again, specifying a valid value for the -provider parameter.

---

The db2ida command could not start the embedded processes of the specified provider because an option of a related registry variable is not set. Specified provider: `provider-name`. Registry option: `option-name`. Registry variable: `registry-variable`.

**Explanation:**
You can stop or restart embedded processes for an in-database analytics provider without stopping and restarting the DB2 database manager instance using the db2ida command.

In order for the db2ida command to successfully start the embedded processes of the in-database analytics provider, the given registry variable must be set.

**User response:**
1. Set the given option for the given registry variable.
2. Run the db2ida command again.

---

The db2ida command failed because the database manager did not have enough system resources.

**Explanation:**
You can stop or restart embedded processes for an in-database analytics provider without stopping and restarting the DB2 database manager instance using the db2ida command.

There were insufficient system resources for the database manager to run the db2ida command on the local or remote database partition.

**User response:**
1. Check the system workload status.
2. Release some system resources.
3. Run the db2ida command again.

---

The db2ida command failed to start the embedded processes for the specified provider because a required executable was not found. Specified provider name: `provider-name`.

**Explanation:**
You can stop or restart embedded processes for an in-database analytics provider without stopping and restarting the DB2 database manager instance using the db2ida command.

A required executable to start the embedded process could not be located under the database manager instance directory.

**User response:**
1. Ensure that the DB2 database product is properly installed.
2. Ensure that the database manager instance has been created successfully.
3. Run the db2ida command again.
The db2ida command failed to start the embedded processes for the specified provider because the database manager was not running on the database partition. Specified provider name: provider-name.

**Explanation:** You can stop or restart embedded processes for an in-database analytics provider without stopping and restarting the DB2 database manager instance using the db2ida command.

The embedded processes for an in-database analytics provider cannot be started if the database manager is not running on all database partitions.

**User response:**
1. Determine on which database partitions the database manager is not up and running.
2. Start the database manager on all database partitions using the db2start command.
3. Run the db2ida command again.

The db2ida command timed out.

**Explanation:** You can stop or restart embedded processes for an in-database analytics provider without stopping and restarting the DB2 database manager instance using the db2ida command.

This message is returned when the db2ida command fails to receive a response from the embedded processes of the in-database analytics provider.

**User response:**
1. Increase the value of the start_stop_time database manager configuration parameter.
2. Run the db2ida command again.

The db2ida command failed because the user who ran the command did not have the required authorization.

**Explanation:** You can stop or restart embedded processes for an in-database analytics provider without stopping and restarting the DB2 database manager instance using the db2ida command.

This message is returned when the db2ida command did not have the required authorization to run necessary DB2 database-related utilities. The db2ida command runs with the same authorization as the user who executed the command.

**User response:** Run the db2ida command again, as a user with the required authorization.

The db2ida command failed because the db2ida utility was unable to load a library of the provider.

**Explanation:** You can stop or restart embedded processes for an in-database analytics provider without stopping and restarting the DB2 database manager instance using the db2ida command.

The library for the in-database analytics feature is part of the installation of the provider. Some possible reasons for this error are:

- The library for the embedded process could not be found in the library path.
- The library could not be loaded by the database manager.

**User response:**
1. Ensure that the library path for the in-database analytics library of the provider exists.
2. Run the db2ida command again.

The db2ida command failed to invoke the entry function for the embedded process.

**Explanation:** You can stop or restart embedded processes for an in-database analytics provider without stopping and restarting the DB2 database manager instance using the db2ida command.

The main entry function could not be found in the library, and the embedded process failed.

**User response:** Respond to this error by performing the following troubleshooting steps:

- Resubmit the action.
- Reinstall the in-database analytics provider library.
• Contact technical support for the in-database analytics provider.

DBT6114N The db2ida command failed to start the embedded process because the communication buffers could not be allocated.

Explanation: You can stop or restart embedded processes for an in-database analytics provider without stopping and restarting the DB2 database manager instance using the db2ida command.

The DB2 database manager instance does not have enough shared memory to allocate for communication buffers between the DB2 database server and the embedded process. One possible reason for this error is that the DB2_FMP_COMM_HEAPSZ registry variable was set too low.

User response: Respond to this error by performing the following troubleshooting steps:
1. Increase the value of the DB2_FMP_COMM_HEAPSZ registry variable.
2. Restart the DB2 instance.
3. Run the db2ida command again.

DBT6115N The db2ida command failed to stop the embedded process because the embedded process was still involved in an uncompleted transaction.

Explanation: You can stop or restart embedded processes for an in-database analytics provider without stopping and restarting the DB2 database manager instance using the db2ida command.

The embedded process was still involved in an uncompleted transaction. The database manager could not stop the embedded process.

User response: Respond to this error in one of the following ways:
• Wait until the transaction completes and then issue the db2ida command again.
• Force the embedded process to stop by issuing the db2ida command with the -stopforce parameter.

DBT6116W The db2ida command could not complete successfully because of concurrent start or stop processing on the embedded process.

Explanation: You can stop or restart embedded processes for an in-database analytics provider without stopping and restarting the DB2 database manager instance using the db2ida command.

Other activities to start or stop the embedded process were running concurrently in the DB2 instance. Concurrent activities include the following:
• Forced termination of an unresponsive embedded process
• Automatic restart of a previously terminated embedded process
• Other running db2ida commands

User response:
1. Wait until other activities complete.
2. Run the db2ida command again.

DBT6117N The db2ida command could not complete successfully because a communication error occurred.

Explanation: You can stop or restart embedded processes for an in-database analytics provider without stopping and restarting the DB2 database manager instance using the db2ida command.

A TCP/IP communication error occurred while the db2ida command was attempting to establish a connection with a database partition.

User response: Complete the following troubleshooting steps:
• Ensure that the database partition has the proper authorization defined in the rhosts or host.equiv file.
• Ensure that the application is not using more than 500 + (1995 - 2 * total_number_of_dbpartitions) file descriptors simultaneously.
• Ensure that all environment variables are defined, and that the profile is written in Korn Shell script format.
• Ensure that all of the hosts that are defined in the db2nodes.cfg file in the sqllib directory are defined on the network and are running.
• Ensure that the DB2FCMCOMM registry variable is set correctly.
Chapter 95. DBT7000 - DBT7499

**DBT7000I**  
db2caem completed. Output path: output-path.

**Explanation:** You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

This message is returned when the db2caem utility has completed.

**User response:** Review the files generated by the db2caem utility in the named output path.

---

**DBT7001E**  
utility-name: The db2caem command failed because invalid syntax was specified.

**Explanation:** You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

This message is returned when a syntax error is made in the db2caem command.

You can view the db2caem command syntax by running the following command:

db2caem -h

**User response:** Review the db2caem command syntax, and then rerun the command with valid syntax.

---

**DBT7002E**  
utility-name: The following input value is invalid: value.

**Explanation:** You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

This message is returned when invalid input data is specified.

You can view the db2caem command syntax by running the following command:

db2caem -h

**User response:** Review the db2caem command syntax, and then rerun the command with valid input.

---

**DBT7003E**  
utility-name: The db2caem command failed because no database name was specified.

**Explanation:** You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

This message is returned when no database is specified.

You can view the db2caem command syntax by running the following command:

db2caem -h

**User response:** Review the db2caem command syntax, and then rerun the command specifying a database with the -d parameter.

---

**DBT7004E**  
utility-name: The db2caem command failed because no query statement options were specified and no event monitor options were specified.

**Explanation:** You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

You must specify either query statement options or event monitor options when you issue the command. This message is returned when no query statement options are specified and no event monitor options are specified.

You can view the db2caem command syntax by running the following command:

db2caem -h

**User response:** Review the db2caem command syntax, and then rerun the command specifying either query statement options or event monitor options.

---

**DBT7005E**  
utility-name: The db2caem command failed because one of the parameters -u or -p was not specified.

**Explanation:** You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

You can specify a user id with the -u parameter and the password for that user ID with -p parameter.

You must specify both -u and -p or neither. This message is returned when only one of -u or -p is specified.

You can view the db2caem command syntax by running the following command:

db2caem -h

**User response:** Review the db2caem command syntax, then rerun the command specifying a user ID with the -u parameter and a password with the -p parameter.

---

**DBT7006E**  
utility-name: The db2caem command failed because one or more required event monitor parameters were not specified.
Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

You can view the db2caem command syntax by running the following command:

db2caem -h

User response: Review the db2caem command syntax, and then rerun the command specifying all of the required parameters.

---

**DBT7009E**

*utility-name*: The db2caem command failed because the specified database name *database-name* is too long.

Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

This message is returned when the database name that is specified is longer than length limits imposed on DB2 database names.

User response: Rerun the command specifying a valid database name.

---

**DBT7010E**

*utility-name*: The db2caem command failed because the specified user ID *user-ID* is too long.

Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

This message is returned when the user ID that is specified is longer than length limits imposed on user names by DB2 database.

User response: Rerun the command specifying a valid user id.

---

**DBT7011E**

*utility-name*: The db2caem command failed because the specified password *password* is too long.

Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

This message is returned when the password that is specified is longer than length limits imposed on passwords by DB2 database.

User response: Rerun the command specifying a valid password.

---

**DBT7012E**

*utility-name*: The db2caem command failed because the SQL statement in the file specified with the -sf parameter is longer than the SQL limit. Length of specified statement: *length*.

Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

This message is returned when the SQL statement in the file specified with the -sf parameter is longer than length limits imposed on SQL statements in DB2 databases. This message can also be returned when the terminating character is missing or invalid in the specified SQL statement.

User response: Rerun the command specifying a valid SQL statement.
DBT7013E  utility-name: The db2caem command failed because there is a problem with the path of the specified SQL file or the compilation environment file. Specified file path: path.

Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

You can specify a file that contains a SQL statement for which activity event monitor data should be collected using the -sf parameter. You can specify the compilation environment information in a file using the -compenv parameter. This message is returned when the db2caem utility cannot access the file path for one of these specified files.

There are several reasons why the db2caem utility might not be able to access the specified file path:
- The specified file path does not exist.
- The db2caem utility runs with the same authority as the user who executes the db2caem command. This means that you must be able to access the file path specified with the -sf parameter and the -compenv parameter. This message can be returned when the user who executes the db2caem command does not have access to the specified file path.

User response: Rerun the command specifying a file path that exists and that you can access.

DBT7014E  utility-name: The db2caem command failed because the db2caem utility could not open the SQL file specified with the -f parameter. File name: file-name. Return code: return-code.

Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

You can specify a file that contains a SQL statement for which activity event monitor data should be collected using the -sf parameter. This message is returned when the db2caem utility cannot open the file specified with the -sf parameter.

There are several reasons why the db2caem utility might not be able to open the specified file:
- The specified file does not exist.
- The db2caem utility runs with the same authority as the user who executes the db2caem command. This means that you must be able to open the file specified with the -sf parameter. This message can be returned when the user who executes the db2caem command does not have authority to open the specified file.

User response: Rerun the command specifying a file path that exists and that you can open.

DBT7015W  utility-name: The db2caem command failed because the db2caem utility could not open the following internal file: file-name. Return code: return-code.

Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

This message is returned when the db2caem utility could not open an internal, temporary file at run time. The db2caem utility can complete successfully despite this warning.

User response: No user response is required.

DBT7016E  utility-name: The db2caem command failed because the length of the specified SQL file or compilation environment file is too long. Specified file name: file-name. Length of specified file name: length

Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

You can specify a file that contains a SQL statement for which activity event monitor data should be collected using the -sf parameter. You can specify a file that contains compilation environment information using the -compenv parameter. This message is returned when the full name, including the path, of the file specified with the -sf parameter or the -compenv parameter is too long.

User response: Rerun the command specifying a SQL file name that is a valid length.

DBT7017E  utility-name: The db2caem command failed because the specified table space name is too long. Specified table space name: table-space-name.

Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

You can specify a table space name for which activity event monitor data should be collected using the -tbspname parameter. This message is returned when the table space name specified with the -tbspname parameter is too long.

User response: Rerun the command specifying a table space name that is a valid length.

DBT7018E  utility-name: The db2caem command failed because the specified activity event monitor name is too long. Specified activity event monitor name: event-monitor-name.

Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

You can specify an activity event monitor name for which activity event monitor data should be collected using the -eventmonname parameter. This message is returned when the activity event monitor name specified with the -eventmonname parameter is too long.

User response: Rerun the command specifying an activity event monitor name that is a valid length.
data, which can be used to analyze SQL statement performance, using the db2caem utility.

You can specify an activity event monitor name for which activity event monitor data should be collected using the -actevm parameter. This message is returned when the activity event monitor name specified with the -actevm parameter is too long.

User response: Rerun the command specifying an activity event monitor name that is a valid length.

DBT7019E utility-name: The db2caem command failed because the specified application ID is too long. Specified application ID: application-ID.

Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

You can specify an application ID for which activity event monitor data should be collected using the -appid parameter. This message is returned when the application ID specified with the -appid parameter is too long.

User response: Rerun the command specifying an application ID that is a valid length.

DBT7020E utility-name: The db2caem command failed because the specified output path does not exist or cannot be fully qualified. Specified output path: path.

Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

You can specify the path in which the db2caem utility will generate output files using the -o parameter. This message is returned when the db2caem utility cannot access the path specified with the -o parameter.

There are several reasons why the db2caem utility might not be able to access the specified path:

- The specified path does not exist.
- The db2caem utility runs with the same authority as the user who executes the db2caem command. This means that you must be able to access the path specified with the -o parameter. This message can be returned when the user who executes the db2caem command does not have access to the specified output path.

User response: Rerun the command specifying a output path that exists and that you can access.

DBT7021E utility-name: The db2caem command failed because the db2caem utility encountered an out-of-memory error. Return code: return-code.

Explanation: An out-of-memory error is a system error that prevents the command from completing. This message is returned when the db2caem utility encounters an out-of-memory error while attempting to capture activity event monitor data.

User response: 1. Free memory that is being used by other processes. 2. Rerun the db2caem command.

DBT7022E utility-name: The db2caem command failed because the specified output path name is too long. Specified output path name: file-name.

Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

You can specify the path in which the db2caem utility will generate output files using the -o parameter. This message is returned when the name of the output path specified with the -o parameter is too long.

User response: 1. Determine why db2caem is unable to create subdirectories in the output directory by reviewing diagnostic information in the db2diag log files or the db2caem.log file, if it was created. 2. Resolve the problem or problems that are preventing the db2caem utility from creating subdirectories in the output directory. 3. Execute the db2caem command again.

DBT7023E utility-name: The db2caem command failed because the db2caem utility was unable to create the following directory: directory-name. Return code: return-code.

Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

You can specify the path in which the db2caem utility will generate output files using the -o parameter. The db2caem utility creates subdirectories in the output directory. This message is returned when the db2caem utility is unable to create subdirectories in the output directory.

User response: 1. Determine why db2caem is unable to create subdirectories in the output directory by reviewing diagnostic information in the db2diag log files or the db2caem.log file, if it was created. 2. Resolve the problem or problems that are preventing the db2caem utility from creating subdirectories in the output directory. 3. Execute the db2caem command again.
The db2caem command failed because the db2caem utility encountered an internal database error.

**Return code:** return-code.

**Explanation:** You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

The db2caem utility performs a variety of database tasks to collect the activity event monitor data. This message is returned when the db2caem utility fails to perform one of these internal database tasks such as failing to determine the path for a specified file.

The db2caem utility cannot proceed.

**User response:**

1. Collect the following diagnostic information:
   - db2diag logs
2. Contact IBM support

The db2caem command failed because querying the table table-name returned unexpected rows.

**Number of rows returned:** num-rows-returned.

**Explanation:** You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

The db2caem utility queries the specified table to collect information about the query statement that is specified with the -st parameter, that is contained in the file specified with the -sf parameter, or that is obtained from an existing event monitor specified with the -actevm parameter. The db2caem utility found unexpected rows that were returned by this query. Thus, an error condition might exist that you cannot resolve.

**User response:** Rerun the db2caem command.

If the problem persists, perform the following steps:

1. Collect the following diagnostic information:
   - db2diag logs
2. Contact IBM support

The db2caem command failed because the DB2 database manager encountered an error while processing the specified input parameters and the specified SQL statement.

**Handle type:** handle-type.

**Return code:** return-code.

**Explanation:** You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

This message is returned when the database server cannot process the input options specified with the db2caem command and the SQL statement specified with the -st parameter or contained in the SQL file specified with the -sf parameter.

This message can be returned when there is a syntax error with the specified SQL statement.

User response:

1. Determine what the internal error is, based on the return code.
2. Resolve the source of the internal error.
3. Execute the db2caem command again.
User response:
1. Review available diagnostic information.
2. Correct the invalid input parameters or invalid SQL syntax.
3. Rerun the db2caem command.

**DBT7029E** utility-name: The db2caem command failed because the DB2 database manager encountered a handle error. Handle type: handle-type. Return code: return-code.

Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

The db2caem utility must perform a variety of database tasks to collect the activity event monitor data. This message is returned when the db2caem utility encounters an internal DB2 database error while performing those tasks.

User response: Perform the activity event monitor data activity again:
1. Review available diagnostic information.
2. Resolve the problem or problems that caused the failure.
3. Rerun the db2caem command.

If the problem persists, perform the following steps:
1. Collect the following diagnostic information:
   - db2diag logs
2. Contact IBM support.

**DBT7030E** utility-name: The db2caem command failed because the DB2 database manager encountered an error while allocating an environment handle. Return code: return-code.

Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

The db2caem utility must perform a variety of database tasks to collect the activity event monitor data. This message is returned when the db2caem utility encounters an internal DB2 database error while performing those tasks.

User response: Perform the activity event monitor data activity again:
1. Review available diagnostic information.
2. Resolve the problem or problems that caused the failure.
3. Rerun the db2caem command.

If the problem persists, perform the following steps:
1. Collect the following diagnostic information:
   - db2diag logs
2. Contact IBM support.


Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

The db2caem utility must perform a variety of database tasks to collect the activity event monitor data. This message is returned when the db2caem utility encounters an internal DB2 database error while performing those tasks.

User response: Perform the activity event monitor data activity again:
1. Review available diagnostic information.
2. Resolve the problem or problems that caused the failure.
3. Rerun the db2caem command.

If the problem persists, perform the following steps:
1. Collect the following diagnostic information:
   - db2diag logs
2. Contact IBM support.

**DBT7032W** utility-name: The db2caem command failed because the DB2 database manager encountered a warning. Return code: return-code.

Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

The db2caem utility must perform a variety of database tasks to collect the activity event monitor data. This message is returned when the db2caem utility encounters an internal DB2 database warning while performing those tasks.

This message can be returned when the db2caem utility cannot retrieve an environment variable.

User response: Rerun the db2caem command.

If the problem persists, perform the following steps:
1. Collect the following diagnostic information:
   - db2diag logs
2. Contact IBM support.

**DBT7033E** utility-name: The db2caem utility encountered an error while processing the specified SQL statement. SQL statement: statement. Return code: return-code.
**Explanation:** You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

This message is returned when the database server encountered an error while processing the SQL statement specified with the -st parameter or contained in the SQL file specified with the -sf parameter.

This message can be returned for several reasons, including the following reasons:

- There is a syntax error with the SQL statement.
- An invalid terminating character is used in the SQL statement.

**User response:**
1. Review available diagnostic information.
2. Correct the invalid input parameters or invalid SQL syntax.
3. Rerun the db2caem command.

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**DBT7034E**

utility-name: The db2caem utility encountered an error while running the db2exfmt command. Return code: return-code.

**Explanation:** You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

The db2caem utility must perform a variety of database tasks to collect the activity event monitor data. For example, the db2caem command executes the db2exfmt command to format the contents of the EXPLAIN table for the specified SQL statement. This message is returned when the db2caem utility encounters an error while running the db2exfmt utility.

The db2caem utility can proceed despite the db2exfmt error.

**User response:** No response is required.

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**DBT7035W**

utility-name: The db2caem utility encountered an error while running the GET CONNECTION ATTRIBUTE command. Return code: return-code.

**Explanation:** You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

The db2caem utility must perform a variety of database tasks to collect the activity event monitor data. For example, the db2caem utility uses the connection attribute to verify the connection to the database while the command runs. This message is returned when the db2caem utility encounters an error while running the GET CONNECTION ATTRIBUTE command.

The fact that the db2caem utility failed to obtain the connection attribute might indicate a problem with the database connection.

**User response:** No response is required.

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**DBT7036W**

utility-name: The db2caem utility encountered an error while disconnecting from the database. Return code: return-code.

**Explanation:** You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

The db2caem utility must perform a variety of database tasks to collect the activity event monitor data. This message is returned when the db2caem utility encounters an error while disconnecting from the database specified with the -d parameter.

The db2caem utility can complete successfully despite failing to disconnect from the database.

**User response:** No response is required.

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**DBT7037W**

utility-name: The db2caem utility encountered an error while freeing a CLI handle. The SQLFreeHandle function failed with the following return code: return-code.

**Explanation:** You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

The db2caem utility must perform a variety of database tasks to collect the activity event monitor data. This message is returned when the db2caem utility encounters an error while freeing internal resources.

The db2caem utility can complete successfully despite failing to free this CLI handle.

**User response:** No response is required.

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**DBT7038I**

utility-name: The db2caem utility successfully connected to the following database: database-name.

**Explanation:** You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

The db2caem utility must perform a variety of database tasks to collect the activity event monitor data. For example, the db2caem utility must connect to the specified database.

**User response:** No response is required.
DBT7039I  utility-name: The db2caem utility successfully disconnected from the following database: database-name.

Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

The db2caem utility must perform a variety of database tasks to collect the activity event monitor data. For example, the db2caem utility must connect to and disconnect from the specified database.

User response: No response is required.

DBT7040E  utility-name: The db2caem command failed because the specified statement contains a keyword that is not explainable or will not be executed by the db2caem utility. statement. Keyword: keyword

Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

To collect activity event monitor data, the db2caem utility must be able to explain or execute the specified statement. This message is returned when the specified SQL statement cannot be explained or will not be executed. This can happen for the following reasons:

- A statement might not be explainable if the statement creates, alters, or drops database objects, for example.
- The db2caem utility will not execute CALL statements because executing CALL statements might have undesirable side-effects in the specified database.

The db2caem utility cannot collect the requested activity event monitor data.

User response: 1. Modify the SQL statement specified with the -st parameter or included in the SQL file specified with the -sf parameter so that the statement is explainable and does not include the CALL keyword.
2. Rerun the db2caem command with the altered statement.

DBT7041I  utility-name: The db2caem utility is connecting to the following database: database-name.

Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

The db2caem utility must perform a variety of database tasks to collect the activity event monitor data, including connecting to the specified database.

User response: No response is required.

DBT7042I  utility-name: The SQL statement statement is being issued.

Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

The db2caem utility must perform a variety of database tasks to collect the activity event monitor data, including issuing the indicated statement with the -st option is specified or the -sf option is specified.

User response: No response is required.

DBT7043I  utility-name: The db2caem utility is disconnecting from the following database: database-name.

Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

The db2caem utility must perform a variety of database tasks to collect the activity event monitor data, including connecting to and disconnecting from the specified database.

User response: No response is required.

DBT7044E  utility-name: The db2caem command failed because the db2caem utility could not obtain information from the operating system about the following file: file-name. Return code: return-code.

Explanation: You can capture activity event monitor data, which can be used to analyze SQL statement performance, using the db2caem utility.

You can specify a file that contains a SQL statement for which activity event monitor data should be collected using the -st parameter. You can specify a file that contains compilation environment information using the -compenv parameter. This message is returned when the db2caem utility cannot obtain information from the operating system about the file specified with the -sf parameter or the file specified with the -compenv parameter.

There are several reasons why the db2caem utility might not be able to access the specified file:

- The specified file does not exist.
- The db2caem utility runs with the same authority as the user who executes the db2aem command. This means that you must be able to open the file specified with the -sf parameter or the file specified with the -compenv parameter. This message can be returned when the user who executes the db2caem command does not have authority to open the specified file.
User response: Rerun the command specifying a file path that exists and that you can access.

DBT7045E The db2cklog command failed because the db2cklog utility cannot open the current log file. Log file name: log-file-name.

Explanation: You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility. The db2cklog utility runs with the same authority as the user who ran the db2cklog command. This message is returned when the db2cklog utility cannot verify a log file because the db2cklog utility cannot open the log file. The db2cklog utility might not have been able to open the log file for the following reasons:
- The log file exists in a path that the db2cklog utility cannot access
- The db2cklog utility does not have read permission for the log file

User response: Rerun the command specifying an archived log file or range of archived log files that exist in a path that you can access.

DBT7046E The db2cklog command failed because the db2cklog utility encountered a memory allocation failure.

Explanation: You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility. This message is returned when the db2cklog utility failed to allocate enough memory to perform the tasks associated with validating log files.

User response: Perform the log file validation operation again:
1. Review available diagnostic information.
2. Resolve the problem or problems that caused the failure.
3. Rerun the db2cklog command.

If the problem persists, perform the following steps:
1. Collect the following diagnostic information:
   - DB2diag logs
2. Contact IBM support.

DBT7047E The db2cklog command failed because the db2cklog utility cannot close the current log file.

Explanation: You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility. This message is returned when the db2cklog utility is unable to close the log file. The db2cklog utility might not have been able to close the log file for the following reasons:
- The log file no longer exists in the same location as when the db2cklog command was run
- Another file operation has affected the log file

User response: Rerun the db2cklog command ensuring that the specified archived log file or range of archived log files, and the directories in which the log file or files are located, persist for as long as the db2cklog utility is running.

DBT7048E The db2cklog utility determined that the current log file is invalid.

Explanation: You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility. The db2cklog utility examines many different aspects of the specified log file or files and determines whether the files are in a valid format and whether the contents are valid. This message is returned when the db2cklog utility finds that one of the specified log files is invalid and therefore cannot be used for rollforward recovery purposes.

User response:
1. Determine whether you have a secondary copy of the specified archived log file by referring to the value of the logarchmeth2 configuration parameter, which determines how your database server handles secondary archived log files.
2. If you have a secondary copy of the archived log file, perform the following steps:
   a. Verify the validity of the secondary log file by running the db2cklog command against the secondary copy.
   b. If the secondary copy of the log file passes validation, replace the log file that the db2cklog utility cannot read with the valid, secondary copy of the log file.
3. If you have only one copy of the archived log file, or if the db2cklog utility failed to verify the secondary log file, the log file is beyond repair and cannot be used for rollforward recovery purposes. Establish a new, more recent recovery point that does not depend on the unusable log file for rollforward recovery by making a full database backup as soon as possible.

DBT7049E Log file validation failed because the log file header contains an invalid number of log pages. The expected number of pages is expected-number. The actual number of pages is actual-number.

Explanation: You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility. This message is returned when the db2cklog utility finds that the log file header contains an invalid number of log pages. The expected number of pages is expected-number, and the actual number of pages is actual-number. This indicates that the log file is not in a valid format and therefore cannot be used for rollforward recovery purposes.
rollforward recovery using the db2cklog utility.

This message is returned when the db2cklog utility finds that a log file is invalid. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

User response: You do not need to respond to this message. The details are useful for helping IBM support personnel only.

DBT7050E Log file validation failed because both copies of the log file header for the specified log file are invalid.

Explanation: You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.

This message is returned when the db2cklog utility finds that a log file is invalid. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

User response: You do not need to respond to this message. The details are useful for helping IBM support personnel only.

DBT7051E Log file validation failed because the specified log file contains an undetermined error.

Explanation: You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.

This message is returned when the db2cklog utility finds that a log file is invalid. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

User response: You do not need to respond to this message. The details are useful for helping IBM support personnel only.

DBT7052E Log file validation failed because the specified log file contains no log pages.

Explanation: You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.

This message is returned when the db2cklog utility finds that a log file is invalid. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

User response: You do not need to respond to this message. The details are useful for helping IBM support personnel only.

DBT7053E Log file validation failed because the specified log file contains an invalid log page followed by another invalid log page.

Explanation: You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.

This message is returned when the db2cklog utility finds that a log file is invalid. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

User response: You do not need to respond to this message. The details are useful for helping IBM support personnel only.

DBT7054E Log file validation failed because the specified log file contains an invalid log page followed by an outdated log page.

Explanation: You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.

This message is returned when the db2cklog utility finds that a log file is invalid. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

User response: You do not need to respond to this message. The details are useful for helping IBM support personnel only.

DBT7055E Log file validation failed because the specified log file contains an invalid log page followed by a partial log page.

Explanation: You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.

This message is returned when the db2cklog utility finds that a log file is invalid. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

User response: You do not need to respond to this message. The details are useful for helping IBM support personnel only.

DBT7056E Log file validation failed because the specified log file contains an invalid log page followed by a complete log page.

Explanation: You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.

This message is returned when the db2cklog utility finds that a log file is invalid. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

User response: You do not need to respond to this message. The details are useful for helping IBM support personnel only.
finds that a log file is invalid. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

**User response:** You do not need to respond to this message. The details are useful for helping IBM support personnel only.

DBT7057E  Log file validation failed because the specified log file contains a complete log page followed by an invalid log page.

**Explanation:** You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.

This message is returned when the db2cklog utility finds that a log file is invalid. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

**User response:** You do not need to respond to this message. The details are useful for helping IBM support personnel only.

DBT7058E  Log file validation failed because the actual number of log pages in the specified log file does not match the expected number of log pages. Actual number of log pages: actual-number. Expected number of log pages: expected-number.

**Explanation:** You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.

This message is returned when the db2cklog utility finds that a log file is invalid. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

**User response:** You do not need to respond to this message. The details are useful for helping IBM support personnel only.

DBT7059E  Log file validation failed because the check fields in the log file header do not match.

**Explanation:** You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.

This message is returned when the db2cklog utility finds that a log file is invalid. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

**User response:** You do not need to respond to this message. The details are useful for helping IBM support personnel only.

DBT7060E  Log file validation failed because the log file header contains an invalid log file number. The expected log file name is: expected-log-file-name. The number that was expected in the header is: log-file-number. The log file name that was found is: log-file-name.

**Explanation:** You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.

This message is returned when the db2cklog utility finds that a log file is invalid. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

**User response:** You do not need to respond to this message. The details are useful for helping IBM support personnel only.

DBT7065E  Log file validation failed because the current log page is empty and not all log pages of the specified log file have been processed. Current log page: log-page-id. Total number of log pages: total-log-pages.

**Explanation:** You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.

This message is returned when the db2cklog utility finds that a log file is invalid. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

**User response:** You do not need to respond to this message. The details are useful for helping IBM support personnel only.

DBT7066E  Log file validation failed because the log page is marked as truncated but it is not the last page in the specified log file.

**Explanation:** You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.

This message is returned when the db2cklog utility finds that a log file is invalid. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

**User response:** You do not need to respond to this message. The details are useful for helping IBM support personnel only.
message. The details are useful for helping IBM support personnel only.


**Explanation:** You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.

This message is returned when the db2cklog utility finds that a log file is invalid. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

**User response:** You do not need to respond to this message. The details are useful for helping IBM support personnel only.

**DBT7070E**  Log file validation failed because the log record size log-record-size exceeds the maximum log record size in the specified log file.

**Explanation:** You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.

This message is returned when the db2cklog utility finds that a log file is invalid. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

**User response:** You do not need to respond to this message. The details are useful for helping IBM support personnel only.

**DBT7068E**  Log file validation failed because the log record type is invalid. Log record type: log-record-type. The maximum type value allowed is: maximum-log-record-type. The expected type value is: expected-log-record-type.

**Explanation:** You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.

This message is returned when the db2cklog utility finds that a log file is invalid. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

**User response:** You do not need to respond to this message. The details are useful for helping IBM support personnel only.

**DBT7069E**  Log file validation failed because the specified log file contains the invalid log record size log-record-size.

**Explanation:** You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.

This message is returned when the db2cklog utility finds that a log file is invalid. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

**User response:** You do not need to respond to this message. The details are useful for helping IBM support personnel only.

**DBT7072E**  Log file validation failed because the log record size log-record-size is invalid. Log record size: log-record-size. The minimum valid log record size is minimum-log-record-size. The maximum valid log record size is maximum-log-record-size.

**Explanation:** You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.

This message is returned when the db2cklog utility finds that a log file is invalid. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

**User response:** You do not need to respond to this message. The details are useful for helping IBM support personnel only.
DBT7074E  Log file validation failed because an unexpected log record type was found in the specified log file. Log record type found: log-record-type. The expected log record type is: expected-log-record-type.

Explanation: You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility. This message is returned when the db2cklog utility finds that a log file is invalid. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

User response: You do not need to respond to this message. The details are useful for helping IBM support personnel only.

DBT7075E  The db2cklog command failed because an unexpected token, token, was found following the input parameter input-parameter. Supported tokens include: input-parameter-tokens.

Explanation: You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility. This message is returned when an invalid parameter or value is specified with the db2cklog command.

User response: Respond to this message in one of the following ways:
1. [Optional] View the command syntax by running the db2cklog command without specifying any parameters.
2. Rerun the command specifying only supported command syntax.

DBT7076E  The db2cklog command failed because the db2cklog utility could not access the archive log path that was specified with the ARCHLOGPATH parameter. Specified archived log path: archived-log-path.

Explanation: You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility. The db2cklog utility runs with the same authority as the user who ran the db2cklog command. This message can be returned when the person who ran the db2cklog command does not have read permission for the specified path.

User response: Work with a system administrator to acquire read permission for the archived log path.

DBT7077E  The db2cklog command failed because the specified archived log file path is too long. Specified archived log file path: path.

Explanation: You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility. You can specify the absolute or relative path of the archived log files using the ARCHLOGPATH parameter with the db2cklog command. This message is returned when the string passed as the value of the ARCHLOGPATH parameter with the db2cklog command is longer than a defined maximum length. The maximum length of archived log path that can be specified with the ARCHLOGPATH parameter varies, depending on the operating system.

User response: 1. Run the db2cklog command from the directory in which the archived log file is located, and do not use the ARCHLOGPATH parameter at all.
2. If the length of the absolute path of the archived log file is shorter than or equal to the maximum length of the string that can be passed with the ARCHLOGPATH parameter, rerun the db2cklog command specifying the absolute path with the ARCHLOGPATH parameter.
3. If the length of the archived log path relative to the directory in which the db2cklog command is being run is shorter than or equal to the maximum length of the string that can be passed with the ARCHLOGPATH parameter, rerun the db2cklog command specifying the relative path using the ARCHLOGPATH parameter.

DBT7078E  The db2cklog command failed because the current log file does not exist in the directory from which the db2cklog command was run or in the archived log file directory specified with the ARCHLOGPATH parameter. Log file name: log-file-name.

Explanation: You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility. If a path is specified using the ARCHLOGPATH parameter with the db2cklog command, then the db2cklog utility will search for the specified archived log file or range of archived log files in the specified path. However, if the ARCHLOGPATH parameter is not passed to the db2cklog command, the db2cklog utility will search for the specified archived log file or
The db2cklog command failed because of an internal error.

Explanation: You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.

To perform the tasks associated with validating log files, the command depends on various system resources and software components. This message is returned when there is a problem with one of these resources or components.

User response: Perform the log file validation operation again:
1. Review available diagnostic information.
2. Resolve the problem or problems that caused the failure.
3. Rerun the db2cklog command.

If the problem persists, perform the following steps:
1. Collect the following diagnostic information:
   - db2diag logs
   - Contact IBM support.

Log file validation encountered a warning because the specified log file contains an empty log page.

Explanation: You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.

This warning is returned when the db2cklog utility finds information that could indicate that a log file is active. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

User response: You do not need to respond to this message. The details are useful for helping IBM support personnel only.

Log file validation encountered a warning because the specified log file contains a partial log page followed by a complete log page.

Explanation: You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.

This warning is returned when the db2cklog utility finds information that could indicate that a log file is active. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

User response: You do not need to respond to this message. The details are useful for helping IBM support personnel only.

Log file validation encountered a warning because the specified log file contains a partial log page followed by an outdated log page.

Explanation: You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.

This warning is returned when the db2cklog utility finds information that could indicate that a log file is active. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

User response: You do not need to respond to this message. The details are useful for helping IBM support personnel only.

Log file validation encountered a warning because the specified log file contains a partial log page followed by a partial log page.

Explanation: You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.
This warning is returned when the db2cklog utility finds information that could indicate that a log file is active. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

**User response:** You do not need to respond to this message. The details are useful for helping IBM support personnel only.

**DBT7085W** Validation of the specified log file encountered a warning because an outdated log page follows a log page of the following type: log-page-type.

**Explanation:** You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.

This warning is returned when the db2cklog utility finds information that could indicate that a log file is active. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

**User response:** You do not need to respond to this message. The details are useful for helping IBM support personnel only.

**DBT7086W** Log file validation encountered a warning because the specified log file contains a complete log page followed by an invalid log page.

**Explanation:** You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility.

This warning is returned when the db2cklog utility finds information that could indicate that a log file is active. The detailed information printed in this message is useful for helping IBM support personnel investigate how the log file became invalid.

**User response:** You do not need to respond to this message. The details are useful for helping IBM support personnel only.

**DBT7087W** The db2cklog utility found information in the current log file which indicates that the log file might be active.

**Explanation:** You can determine whether an archived log file or a range of archived log files are valid for rollforward recovery using the db2cklog utility. The db2cklog utility should only be used to validate archived log files, not active log files.

Active database log files are the primary and secondary log files that are currently needed for recovery and rollback. Active logs might be open and database logging information might still be written to active logs. Archived database log files are closed and no longer needed for normal processing. These files are retained, or archived, for use in rollforward recovery.

When an attempt is made to run the db2cklog utility against an active log file, this warning is returned because the db2cklog utility might not be able to accurately check the validity of an active log file.

**User response:** Rerun the command specifying only archived log files, not active log files.

**DBT7088W** The following file was not found or could not be executed during diagnostic data collection: file

**Explanation:** When you run the db2support -install command, diagnostic data is collected from several sources on a host machine. Sources for diagnostic data include log files stored on the file system and output returned by executing other, diagnostic commands. If diagnostic data for one of these sources cannot be obtained, this warning is returned.

**User response:** If possible, always run the db2support -install command with root authority. Running the command with root authority ensures that the most complete set of diagnostic data possible is collected.

If you are already running the command with root authority, you do not need to respond to this message. The details are useful for alerting IBM support personnel to missing diagnostic data only.

**DBT7089E** The command syntax specified is unsupported or invalid.

**Explanation:** When running the db2support command included with the installation image, only a subset of the db2support syntax is available for you to use, and the command syntax you include must be specified in a valid form.

**User response:** Issue db2support -h to see the supported syntax, or see "db2support - Problem analysis and environment collection tool command" in the DB2 Information Center, then reissue the command.

**DBT7090E** The host name hostname is invalid.

**Explanation:** A host name cannot be validated as specified and no diagnostic data has been collected for this host.

**User response:** Verify that the host name is spelled correctly. Include only valid host names with the -host option, then reissue the command.

**DBT7091E** The host hostname does not support or allow an ssh connection.

**Explanation:** The db2support command requires an ssh connection to collect diagnostic data from hosts other than the local host. If an ssh connection cannot be established, diagnostic data collection fails.
An ssh connection can fail because ssh is not configured on the host or it is configured in such a way so as to prevent the db2support command from connecting.

**User response:** Verify that ssh is configured correctly, then reissue the command.

**DBT7092W** The db2support command was not invoked with root authority. As a result, some diagnostic data might not get collected.

**Explanation:** When you run the db2support -install command, diagnostic data is collected from several sources on a host machine, such as log files stored on the file system and output returned by executing other, diagnostic commands. If the user invoking the db2support command does not have the required level of authorization to access one of these sources, some diagnostic data will not get collected.

**User response:** For the most complete collection of diagnostic data, always invoke the db2support -install command with root authority. If you cannot run the command with root authority, you do not need to respond to this message. If necessary, this message will alert IBM support personnel that diagnostic data might be missing.

**DBT7093E** The host hostname cannot be reached.

**Explanation:** To collect diagnostic information on a remote host, the db2support command must be able to connect to the host over the network.

There are several reasons why a host cannot be reached:

- The network cabling has been disconnected, the network adapter is unresponsive, or the network configuration is preventing network access.
- The host machine is offline (the host is not powered up or in the process of rebooting, for example).

**User response:** Resolve the problem that is preventing the host from being reachable, then reissue the command.

**DBT7094E** The db2support command cannot be executed as specified.

**Explanation:** You must be the instance owner to invoke the db2support command with the options specified.

**User response:** As instance owner, invoke the db2support command from the DB2 install path.

**DBT7095E** The -install option cannot be specified together with other options except for the -host option.

**Explanation:** When running the db2support command included with the installation image, only a subset of the db2support syntax is available for you to use, and the command syntax you include must be specified in a valid form. When you specify the -install option, it can be specified together with the -host option only.

**User response:** Issue db2support -h to see the supported syntax, or see "db2support - Problem analysis and environment collection tool command" in the DB2 Information Center, then reissue the command.

**DBT7096W** The instance name cannot be determined.

**Explanation:** When you run the db2support -install command, diagnostic data is collected from several sources on a host machine, including output returned by executing the db2instance -list command. If the instance name that must be specified with the db2instance -list command cannot be determined, this warning is returned.

**User response:** You do not need to respond to this message. The details are useful for alerting IBM support personnel to missing diagnostic data only.
Part 14. DQP Messages
Chapter 96. DQP0000 - DQP0499

DQP0001E  The database name must be specified in the command.

Explanation:  The command syntax requires that the database name be specified.

User response:  See the Query Patroller documentation for a detailed description of the command.

Specify the database name and reissue the command.

DQP0002E  Query Patroller server is unable to connect to database databasename.

Explanation:  Query Patroller was not able to establish a connection to the databasename database.

User response:  Ensure that the database name is correct and that the database manager is running.

See the qpdiag.log file for possible causes of this message. If the problem persists, contact IBM Support.

DQP0003E  Unable to start the Query Patroller server.

Explanation:  Query Patroller cannot be started.

User response:  See the qpdiag.log file for possible causes of this message. If the problem persists, contact IBM Support.

DQP0004E  Unable to stop the Query Patroller server.

Explanation:  The Query Patroller server cannot be stopped.

User response:  Verify that the Query Patroller server was actually running when you attempted to stop it.

See the qpdiag.log file for possible causes of this message. If the problem persists, contact IBM Support.

DQP0005E  Query Patroller configuration cannot be found for database databasename.

Explanation:  The configuration cannot be found for database databasename.

User response:  Issue the qpstop command to stop Query Patroller.

DQP0006E  Unable to find the Java Properties file filename.

Explanation:  The required properties file filename cannot be found.

User response:  Check the sqllib/msg/<locale>/qp/directory to determine if the Properties files exist.

If the problem persists, contact IBM Support.

DQP0007E  An internal error error has occurred.

Explanation:  An internal error occurred during processing.

User response:  See the qpdiag.log file for possible causes of this message. If the problem persists, contact IBM Support.

DQP0008E  User username does not have a submitter profile.

Explanation:  Each user is required to have a submitter profile.

User response:  Request that the administrator define a submitter profile for the user.

DQP0009E  File filename cannot be opened.

Explanation:  An error occurred while attempting to open the specified file.

User response:  Ensure that the file exists and that its permissions are correct.

See the qpdiag.log file for possible causes of this message. If the problem persists, contact IBM Support.

DQP0010E  User user-ID does not have an effective submitter profile.

Explanation:  The user user-ID does not have an effective Query Patroller submitter profile. This may occur due to one or more of the following reasons:

- The user may not have a submitter profile.
- The user and/or group submitter profiles(s) belonging to the user may have been suspended.

User response:  Request that the database administrator create a submitter profile or have the submitter profile reactivated.

DQP0011E  The submission preferences dialog cannot be displayed because neither property-file1 nor property-file2 was found.

Explanation:  The properties file cannot be found. As a result, the submission preferences dialog cannot be displayed.

User response:  Verify that the files exist.
DQP0012E The database **databasename** has not been setup for use with Query Patroller.

**Explanation:** To use Query Patroller on a database, Query Patroller needs to be installed on the server that contains the database. During installation, the databases whose queries are to be managed by Query Patroller are chosen and Query Patroller control tables and stored procedures are created in this database. If you need to manage queries of additional databases using Query Patroller, then you must run the `qpsetup` command for each database.

**User response:** Request that an administrator install Query Patroller on the server containing the database, or, if this has already been done, request that the administrator run the `qpsetup` command to setup Query Patroller for the database.

If the `qpsetup` command has been run for the database and the problem persists, check that the file `db2qp` exists in `INSTPATH\function` and the file `db2qpt` exists in `INSTPATH\function\unfenced` on UNIX, or check that the file `db2qp.dll` exists on `INSTPATH\function\unfenced` on Windows. `INSTPATH` is the DB2 instance directory. If these files exist, see the `qpdiag.log` file for possible cause of this message. If problem persists, contact IBM Support.

DQP0019E **SYSADM** authority is required to issue the command `command-name`.

**Explanation:** The command requires SYSADM authority.

**User response:** Request that the system administrator run the command.

DQP0020E Function not supported. Reason code = `reason-code`.

**Explanation:** The statement cannot be processed because it violates a restriction as indicated by the following reason code:

1. The connection codepage cannot be set because the functionality is not yet available.
2. The restriction is unknown.

**User response:** The action corresponding to the reason code is:

1. Update the Query Patroller client to a newer version.
2. If the problem persists, contact IBM Support.

DQP0021E The DB2 server and the Query Patroller server are at a different product level.

**Explanation:** The DB2 server and the Query Patroller server must be on the same product level.

**User response:** Ensure that your DB2 server and Query Patroller server are at the same product level. If you have applied a FixPak on the DB2 server before installing Query Patroller server, ensure that you reapply the FixPak.

See the Query Patroller documentation for a description of the product prerequisites.

DQP0024E An unexpected error `error` occurred.

**Explanation:** An unexpected error occurred.

**User response:** See the `qpdiag.log` file for possible causes of this error.

DQP0025E Invalid timestamp format `format`.

**Explanation:** The timestamp format that the user specified is invalid. The correct timestamp format is `YYYY-MM-DD HH24:MI:SS`.

**User response:** Refer to the Query Patroller documentation for a detailed description of the command.

Specify the correct timestamp format and reissue the command.

DQP0406E Unable to start the Query Controller as the maximum number of `maxnumber` Query Controllers is already running.

**Explanation:** There has been an attempt to start more than the maximum number of allowed Query Controllers.

**User response:** Use one of the Query Controllers that is currently running.

DQP0408E DBADM authority is required to run the command `command-name`.

**Explanation:** The command `command-name` requires DBADM authority.

**User response:** Request that the security administrator grant DBADM authority, and reissue the command.

DQP0409E The Query Patroller system settings do not exist.

**Explanation:** Query Patroller cannot be run when the system settings do not exist.

**User response:** Issue the `qpsetup` command to create the Query Patroller system settings.

See the Query Patroller documentation for a detailed description of the `qpsetup` command.
The submission preferences for the PUBLIC group do not exist.

Explanation: Query Patroller cannot be run when the submission preferences for the PUBLIC group do not exist.

User response: Recreate the submission preferences for the PUBLIC group and issue the qpstart command to start Query Patroller.

The database connection has been reestablished.

Explanation: The database connection has been reestablished.

User response: No action required.

The database connection has been lost. Query Patroller is terminated.

Explanation: The database connection has been lost. As a result, Query Patroller has terminated.

User response: Reestablish the database connection and issue the qpstart command to restart Query Patroller.

Query Patroller was not stopped because there are active queries.

Explanation: Query Patroller was not stopped because there are queued or active queries.

User response: Reissue the command using the FORCE option. If the active queries are forced, they will be in an inconsistent state until Query Patroller is restarted and the query recovery is complete.

The estimated cost of the query exceeds the maximum allowed for the user's submitter profile.

Explanation: The query will be held.

User response: Request that the database administrator run or cancel the query.

The estimated cost of the query exceeds the maximum query cost for the system.

Explanation: The query will be held.

User response: Request that the database administrator run or cancel the query.

The number of queries running has reached the maximum allowed for the system.

Explanation: The query will be placed in the queue.

User response: The query will run automatically when the number of queries running drops below the maximum allowed for the system.

The number of queries running for user username is the maximum number allowed for the submitter profile.

Explanation: The query will be placed in the queue.

User response: The query will run automatically when the number of queries running drops below the maximum allowed for the system.

The number of queries running under query class queryclassnumber is the maximum allowed for the query class.

Explanation: The query will be placed in the queue.

User response: The query will run automatically when the number of queries running drops below the maximum allowed for the query class.

The sum of the estimated cost and the current system workload exceeds the maximum system workload allowed.

Explanation: The sum of the estimated cost of the query submitted and the current system workload is greater than the maximum system workload allowed.

User response: Increase the maximum system workload allowed, if desired.

The estimated cost of the query exceeds the maximum system workload allowed.

Explanation: The query is being held because its estimated cost exceeds the maximum system workload allowed.

User response: Request that the administrator release the query so that it can run, or increase the maximum system workload allowed.

DB2 Query Patroller license cannot be found.

Explanation: A valid license key for DB2 Query Patroller cannot be found or it has expired.

User response: Install a license key for the fully entitled version of the product. You can obtain a license key for the product by contacting your IBM representative or authorized dealer.

Query Patroller is already started.

Explanation: Unable to start Query Patroller as it is already running.

User response: To restart Query Patroller, issue the qpstop command and then issue qpstart.
DQP0424E  No start Query Patroller command was issued.

Explanation:  The start Query Patroller command has not been processed. It must be processed before a stop Query Patroller command is issued.

User response:  Issue a start Query Patroller command, qpstart, and resubmit the current command.

DQP0431E  The DB2 Query Patroller service could not be started. Reason code reason-code.

Explanation:  The explanation corresponding to the reason code is:
1. The service does not exist.
2. The current user does not have proper authority to start or stop the service.
3. The service fails to start.
4. The logon information for the service is not correct.

User response:  The action corresponding to the reason code is:
1. Ensure that the service exists. If the service does not exist, then it may have been removed manually or the installation of DB2 Query Patroller did not complete successfully. In either case, DB2 Query Patroller must be reinstalled.
2. Ensure that the logon information for the service is correct and issue the command again.
3. Issue the command again. If the problem persists, contact your system administrator or see the qpdiag.log file for possible causes of this message.
4. Ensure that the logon information for the service is correct and issue the command again.

DQP0432E  Unable to communicate with the DB2 Query Patroller Java process.

Explanation:  The command successfully created a Java process for DB2 Query Patroller, however, there was a communication error while trying to obtain output. The communication error may occur if a network error exists or if the Java process have been terminated abnormally.

User response:  See the qpdiag.log file for possible causes of this message. If the problem persists, contact IBM Support.
### Chapter 97. DQP1000 - DQP1499

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
<th>Explanation</th>
<th>User response</th>
</tr>
</thead>
<tbody>
<tr>
<td>DQP1001E</td>
<td>The date or time specified is not valid.</td>
<td>The date or time specified is in an incorrect format.</td>
<td>Enter the correct format for the date and time.</td>
</tr>
<tr>
<td>DQP1002E</td>
<td>The start date and time specified must occur before the end date and time.</td>
<td>The specified start date and time must precede the end date and time.</td>
<td>Specify a start date and time that occur before the end date and time.</td>
</tr>
<tr>
<td>DQP1003E</td>
<td>The operation was aborted because it would violate the consistency of the date. SQLSTATE = sqlstate.</td>
<td>The Query Patroller control tables have triggers to protect the consistency of the data contained in them. Such a trigger has been activated through an action that has been attempted. The operation was aborted due to a configuration consistency constraint violation.</td>
<td>Examine the qpschema.sql file to find the trigger that signaled the SQLSTATE. Based on this examination, make the necessary adjustments to prevent the trigger from aborting the action again.</td>
</tr>
<tr>
<td>DQP1004E</td>
<td>A memory allocation error occurred.</td>
<td>There was not enough memory to continue processing.</td>
<td>Ensure that your system has sufficient memory.</td>
</tr>
<tr>
<td>DQP1005E</td>
<td>The time range must not be greater than two years.</td>
<td>The time range specified is greater than two years.</td>
<td>Specify a time range that is within the next two years and reissue the command.</td>
</tr>
<tr>
<td>DQP1006E</td>
<td>SQL statement sqlstmt failed with SQLCODE SQLCODE.</td>
<td>The SQL statement failed.</td>
<td></td>
</tr>
<tr>
<td>DQP1008E</td>
<td>SQL data type datatype is not supported.</td>
<td>The SQL data type is not supported.</td>
<td>See the Query Patroller documentation for information about supported SQL data types.</td>
</tr>
<tr>
<td>DQP1009E</td>
<td>Result destination is too large to view.</td>
<td>The Query Patroller Center and Query Patroller Command Line Processor cannot return your results because the results exceed the maximum size limit of the control table.</td>
<td>Resubmit the query and ensure that the results are returned to your application rather than stored in a result table.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>If your query generated a result table because it was run in the background, resubmit the query with your submission preferences set to wait until results are returned.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>If your query generated a result table because it was held and then run, ask an administrator to raise the query cost of your submitter profile so that you can resubmit the query without having it held.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Alternatively, you can select directly from the result table, but the names of the columns in the result table do not match those of your query and the result table contains an additional column, A0000.</td>
</tr>
<tr>
<td>DQP1010E</td>
<td>File filename cannot be accessed.</td>
<td>The specified file cannot be accessed.</td>
<td>Ensure that the file exists and that the file permissions are correct.</td>
</tr>
<tr>
<td>DQP1011E</td>
<td>User username is not authorized to issue the command.</td>
<td>The command cannot run because the user does not possess the necessary authorization level.</td>
<td>Check the Query Patroller documentation for the required authorization. Request that the database administrator grant the user the required authority and reissue the command.</td>
</tr>
<tr>
<td>DQP1012E</td>
<td>File filename does not exist.</td>
<td>The specified file does not exist.</td>
<td></td>
</tr>
</tbody>
</table>
User response: Ensure that the file exists. If the problem persists, contact IBM Support.

DQP1023E An error occurred while saving to the file filename.

Explanation: Possible causes of this message include:
• The file does not have the correct file permissions.
• The file name does not conform to the file system convention.

User response: Possible solutions include:
• Verify the file permissions.
• Specify the correct file name.

DQP1024W Creation, change, or removal of a query class will not take effect until the Query Patroller server is restarted.

Explanation: You have just created, changed, or deleted a query class. This will change the behavior of how queries are processed by the Query Patroller server. This change in behavior will not occur until the next time Query Patroller is started.

User response: Request that an administrator restart the Query Patroller server by issuing the qpstop command followed by the qpstart command on the computer where the Query Patroller server is running.

DQP1025W The update will not take effect until the Query Patroller server is restarted.

Explanation: The settings will not take effect until the Query Patroller server is restarted.

User response: Restart the Query Patroller server to have the changes take effect.

DQP1026W The update was successful. However, communication with the Query Patroller server has failed.

Explanation: The update was successful. However, the Query Patroller server cannot be contacted to reflect the changes.

User response: Restart the Query Patroller server to see the reflected changes.

DQP1028E The network operation did not complete within a reasonable amount of time. The command cannot be completed.

Explanation: The network operation did not complete within a reasonable amount of time. The command cannot be completed.

User response: Reissue the command when the network is not as busy. If problem persists, contact the system administrator to analyze if there is a network error.
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DQP2020E The path path is invalid.
Explanation: The specified path is invalid.
User response: Verify the path and reissue the command.

DQP2101I Operator profile for user username was added successfully.
Explanation: An operator profile was created for the user.
User response: No action required.

DQP2102I Operator profile for group groupname was added successfully.
Explanation: An operator profile was created for the group.
User response: No action required.

DQP2103I Operator profile for user username was updated successfully.
Explanation: An existing user operator profile was updated.
User response: No action required.

DQP2104I Operator profile for group groupname was updated successfully.
Explanation: An existing group operator profile was updated.
User response: No action required.

DQP2105I Operator profile for user username was removed successfully.
Explanation: A user operator profile was removed.
User response: No action required.

DQP2106I Operator profile for group groupname was removed successfully.
Explanation: A group operator profile was removed.
User response: No action required.

DQP2107E Operator profile for user username does not exist.
Explanation: The user operator profile is not defined.
User response: Ensure that the user name specified is correct and reissue the command.

DQP2108E Operator profile for group groupname does not exist.
Explanation: The group operator profile is not defined.
User response: Ensure that the group name specified is correct and reissue the command.

DQP2109E Operator profile for user username already exists.
Explanation: The user operator profile already exists.
User response: Ensure that the user name specified is unique and reissue the command.

DQP2110E Operator profile for group groupname already exists.
Explanation: The group operator profile already exists.
User response: Ensure that the group name specified is unique and reissue the command.

DQP2111I There are no operator profiles defined.
Explanation: There are no operator profiles defined to display.
User response: No action required.

DQP2112I Query class queryclassID was added successfully.
Explanation: A new query class was defined.
User response: No action required.

DQP2113I Query class queryclassID was updated successfully.
Explanation: An existing query class was updated.
User response: No action required.

DQP2114I Query class queryclassID was removed successfully.
Explanation: A query class was removed.
User response: No action required.

DQP2115E Query class queryclassID does not exist.
Explanation: The query class does not exist.
DQP2116E  The query class with the same maximum query cost value already exists.

Explanation: The query class already exists.
User response: Specify a query class that does not already exist and reissue the command.

DQP2117I  There are no query classes defined.

Explanation: There are no existing query classes. There is no information to list.
User response: No action required.

DQP2118I  Submitter profile for user username was added successfully.

Explanation: A new user submitter profile was created for the user.
User response: No action required.

DQP2119I  Submitter profile for group groupname was added successfully.

Explanation: A new group submitter profile was created for the group.
User response: No action required.

DQP2120I  Submitter profile for user username was updated successfully.

Explanation: An existing user submitter profile was updated.
User response: No action required.

DQP2121I  Submitter profile for group groupname was updated successfully.

Explanation: An existing group submitter profile was updated.
User response: No action required.

DQP2122I  Submitter profile for user username was removed successfully.

Explanation: A user submitter profile was removed.
User response: No action required.

DQP2123I  Submitter profile for group groupname was removed successfully.

Explanation: A group submitter profile was removed.
User response: No action required.

DQP2124E  Submitter profile for user username does not exist.

Explanation: The user submitter profile does not exist.
User response: Specify an existing user name and reissue the command.

DQP2125E  Submitter profile for group groupname does not exist.

Explanation: The group submitter profile does not exist.
User response: Specify an existing group name and reissue the command.

DQP2126E  Submitter profile for user username already exists.

Explanation: The user submitter profile exists.
User response: Specify a unique user name and reissue the command.

DQP2127E  Submitter profile for group groupname already exists.

Explanation: The group submitter profile exists.
User response: Specify a unique group name and reissue the command.

DQP2128I  No submitter profiles exist.

Explanation: There are no submitter profiles. There is no information to list.
User response: No action required.

DQP2129I  The settings for the Query Patroller system were updated successfully.

Explanation: The settings for the Query Patroller system were updated successfully.
User response: No action required.

DQP2130E  Query queryID does not exist.

Explanation: The query ID specified does not exist.
User response: Specify an existing query ID and reissue the command.

DQP2131I  No queries matching the input criteria exist.

Explanation: There is no information to list as there are no queries that match the input criteria.
User response: Modify the input criteria, if necessary.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Explanation</th>
<th>User response</th>
</tr>
</thead>
<tbody>
<tr>
<td>DQP2132I</td>
<td>New submission preferences for user <em>username</em> were added.</td>
<td>New user submission preferences were created for the user.</td>
<td>No action required.</td>
</tr>
<tr>
<td>DQP2133I</td>
<td>Submission preferences for user <em>username</em> were updated successfully.</td>
<td>Existing submission preferences were updated.</td>
<td>No action required.</td>
</tr>
<tr>
<td>DQP2134I</td>
<td>Submission preferences for user <em>username</em> were removed. This user will use the default submission preferences.</td>
<td>An individual’s submission preferences were removed.</td>
<td>No action required.</td>
</tr>
<tr>
<td>DQP2135E</td>
<td>Submission preferences for user <em>username</em> already exist.</td>
<td>The user submission preferences already exist.</td>
<td>Specify a unique user name and reissue the command.</td>
</tr>
<tr>
<td>DQP2136I</td>
<td>All result tables were removed successfully.</td>
<td>All of the result tables were dropped.</td>
<td>No action required.</td>
</tr>
<tr>
<td>DQP2137I</td>
<td>There are no existing result tables to drop.</td>
<td>There are no result tables to drop.</td>
<td>No action required.</td>
</tr>
<tr>
<td>DQP2138I</td>
<td>The result tables belonging to user <em>username</em> were removed successfully.</td>
<td>The result tables were dropped.</td>
<td>No action required.</td>
</tr>
<tr>
<td>DQP2139I</td>
<td>There are no result tables belonging to user <em>username</em>. Nothing was removed.</td>
<td>There are no result tables to drop.</td>
<td>No action required.</td>
</tr>
<tr>
<td>DQP2140I</td>
<td>Result tables for query <em>queryID</em> were removed successfully.</td>
<td>The result tables were dropped.</td>
<td>No action required.</td>
</tr>
<tr>
<td>DQP2141I</td>
<td>Result table for query <em>queryID</em> does not exist. Nothing was removed.</td>
<td>The result table for the specified query does not exist.</td>
<td>No action required.</td>
</tr>
<tr>
<td>DQP2142E</td>
<td>Query <em>queryID</em> is not in the correct state.</td>
<td>The query is not in the correct state to execute the command.</td>
<td>Verify the state of the query and reissue the command.</td>
</tr>
<tr>
<td>DQP2143E</td>
<td>Invalid time unit <em>timeunit</em> specified for parameter <em>parametername</em>.</td>
<td>The time unit specified for the parameter is invalid.</td>
<td>See the Query Patroller documentation for a detailed description of the command. Specify the correct time unit and reissue the command.</td>
</tr>
<tr>
<td>DQP2144E</td>
<td>The parameter <em>parametername</em> specified is not correct.</td>
<td>The parameter specified is not correct.</td>
<td>Check the Query Patroller documentation for a detailed description of the command. Correct the syntax and reissue the command.</td>
</tr>
<tr>
<td>DQP2145E</td>
<td>The parameter <em>parametername</em> must be specified.</td>
<td>The command syntax specified is not correct.</td>
<td>Check the Query Patroller documentation for a detailed description of the command. Correct the syntax and reissue the command.</td>
</tr>
<tr>
<td>DQP2146E</td>
<td>An incorrect value <em>value</em> was specified for the parameter <em>parametername</em>.</td>
<td>An incorrect value was specified for the parameter.</td>
<td>Check the Query Patroller documentation for a detailed description of the command.</td>
</tr>
</tbody>
</table>

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command. Correct the parameter value and reissue the command.

**DQP2147E**  Missing value for parameter *parametername*.

**Explanation:** A required parameter value is missing from the command.

**User response:** Check the Query Patroller documentation for a detailed description of the command. Include the necessary parameter value and reissue the command.

**DQP2148E**  Unexpected keyword *keyword*, expected *keyword might be* *keyword*.

**Explanation:** A keyword that does not apply to the command was encountered.

**User response:** Check the Query Patroller documentation for a detailed description of the command. Correct the syntax and reissue the command.

**DQP2149E**  Unexpected end of command, expected value might include *value*.

**Explanation:** A syntax error in the command was detected.

The command cannot be processed.

**User response:** See the Query Patroller documentation for a detailed description of the command. Correct the syntax and reissue the command.

**DQP2150E**  The parameter *parametername* cannot be specified more than once.

**Explanation:** The parameter *parametername* is specified more than once.

**User response:** Check the Query Patroller documentation for a detailed description of the command. Correct the syntax and reissue the command.

**DQP2151E**  There is no default value for parameter *parametername*.

**Explanation:** The parameter does not have a default value.

**User response:** Check the Query Patroller documentation for a detailed description of the command. Specify a valid parameter value and reissue the command.

**DQP2152E**  The value of parameter *parametername* cannot be null.

**Explanation:** A value must be specified for parameter *parametername*.

**User response:** Check the Query Patroller documentation for a detailed description of the command. Provide a value for the parameter and reissue the command.

**DQP2153E**  The value of parameter *parametername* must be surrounded by single quotation marks.

**Explanation:** The parameter must be surrounded by single quotation marks.

**User response:** Check the Query Patroller documentation for a description of how to run a command. Surround the parameter value with single quotation marks and reissue the command.

**DQP2154E**  The query is no longer running and the query status is unknown.

**Explanation:** The query is not running, but its final status cannot be determined. It may have completed successfully or failed. This is an abnormal situation which may have been caused by the following scenarios:

- The Query Patroller server crashed, or was shut down with the FORCE option, terminated because of a power outage, or its connection to DB2 was forced off while this query was running.
- The DB2 server crashed, was shut down with the force option, or terminated because of a power outage, while this query was queued or running.
- The Query Patroller server did not respond within an expected time frame when DB2 attempted to report query completion status.

**User response:** Examine the client application that submitted the query for the query status and results. Resubmit the query if necessary.

**DQP2155E**  User *username* is suspended.

**Explanation:** The user is not authorized to submit queries, nor perform any Query Patroller commands.

**User response:** Request that the database administrator reactivate the user submitter profile.

**DQP2156E**  Communication with the Query Patroller server has timed out.

**Explanation:** The DB2 server cannot connect to or communicate with the Query Patroller server within the expected time frame.

**User response:** The Query Patroller server may be
temporarily overloaded, leading to a slower than normal response time. Check the system workload and ensure that the Query Patroller system is tuned properly for optimal performance. Resubmit the query if necessary.

If the problem persists, contact IBM Service.

DQP2157E Submission preferences for user username do not exist.

Explanation: There are no existing submission preferences for the user.

User response: Create submission preferences for the user or specify a user name that has existing submission preferences.

DQP2158E The submission preferences belonging to user username cannot be copied onto itself.

Explanation: The submission preferences cannot be copied onto itself.

User response: Specify a different username and reissue the command.

DQP2159I The query information for query queryID has been removed.

Explanation: There is no existing information related to the queryID query.

User response: No action required.

DQP2160I The historical query information for query queryID has been removed.

Explanation: There is no existing historical information related to the queryID query.

User response: No action required.

DQP2161I All query information has been removed.

Explanation: The query information has been removed.

User response: No action required.

DQP2162I All historical query information has been removed.

Explanation: The historical query information has been removed.

User response: No action required.
DQP2170I  Number result tables older than timeunit have been dropped.

Explanation: The result tables have been removed because they were older than timeunit.

User response: No action required.

DQP2171I  Query Patroller has processed number queries and historical data was generated for number queries successfully.

Explanation: Historical data was generated for the number of queries identified.

User response: If the number of queries processed and the number of queries that were generated for historical data is the same, no action is required.

If this is not the case, see the qpdiag.log for possible causes of this message. If the problem persists, contact IBM Support.

DQP2172I  The query class update may take a long time. Currently queued and newly submitted queries will remain queued until the process is completed.

Explanation: The query class update may take a long time to complete.

User response: No action required.

DQP2173E  A query class update is in progress. Another update cannot be performed at this time.

Explanation: A query class update cannot be performed while another query class update is in progress.

User response: Reissue the command after the current update is complete.

DQP2174I  The maximum number of query classes has been exceeded.

Explanation: The maximum number of query classes has been reached. New query classes cannot be created.

User response: Decrease the number of existing query classes.

DQP2175I  A query class with the same maximum query cost value already exists or the maximum number of query classes has been exceeded.

Explanation: The maximum number of query classes has been reached. New query classes cannot be created. Query classes must have a unique query cost value.

User response: Decrease the number of existing query classes and ensure that all query classes have a unique query cost value.

DQP2176E  The length of the keyword keyword exceeds the maximum length allowed.

Explanation: The length of the specified keyword has exceeded the maximum length allowed.

User response: Ensure that the keyword is valid and reissue the command.

DQP2177E  The public submitter profile cannot be specified.

Explanation: By default, the user's own submitter profile would be used automatically, if it exists. If it does not exist, the user can specify a group submitter profile that the user belongs to.

User response: Reissue the command and specify a group submitter profile, or do not specify a submitter profile.

DQP2178E  An invalid user name or password was entered.

Explanation: An invalid user name or password was entered.

User response: Reissue the command with the correct user name and password.

DQP2179I  Historical query information does not exist.

Explanation: Unable to remove historical information for some queries as the information does not exist.

User response: No action required.

DQP2180W  Query queryid is now running in the background.

Explanation: The specified query is now running in the background.

User response: No action required.

DQP2181E  The query was aborted because the number of rows in the result set is larger than the number of rows that can be accommodated in the result table.

Explanation: Query Patroller attempted to create a result table for this query because it was either run in the background or held and then released from held state. The submission preferences of this submitter stated that in the event the result set is longer than the maximum allowed, no result should be returned. Query Patroller aborted the query when it detected that
the number of rows returned by the query would exceed the maximum size of a result table specified in the submitter profile under which this query was submitted.

**User response:** Modify the query to reduce the number of rows it returns or request that an administrator or operator increase the number of rows allowed for a result table. If the query was run in the background, try waiting for the result instead of releasing the application.

---

**DQP2182I** Held query *queryid* has been run.

**Explanation:** The specified query is running in the background.

**User response:** No action required.

---

**DQP2183E** Query *queryid* cannot be run in the background.

**Explanation:** The specified query cannot be run in the background.

**User response:** See the Query Patroller documentation for the class of queries that can be run in the background.

---

**DQP2184E** Result tables older than *time-unit* do not exist.

**Explanation:** The result tables do not exist. Nothing was removed.

**User response:** No action required.

---

**DQP2185I** Query information older than *time-value* does not exist.

**Explanation:** The query information cannot be removed as it does not exist.

**User response:** No action required.

---

**DQP2186I** Historical query information older than *time-value* does not exist.

**Explanation:** The historical query information cannot be removed as it does not exist.

**User response:** No action required.

---

**DQP2187W** Submission preferences for user *username* were added successfully. However, communication with the Query Patroller server has failed. The changes have not been reflected on the Query Patroller server.

**Explanation:** The new submission preferences for the user were added successfully. However, the Query Patroller server cannot be contacted to reflect the changes.

**User response:** Restart the Query Patroller server to see the reflected changes.

---

**DQP2188W** Submission preferences for user *username* were updated successfully. However, communication with the Query Patroller server has failed. The changes have not been reflected on the Query Patroller server.

**Explanation:** The submission preferences for the user were updated successfully. However, the Query Patroller server cannot be contacted to reflect the changes.

**User response:** Restart the Query Patroller server to see the reflected changes.

---

**DQP2189W** Submitter profile for user *username* was added successfully. However, communication with the Query Patroller server has failed. The changes have not been reflected on the Query Patroller server.

**Explanation:** The submitter profile for the user was added successfully. However, the Query Patroller server cannot be contacted to reflect the changes.

**User response:** Restart the Query Patroller server to see the reflected changes.

---

**DQP2190W** Submitter profile for user *username* was updated successfully. However, communication with the Query Patroller server has failed. The changes have not been reflected on the Query Patroller server.

**Explanation:** The submitter profile for the user was updated successfully. However, the Query Patroller server cannot be contacted to reflect the changes.

**User response:** Restart the Query Patroller server to see the reflected changes.

---

**DQP2191W** Submitter profile for group *groupname* was added successfully. However, communication with the Query Patroller server has failed. The changes have not been reflected on the Query Patroller server.

**Explanation:** The submitter profile for the group was added successfully. However, the Query Patroller server cannot be contacted to reflect the changes.

**User response:** Restart the Query Patroller server to see the reflected changes.
DQP2192W  Submitter profile for group *groupname* was updated successfully. However, communication with the Query Patroller server has failed. The changes have not been reflected on the Query Patroller server.

**Explanation:** The new submitter profile for the group was updated successfully. However, the Query Patroller server cannot be contacted to reflect the changes.

**User response:** Restart the Query Patroller server to see the reflected changes.

---

DQP2193W  The settings for the Query Patroller system were updated successfully. However, communication with the Query Patroller server has failed. The changes have not been reflected on the Query Patroller server.

**Explanation:** The settings for the Query Patroller system were updated successfully. However, the Query Patroller server cannot be contacted to reflect the changes.

**User response:** Restart the Query Patroller server to see the reflected changes.

---

DQP2194W  Submission preferences for user *username* were removed successfully. However, communication with the Query Patroller server has failed. The changes have not been reflected on the Query Patroller server.

**Explanation:** The submission preferences for the user were removed successfully. However, the Query Patroller server cannot be contacted to reflect the changes.

**User response:** Restart the Query Patroller server to see the reflected changes.

---

DQP2195W  Submitter profile for user *username* was removed successfully. However, communication with the Query Patroller server has failed. The changes have not been reflected on the Query Patroller server.

**Explanation:** The submitter profile for the user was removed successfully. However, the Query Patroller server cannot be contacted to reflect the changes.

**User response:** Restart the Query Patroller server to see the reflected changes.

---

DQP2196W  Submitter profile for group *groupname* was removed successfully. However, communication with the Query Patroller server has failed. The changes have not been reflected on the Query Patroller server.

**Explanation:** The submitter profile for the group was removed successfully. However, the Query Patroller server cannot be contacted to reflect the changes.

**User response:** Restart the Query Patroller server to see the reflected changes.

---

DQP2197I  Query *queryID* cannot be removed.

**Explanation:** The query information cannot be removed.

**User response:** No action required.

---

DQP2198E  Unable to display or file result sets for query *queryID*. The result sets do not exist.

**Explanation:** The result sets for the query do not exist. This error might occur when the query is a non-SELECT statement, the result sets were manually dropped, or when a client application is specified as the result destination.

**User response:** No action required.

---

DQP2199W  The purge period specified for managed queries is less than the purge period specified for the result tables. The associated result table will be deleted when the managed query is deleted.

**Explanation:** The purge period specified for managed queries is less than the purge period specified for the result tables. When a managed query is deleted, the associated result table is also deleted; therefore the purge period for the result tables is ignored.

**User response:** Set the purge period for the managed queries to be greater than or equal to the purge period for the result tables.

---

DQP2200W  The purge period specified for historical queries is less than the purge period specified for the managed queries. The associated managed query will be deleted when the historical query is deleted.

**Explanation:** When a historical query is deleted the associated managed query is also deleted, therefore, the purge period for the managed queries is ignored.

**User response:** Set the purge period for the historical queries to be greater than or equal to the purge period for the managed queries.
The historical analysis data generator was stopped by a user. Query Patroller processed `number` queries and historical data was generated for `number` queries successfully before it was stopped.

**Explanation:** The GENERATE HISTORICAL_DATA STOP command was issued in a separate process. Historical data was generated for the number of queries identified.

**User response:** No action required.

An attempt to stop the generation of historical data is in progress.

**User response:** No action required.

Query Patroller is not generating historical data at this time.

**Explanation:** Query Patroller is not able to issue the GENERATE HISTORICAL_DATA STOP command as historical data is not generating data at this time.

**User response:** No action required.

Only the query submitter can run a query in the background.

**Explanation:** To run a query in the background, you must be the submitter who submitted the query originally.

**User response:** See the Query Patroller documentation for a detailed description of running a query in the background.

Value for parameter `parameter1` must be set as the parameter `parameter2` was set to `parameter2-value`.

**Explanation:** The value for `parameter1` must be set.

**User response:** Specify a value for parameter `parameter1` and reissue the command.

The command completed successfully.

**Explanation:** No errors were encountered during the execution of this command.

**User response:** No action required.

The length of the specified command exceeds the maximum length allowed.

**Explanation:** The command length is too long.

**User response:** See the Query Patroller documentation for a detailed description of the command. Reissue the command.

Releasing this query will cause the system to run a workload that exceeds the maximum system workload cost.

**Explanation:** The query that is being released has a cost that exceeds the system workload cost. Once it has been release from held state, Query Patroller will queue it until there are no other queries queued.

This does not guarantee that there will be no other queries running at the same time as this query.

**User response:** No action required.

The queue query no longer exists; the query status is now aborted.

**Explanation:** The query was queued and had not started running, but now it no longer exists. This is an abnormal situation which may have been caused by one of the following scenarios:
- The DB2 server crashed, was shut down with the force option, or terminated because of a power outage while the query was queued.
- The Query Patroller sever did not respond within an expected time frame when DB2 attempted to report query status.

**User response:** Examine the client application that submitted the query for the query status and results. Resubmit the query if necessary.

Unable to run Historical Analysis Data Generator as it is currently running.

**Explanation:** Only one Historical Analysis Data Generator can run on a database at one time.

**User response:** Wait until the currently running Historical Analysis Data Generator completes before trying to run it again. Or stop the currently running Historical Analysis Data Generator by issuing the GENERATE HISTORICAL_DATA STOP Query Patroller command.

The result of the specified query was saved successfully to the file `filename`, however, the utility encountered warnings. Refer to the message file `message-file` for more details.

**Explanation:** DB2 Query Patroller uses the DB2 export utility to save or file the query result. The result was exported successfully to the file, however DB2 export generated a message file `message-file` containing warnings.

**User response:** Refer to the message file to view the warnings. For more information about the DB2 export utility, refer to the DB2 Information Center.
DQP2213W  One or more result tables could not be removed.

Explanation: One or more result tables could not be removed. This error may occur when a user has insufficient authority.

User response: Refer to the qpuser.log file to find out which result tables could not be removed and to determine possible causes of this message.

DQP2214E  User username does not have the privilege to remove the result table for query queryID.

Explanation: The result table cannot be removed because the user does not have sufficient authority.

User response: Refer to the Query Patroller documentation for the authorization requirements for dropping a result table.

DQP2215E  Query Patroller cannot release query queryid from held state because DYN_QUERY_MGMT is disabled.

Explanation: To release a query from held state, the database configuration parameter DYN_QUERY_MGMT needs to be enabled. It is currently disabled.

User response: Have an administrator update the database configuration parameter DYN_QUERY_MGMT to enabled state and retry releasing the query from held state.

DQP2216E  Query Patroller cannot run query queryid in the background because DYN_QUERY_MGMT is disabled.

Explanation: To run a query in the background, the database configuration parameter DYN_QUERY_MGMT needs to be enabled. It is currently disabled.

User response: Have an administrator update the database configuration parameter DYN_QUERY_MGMT to enabled state and retry running the query in the background.

DQP2217E  Query Patroller was unable to generate historical data due to an error. SQLCODE = sqlcode.

Explanation: An error occurred while trying to generate historical data. No historical data was generated.

User response: See the qpdiag.log file for possible causes of this message. If the problem persists, contact IBM Support.
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DQP2505I The database partition group dbpartitiongroupname does not exist. The qpsetup command will attempt to create a new one.

Explanation: The specified database partition group does not exist.

User response: The qpsetup command will attempt to create a new database partition group.

DQP2506E One or more Query Patroller control tables already exist.

Explanation: One or more Query Patroller control tables were found. The qpsetup command cannot proceed.

User response: Verify if the control tables are valid and complete. If you wish to replace the control tables with new control tables, reissue the qpsetup command using the REPLACE option.

DQP2507E The table space tablespacename does not exist. The qpsetup command cannot proceed.

Explanation: The specified table space name does not exist.

User response: Ensure that the table space name is correct and reissue the command.

DQP2508E The schema schemaname already exists. The command commandname cannot proceed.

Explanation: The specified schema name already exists.

User response: Specify a unique schema name and reissue the command.

DQP2516E Failed to bind package package-name, reason reason.

Explanation: An attempt to bind a package failed.

User response: If the failure occurred due to an SQLCODE, see the Message Reference documentation for more information. If the problem persists, contact IBM Support.

DQP2518E The Query Patroller control tables do not exist.

Explanation: The Query Patroller control tables cannot be found in the database specified.

User response: Issue the qpsetup command to create the Query Patroller control tables.

DQP2519E Failed to update the DB2QPQ_SYSTEM table with the result table space information. Reason = reason.

Explanation: The qpsetup command attempted to update the QP_SYSTEM table with the result table space, however the update failed.

User response: Analyze the reason, correct the problem, and reissue the command. If the problem persists, contact IBM Support.

DQP2520W The schema schema-name already exists. The qpsetup command will attempt to create Query Patroller control tables using this schema.

Explanation: The schema already exists in the specified database. The qpsetup command will attempt to create Query Patroller control tables in this schema. DB2 tables existing in this schema will not be replaced unless the REPLACE option is specified in the qpsetup command.

User response: If any existing tables have the same name as the Query Patroller control tables, move them to a different schema.

DQP2521E The table space container container-path is already in use.

Explanation: The specified table space container path is already in use by another application.

User response: Verify the path and reissue the command.

DQP2522E The qpsetup command failed. All database objects created by this command were cleaned up.

Explanation: The_qpsetup command failed. All database objects, such as table spaces, tables, functions, and procedures, were cleaned up.

User response: Refer to the qpsetup.log file for possible causes of this message. If the problem persists, contact IBM Support.

DQP2523I The qpsetup command completed successfully.
<table>
<thead>
<tr>
<th>DQP2526I • DQP2613W</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
</tr>
<tr>
<td><strong>User response:</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DQP2526I Package package-name was bound successfully.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong> Query Patroller bound the package successfully.</td>
</tr>
<tr>
<td><strong>User response:</strong> No action required.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DQP2604I The cleanup of the Query Patroller Version 7 control tables has completed successfully.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong> The Query Patroller migration cleanup completed successfully and all Version 7 Query Patroller tables, view, and triggers have been dropped.</td>
</tr>
<tr>
<td><strong>User response:</strong> No action required.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DQP2605E The cleanup of the Query Patroller Version 7 control tables has failed.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong> The Query Patroller migration tool encountered fatal error while cleaning the Version 7 Query Patroller database objects. The cleanup did not complete successfully.</td>
</tr>
<tr>
<td><strong>User response:</strong> Refer to the qpmigrate.log file for possible causes of this message.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DQP2606W The cleanup of the Query Patroller Version 7 control tables has completed with warnings.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong> The Query Patroller migration cleanup encountered warnings while deleting the Version 7 Query Patroller tables. However, it may have completed successfully. There may have been errors migrating users and/or parts of the system configuration.</td>
</tr>
<tr>
<td><strong>User response:</strong> Refer to the qpmigrate.log file for possible causes of this message.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DQP2607I Migration of Query Patroller control tables from Version 7 to Version 8 has completed successfully.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong> The Query Patroller migration tool completed successfully.</td>
</tr>
<tr>
<td><strong>User response:</strong> No action required.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DQP2608E Migration of Query Patroller control tables from Version 7 to Version 8 has failed.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong> The Query Patroller Migration tool encountered fatal errors while migrating the database.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DQP2609W Migration of Query Patroller control tables from Version 7 to Version 8 has completed with warnings.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong> The Query Patroller Migration tool encountered warnings while migrating the database, however, the migration may have completed successfully. There may have been errors migrating users and/or parts of the system configuration.</td>
</tr>
<tr>
<td><strong>User response:</strong> Refer to the qpmigrate.log file for possible causes of this message.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DQP2610E Stop Query Patroller server before proceeding.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong> The Query Patroller server must be stopped before the Query Patroller migration tool can be run.</td>
</tr>
<tr>
<td><strong>User response:</strong> Issue the qpstop command to stop the Query Patroller server.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DQP2611W User profile for user username has not been migrated. SQLCODE = SQLCODE.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong> The user has not been migrated.</td>
</tr>
<tr>
<td><strong>User response:</strong> Refer to the SQLCODE for possible causes of this message.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DQP2612I Migration of Query Patroller user and group profiles has completed successfully.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong> The data from the Version 7 Query Patroller table IWM003_USER_PROF has been migrated to the Version 8 Query Patroller tables SUBMITTER_PROFILE, OPERATOR_PROFILE, and SUBMISSION_PREFERENCES.</td>
</tr>
<tr>
<td><strong>User response:</strong> No action required.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DQP2613W Migration of Query Patroller user and group profiles has completed with warnings.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong> The Query Patroller migration tool encountered warnings while migrating from Version 7 Query Patroller table IWM003_USER_PROF to the Version 8 Query Patroller tables SUBMITTER_PROFILE, OPERATOR_PROFILE, and SUBMISSION_PREFERENCES.</td>
</tr>
<tr>
<td><strong>User response:</strong> Refer to the qpmigrate.log for a list of users that were not migrated. If the user name conflict was expected, then no action is required. Otherwise, you may copy the data manually into the table.</td>
</tr>
</tbody>
</table>
Migration of Query Patroller user and group profiles has failed.

**Explanation:** There was an error reading data from the Version 7 Query Patroller tables and the migration of user and group profiles information could not continue. The Version 7 Query Patroller tables may be corrupt or there was an I/O error while reading from the Version 7 Query Patroller tables.

**User response:** Ensure that all Version 7 Query Patroller tables are present with valid data.

Migration of the Query Patroller system configuration has completed successfully.

**Explanation:** The data from Version 7 Query Patroller table IWM003_JOB_QUEUE and IWM003_SYS_PARMS have been migrated to the Version 8 Query Patroller tables QUERY_CLASS and QP_SYSTEM successfully.

**User response:** No action required.

Migration of the Query Patroller system configuration has completed with warnings.

**Explanation:** The Query Patroller migration tool encountered warnings while migrating from Version 7 Query Patroller tables IWM003_JOB_QUEUE and IWM003_SYS_PARMS to the Version 8 Query Patroller tables QUERY_CLASS and QP_SYSTEM. It is possible that various job queues already exist in the table.

**User response:** Refer to the qpmigrate.log file for a list of job queues that were not migrated. If the job queue conflict was expected, then no action is needed. Otherwise, you may copy the data manually into the table.

Migration of the Query Patroller system configuration has failed.

**Explanation:** There was an error reading data from the Version 7 Query Patroller tables and the migration of system configuration information could not continue. It is possible that the Version 7 Query Patroller tables are corrupt or there was an I/O error while reading from the Version 7 Query Patroller tables.

**User response:** Ensure that all the Version 7 Query Patroller tables are present with valid data.

Version 7 Query Patroller job queue ID *queueID* failed to migrated because it has a maximum query cost of 0.

**Explanation:** The Version 7 job queue has a maximum query cost of 0. No queries will belong to a query class with a maximum query cost of 0, therefore the job queue is not migrated.

**User response:** No action required.
Chapter 100. DQP3000 - DQP3499

DQP3000E  The maximum number of queries for this query class must not be greater than that of the Query Patroller System.

Explanation: The maximum number of queries may be set for a query class and for the Query Patroller system itself. No query class can exist with a maximum of queries larger than that of the Query Patroller system.

User response: Lower the maximum number of queries for the query class or increase the maximum number of queries for the Query Patroller system before increasing the maximum number of queries for the query class.

DQP3001E  The maximum query cost for this query class must not be greater than the maximum workload cost of the Query Patroller System.

Explanation: No query class can exist with a maximum query cost larger than the maximum workload cost of the Query Patroller system.

User response: Lower the maximum query cost for the query class or increase the maximum workload cost for the Query Patroller system before increasing the maximum query cost for the query class.

DQP3002E  One or more query classes exist with the maximum number of queries greater than the value specified for the Query Patroller System.

Explanation: The maximum number of queries may be set for a query class and for the Query Patroller system itself. No query class can exist with a maximum number of queries larger than that of the Query Patroller system.

User response: Increase the maximum number of queries for the Query Patroller system or decrease the maximum number of queries for each query class that is preventing the system maximum from being lowered.

DQP3003E  One or more query classes exist with a maximum query cost greater than the value specified for the maximum workload cost of the Query Patroller System.

Explanation: No query class can exist with a maximum query cost larger than the maximum workload cost of the Query Patroller system.

User response: Increase the maximum workload cost for the Query Patroller system or decrease the maximum query cost for each query class that is preventing the system maximum from being lowered.

DQP3010E  The public submitter profile cannot be removed.

Explanation: The public submitter profile cannot be removed.

User response: No action required.

DQP3011E  A user submitter profile name cannot be specified.

Explanation: The command does not accept a user submitter profile name to be specified. By default, the user's own submitter profile would be used automatically, if it exists. If it does not exist, the user can specify a group submitter profile that the user belongs to.

User response: Reissue the command and specify a group submitter profile, or do not specify a submitter profile.

DQP3012E  The public submission preferences cannot be removed.

Explanation: The public submission preferences cannot be removed.

User response: No action required.
Part 15. EXP Messages

This section contains the Explain (EXP) messages. The messages are listed in numeric sequence.
Chapter 101. EXP0000 - EXP0499

EXP0001W  An unexpected error occurred processing or applying an optimization profile or embedded optimization guideline. Line number line-number, character number character-number.

Explanation: An error has occurred which is due to a system error. The processing of the SQL statement was successful but the optimization profile could not be applied.

User response: If trace was active, invoke the Independent Trace Facility at the operating system command prompt. Then contact your technical service representative with the following information:
- Problem description
- Contents of the EXPLAIN_DIAGNOSTICS and EXPLAIN_DIAGNOSTICS_DATA tables
- The db2diag.log
- Trace file if possible

EXP0002W  There was insufficient memory to process the optimization profile or embedded optimization guideline.

Explanation: There was insufficient memory available to allow complete processing of the optimization profile.

User response: Increase the size of application heap memory and recompile the statement.

EXP0003W  The OPT_PROFILE table in the SYSTOOLS schema is either missing or has an unexpected format.

Explanation: The optimizer attempted to read an optimization profile from the OPT_PROFILE table in the SYSTOOLS schema, but was unsuccessful. Either the optimizer could not find the table, or the table had an unexpected format and could not be read.

User response: Create the table with the proper format and recompile the statement.

EXP0004W  The optimization profile or embedded optimization guideline is either not well-formed or is invalid. Line number line-number, character number character-number.

Explanation: An optimization profile could not be processed by the optimizer because it had an invalid format.

User response: Ensure that the XML is well-formed and valid with respect to the current optimization profile schema and recompile the statement.

EXP0005W  The optimization profile could not be processed or found in the OPT_PROFILE table in the SYSTOOLS schema.

Explanation: The optimization profile in effect for the statement could not be found in the OPT_PROFILE table in the SYSTOOLS schema.

User response: Ensure that the optimization profile identified by the OPTPROFILE bind option or the CURRENT OPTIMIZATION PROFILE special register is contained in the table and recompile the statement.

EXP0006W  The optimization profile cache is out of memory, performance may be impacted.

Explanation: The specified optimization profile could not be inserted into the optimization profile cache. This means that it will need to be reread from the SYSTOOLS.OPT_PROFILE table for subsequent uses. This could lead to a degradation in SQL compile time performance.

User response: Use the catalogcache_sz configuration parameter to increase the size of the profile cache.

EXP0007W  The VALUE attribute of the REOPT element has the invalid value REOPT-value. Line number line-number, character number character-number.

Explanation: The value REOPT-value specified for the VALUE attribute of the REOPT element at the line number and character number is invalid.

User response: Replace the invalid REOPT value with a valid one and recompile the statement. See the optimization guidelines reference guide for a list of valid optimization guideline elements.

EXP0008W  Invalid access request. The table reference identified by the TABID attribute could not be found. Line number line-number, character number character-number.

Explanation: The correlation name specified by the TABID attribute could not be mapped to one of the correlation names in the optimized version of the statement.

User response: Replace the invalid correlation name with a valid one and recompile the statement.
EXP0009W  Invalid access request. The table reference identified by the TABLE attribute could not be found. Line number line-number, character number character-number.

Explanation: The exposed or extended name specified by the TABLE attribute could not be mapped to any of the exposed or extended names given to tables referenced in the statement.

User response: Replace the invalid exposed or extended name with a valid one and recompile the statement.

EXP0010W  Invalid access request. The table reference identified by the TABLE attribute is not unique. Line number line-number, character number character-number.

Explanation: The exposed or extended name specified by the TABLE attribute is not permitted to map to more than one table reference.

User response: Do one of the following and then recompile the statement:

- Modify the statement to make the exposed or extended name unique.
- Use the unique correlation name associated with the table reference in the optimized statement.

EXP0011W  Invalid access request. The TABLE and TABID fields must identify the same table reference. Line number line-number, character number character-number.

Explanation: An access request can identify a table reference using either the TABID or TABLE attribute. If both are provided, they must identify the same table reference.

User response: Drop the attribute that identifies the wrong table reference or ensure that both attributes refer to the same table reference and recompile the statement.

EXP0012W  Invalid access request. The index index-name could not be found. Line number line-number, character number character-number.

Explanation: An index scan, list prefetch, or index ANDing access request specified an index that is not defined for the table.

User response: Replace the invalid index name with the name of an index that is defined for the table and recompile the statement.

EXP0013W  Invalid index ANDing access request. Block indexes must appear before record indexes. Line number line-number, character number character-number.

Explanation: An optimization guideline specified an index ANDing access request that did not have all references to block indexes before references to record indexes. For star join index ANDing access requests, this requirement applies to fact table index accesses on semijoin inners.

User response: Replace the invalid index ANDing access request with a valid one, and recompile the statement.

EXP0014W  Invalid access or join request. An element's data length exceeds DB2 maximum for that type and cannot be applied. Element element, line number line-number, character number character-number.

EXP0015W  Invalid join request. Join refers to tables that are not in the same FROM clause. Line number line-number, character number character-number.

Explanation: A join request contains references to tables that are not in the same FROM clause.

User response: Ensure that all access requests within the join request refer to correlation or table names in the same FROM clause of the optimized statement and recompile the statement.

EXP0016W  Invalid join request. Conflicting join dependencies.

Explanation: An attempt was made to join derived tables that are mutually dependent on one another due to correlated column references.

User response: Correct the join request and recompile the statement.

EXP0017W  More than one comment containing embedded optimization guideline was found in the statement.

EXP0018W  Invalid access request. A table with the supplied correlation and table name cannot be found. DB2 has substituted an MQT for the table.

EXP0019W  Table has no statistics. The table schema.table-name has not had runstats run on it. This may result in a sub-optimal access plan and poor performance.
EXP0021W  Table column has no statistics. The column column-number of table schema.table-name has not had runstats run on it. This can lead to poor cardinality and predicate filtering estimates.

EXP0022W  Index has no statistics. The index schema.index-name has not had runstats run on it. This can lead to poor cardinality and predicate filtering estimates.

EXP0023W  Optimization guideline is a duplicate of another guideline. Line number line-number, character number character-number.

Explanation:  An equivalent optimization guideline with the same target exists.

User response:  Remove the duplicate guideline.

EXP0024W  Optimization guideline conflicts with another guideline. Line number line-number, character number character-number.

Explanation:  More than one optimization guideline exists with the same target but with conflicting options.

User response:  Remove one of the conflicting guidelines and recompile the statement.

EXP0025W  Optimization guideline is ambiguous. Line number line-number, character number character-number.

Explanation:  The Optimization guideline target is not unique.

User response:  Refine the guideline to make the target unique and recompile the statement.

EXP0026W  Invalid option option. Line number line-number, character number character-number.

Explanation:  The option provided is invalid.

User response:  Correct the option and recompile the statement.

EXP0027W  A column name is specified without a table reference. Line number line-number, character number character-number.

Explanation:  A column name requires a qualifying TABLE or TABID attribute.

User response:  Qualify the column in the guideline with a TABLE or TABID attribute and recompile the statement.

EXP0028W  The optimization guideline SUBQ2JOIN has not been applied because semantic conditions are not met or context was changed.

Explanation:  The precondition for SUBQ2JOIN is not met or the statement was changed by other rewrite rules.

User response:  Ignore the warning or remove the element.

EXP0029W  The optimization guideline INLIST2JOIN has not been applied because semantic conditions are not meet or context is changed.

Explanation:  The precondition for INLIST2JOIN is not met or the statement has been changed by other rewrite rules.

User response:  Ignore the warning or remove the element.

EXP0030W  The optimization guideline NOTEX2AJ has not been applied because semantic conditions are not met or context is changed.

Explanation:  The precondition for NOTEX2AJ is not met or the statement has been changed by other rewrite rules.

User response:  Ignore the warning or remove the element.

EXP0031W  The optimization guideline NOTIN2AJ has not been applied because semantic conditions are not met or context is changed.

Explanation:  The precondition for NOTIN2AJ is not met or the statement has been changed by other rewrite rules.

User response:  Ignore the warning or remove the element.

EXP0032W  IN list predicate could not be found. Line number line-number.

Explanation:  No IN list predicate exists that matches the table reference and column name provided. The IN list predicate may have been removed by other rewrite rules.

User response:  If the TABLE, TABID or COLUMN attributes are in error, correct them and recompile the statement.

EXP0033W  Invalid access request. The MQT name could not be matched. Line number line-number, character number character-number.

Explanation:  The MQT name could not be matched. The MQT name may have been removed by other rewrite rules.
**Explanation:** No MQT exists with the specified name and schema.

**User response:** Ensure that the MQT exists and the name and schema specified are correct and recompile the statement.

**EXP0034I** Column group statistics recommendation for bias prevention. The columns `columns` of table `table-name` are statistically correlated. This can lead to underestimating the cardinality by a factor of `error-factor` in the worst case. Collecting a column group statistic on the columns may improve cardinality estimation.

**EXP0035I** Column group statistics recommendation. The columns `columns` of table `table-name` might be statistically correlated. This can lead to underestimating the cardinality by a factor of `error-factor` in the worst case. Collecting a column group statistic on the columns may improve cardinality estimation.

**EXP0036I** Column group statistics recommendation for bias prevention. The columns `columns` of table `table-name` are statistically correlated. This can lead to underestimating the cardinality by a factor of `error-factor` in the worst case. Collecting a column group statistic on the columns may improve cardinality estimation.

**EXP0037I** Column group statistics recommendation. The columns `columns` might be statistically correlated. This can lead to underestimating the cardinality by a factor of `error-factor` in the worst case. Collecting a column group statistic on the columns may improve cardinality estimation.

**EXP0039I** Query complexity measure. Highest number of joins in any query block: `joins`.

**EXP0040I** Column group statistics recommendation for bias prevention. The columns `columns` of table `table-name` are statistically correlated. This can lead to underestimating the cardinality by a factor of `error-factor` in the worst case. Collecting a column group statistic on the columns may improve cardinality estimation.

**EXP0042I** Column group statistics recommendation. The columns `columns` of table `table-name` might be statistically correlated. This can lead to underestimating the cardinality by a factor of `error-factor` in the worst case. Collecting a column group statistic on the columns may improve cardinality estimation.

**EXP0043I** Column group statistics recommendation for bias prevention. The columns `columns` might be statistically correlated. This can lead to underestimating the cardinality by a factor of `error-factor` in the worst case. Collecting a column group statistic on the columns may improve cardinality estimation.

**EXP0044I** Invalid value specified in the optimization guideline for the TYPE attribute of the MQTENFORCE element at line number `line-number`, column number `column-number`.

**Explanation:** An optimizer profile guideline containing an MQTENFORCE element with the TYPE attribute attempted to specify an invalid value for TYPE. Valid values for this attribute are: NORMAL, REPLICATED, and ALL.

**User response:** Specify either NORMAL, REPLICATED, or ALL for the TYPE attribute.

**EXP0045I** The table named `schema.table-name` has fabricated statistics. This can lead to poor cardinality and predicate filtering estimates. The size of the table changed significantly since the last time the RUNSTATS command was run.

**Explanation:** Fabricating statistics means deriving or creating statistics, rather than collecting them as part of normal RUNSTATS activity. For example, the number of rows in a table can be derived from knowing the number of pages in the table, the page size, and the average row width.

When a table has undergone many updates or
otherwise changed significantly, the statistics cease to be valid, and you should rerun the RUNSTATS command.

User response: Collect new statistics using the RUNSTATS command to avoid performance degradations.

EXP0046W  Invalid attribute specified in the optimization guideline for the MQTENFORCE element at line
          line-number, column column-number.
Explanation: An optimizer profile guideline containing an MQTENFORCE element attempted to specify an invalid attribute for MQTENFORCE. Valid attributes for this element are: NAME and TYPE.
User response: Specify either NAME or TYPE for the MQTENFORCE element.

EXP0047W  The VALUE attribute of the DPFXMLMOVEMENT element has the invalid value DPFXMLMOVEMENT-value. Line number line-number, character number character-number.
Explanation: The value of the DPFXMLMOVEMENT element’s VALUE attribute is invalid.
In a partitioned database environment, the VALUE attribute of the DPFXMLMOVEMENT element affects the optimizer’s plan when moving XML documents between database partitions. The VALUE attribute can be one of the following values:
- REFERENCE specifies that a reference to an XML document is moved through the TQ operator. The XML document remains on the source partition.
- COMBINATION specifies that some XML documents are moved through the TQ operator and references to other XML documents are moved through the TQ operator.
By default, when the VALUE attribute is not specified, the optimizer makes a cost-based decision to move an XML document as REFERENCE or COMBINATION in order to maximize performance.
User response: Change the VALUE attribute of the DPFXMLMOVEMENT element to a valid value.

EXP0053W  The following REFRESH DEFERRED MQT was not considered for rewrite matching because its isolation level was inferior to the query's isolation level: schema.table-name.

EXP0054W  The following REFRESH DEFERRED MQT was not considered for rewrite matching because the CURRENT REFRESH AGE register was not set to ANY: schema.table-name.

EXP0055W  The following REFRESH DEFERRED MQT was not considered for rewrite matching because the CURRENT MAINTAINED TABLE TYPES FOR OPTIMIZATION register or the DFT_MTTB_TYPES configuration parameter was not set to ALL or SYSTEM or USER: schema.table-name.

EXP0056W  The following FEDERATED_TOOL MQT was not considered for rewrite matching because the CURRENT MAINTAINED TABLE TYPES FOR OPTIMIZATION register or the DFT_MTTB_TYPES configuration parameter was not set to FEDERATED_TOOL: schema.table-name.

EXP0057W  The following MQT or statistical view was not considered for rewrite matching because it was based on recursive VIEWS or contained SQL constructs other than SELECT, GROUP BY and UNION ALL: schema.table-name.

EXP0058W  The following MQT or statistical view was not considered for rewrite matching because of one or more of the following reasons: (1) MQT was in SET INTEGRITY PENDING state, or (2) MQT would be put to SET INTEGRITY PENDING state, or (3) MQT was modified in the same statement, or (4) MQT or statistical view was not enabled for optimization: schema.table-name.
### Explanation:
You can improve query performance using materialized query tables (MQTs). The optimizer uses MQTs to improve response time for complex queries. You can also use statistical views to improve the performance of queries. The optimizer uses the statistics from the view to compute a better estimate of the cost of different plan choices.

This message is returned if when the explain utility is run for a specified query, and there is a join predicate in an MQT for one of the tables in the query, but that join predicate is not in the query, and that join predicate is not lossless. A join predicate is lossless only when the join columns being joined are the primary key and the foreign key of a referential integrity constraint on each side of the predicate and the foreign key is not nullable.

### User response:
1. Generate an explain plan of the query using the `db2exfmt` tool.
2. Compare the optimized statement of the explain plan with MQT definition query.
3. Determine whether the extra join predicate matches a referential integrity that has a foreign key that is nullable.
4. If the extra join predicate matches a referential integrity that has a foreign key that is nullable, change that foreign key column in the following way:
   - Define the foreign key to be not nullable if when business logic determines that the foreign key value is not null.
EXP0070W  The following MQT or statistical view was not eligible because the query or the MQT had an SQL construct like ORDER BY, FETCH FIRST n ROWS, DISTINCT or had maximum cardinality enforcement: schema.table-name.

EXP0071W  The following MQT or statistical view was not eligible because the query or the MQT had a DISTINCT SQL construct: schema.table-name.

EXP0072W  The following MQT or statistical view was not eligible because GROUP BY terms in the query could not be matched with the MQT: schema.table-name.

EXP0073W  The following MQT or statistical view was not eligible because one or more data filtering predicates from the query could not be matched with the MQT: schema.table-name.

EXP0074W  The following MQT was not eligible because no suitable bindings were found between the query and the MQT: schema.table-name.

EXP0075W  The following MQT or statistical view was not eligible because it contained SQL constructs that could not be compensated to match with the query: schema.table-name.

EXP0077W  The following MQT or statistical view was not eligible because it could not be compiled: schema.table-name.

EXP0078W  The following MQT or statistical view was not eligible because it contained SQL constructs that could not be compensated to match with the query: schema.table-name.

EXP0079W  The following MQT was not used in the final access plan, because the plan cost with this MQT was more expensive or a better candidate was available: schema.table-name.

EXP0080W  The current usage of the statement or the statement containing update, delete or insert or constructs like sampling limits MQT matching.

EXP0081W  MQT matching was not done in SQL query rewrite because the query optimization level is set to 0, 1, or 3.

EXP0082W  The following MQT or statistical view was not eligible because FRIENDLY ARITHMETIC characteristics between the query and the MQT did not match: schema.table-name.

EXP0083W  The explain operation failed because the server specified in the optimization profile is not defined for the query. Specified server: server-name. Line number: line_number. Character number: character_number.

Explanation: The EXPLAIN tables contain detailed information about the access plans created by the SQL and XQuery compiler to resolve SQL or XQuery statements. You can view the access plans in EXPLAIN tables in a text format using the db2exfmt command.

This message is returned when the db2exfmt command is called to display the contents of the EXPLAIN tables, but an earlier explain operation failed because of a problem with specified optimization guidelines.

The tokens line_number and character_number indicate the location in the XML input profile where the problematic SERVER element is specified.

User response:
1. Explain the statement again with an optimization profile that specifies a database server that is defined for the query.
2. Format the contents of the EXPLAIN tables using the db2exfmt command.

EXP0084W  The explain operation failed because an invalid option name was specified in the optimization profile of the statement. Option name: option_name. Server name: server-name.

Explanation: The EXPLAIN tables contain detailed information about the access plans created by the SQL and XQuery compiler to resolve SQL or XQuery statements. You can view the access plans in EXPLAIN tables in a text format using the db2exfmt command.

This message is returned when the db2exfmt command is called to display the contents of the EXPLAIN tables, but an earlier explain operation failed because of a problem with specified optimization guidelines.

Specifically, this message is returned when an option name is specified that satisfies any of the following conditions:
- Specifies an option name that does not exist
- Is not valid for the specified data source
User response:

1. Explain the statement again with an optimization profile that includes server option values that are valid for the specified server.
2. Format the contents of the EXPLAIN tables using the db2exfmt command.

EXP0085W  The explain operation failed because a value was specified for one of the server options that is not valid for the specified server in the optimization profile of the statement. Option name: option_name. Option value: option_value. for Server name: server_name.

Explanation: The EXPLAIN tables contain detailed information about the access plans created by the SQL and XQuery compiler to resolve SQL or XQuery statements. You can view the access plans in EXPLAIN tables in a text format using the db2exfmt command.

This message is returned when the db2exfmt command is called to display the contents of the EXPLAIN tables, but an earlier explain operation failed because of a problem with specified optimization guidelines. Specifically, this message is returned when a server options setting request specifies an option value that either lacks the proper delimiters or is invalid.

User response: No response is required.

EXP0148W  The following MQT or statistical view was considered in query matching: schema.table-name.

ChiXPs  The following MQT or statistical view was considered in query matching: schema.table-name.

User response:  No response is required.

EXP0151W Invalid degree value. The string specified as a degree request is invalid. Line number number, character number number.

Explanation: The string specified as degree is not correct and the guideline will not be used.

User response: Make sure that the string specified as the VALUE attribute in the guideline is ANY or a number between -1 and 32767.

EXP0152W Ignored degree value. The specified degree of parallelism will be ignored because the system is not enabled for intra-partition parallelism. Line number number, character number number.

Explanation: The database manager is not configured for intra-partition parallelism.

User response:  No response is required.
User response: If you want to use intra-partition parallelism restart the database manager with the intra_parallel configuration parameter set to ON.

User response: Please check the Administration Guide or the SQL Reference for a list of supported optimization levels.

User response: No action required. For these type of DDL operations, a dummy access plan is generated and this diagnostic message is saved in the explain table.

User response: Ensure that the optimization guideline is well-formed and valid with respect to the current optimization profile schema and star join guideline rules, and recompile the statement.
EXP0182W Invalid star join index ANDing access request. A star join index ANDing access request has the TYPE attribute set to 'XMLINDEX'. Line number line-number, character number character-number.

Explanation: An index ANDing access request that has been interpreted as a star join access request cannot have a TYPE attribute set to 'XMLINDEX'.

User response: Ensure that the optimization guideline is well-formed and valid with respect to the current optimization profile schema and star join guideline rules, and recompile the statement.

EXP0183W Invalid join request. This request is nested within another similar request which is not supported. Line number line-number, character number character-number.

Explanation: A star join index ANDing access request cannot be nested within another star join index ANDing access request or within a zigzag join.

User response: Ensure that the optimization guideline is well-formed and valid with respect to the current optimization profile schema and join guideline rules, and recompile the statement.

EXP0184W Multiple star join index ANDing access requests have been found for tables in the same FROM clause. Line number line-number, character number character-number.

Explanation: Only one star join index ANDing access request can be specified for tables that are referenced in the same FROM clause.

User response: Ensure that there is only one star join index ANDing access request for any table in the same FROM clause of the optimized statement, and recompile the statement.

EXP0185W A star join index ANDing access request has an unexpected child element. Line number line-number, character number character-number.

Explanation: An index ANDing access request that has been interpreted as a star join access request has a child element that is not an NLJOIN join request. Only NLJOIN join request elements can be children of a star join index ANDing access request.

User response: Ensure that the optimization guideline is well-formed and valid with respect to the current optimization profile schema and star join guideline rules, and recompile the statement.

EXP0186W The inner child of a star join semi-join is not an IXSCAN access request element that references the fact table. Line number line-number, character number character-number.

Explanation: A star join semi-join (the NLJOIN join request child of a star join index ANDing access request), must have an IXSCAN access request element as its inner child. Moreover, this IXSCAN access request element must reference the same TABLE or TABID as the star join index ANDing access request within which it is nested.

User response: Ensure that the optimization guideline is well-formed and valid with respect to the current optimization profile schema and star join guideline rules, and recompile the statement.

EXP0187W The fact table is referenced in the outer arm of a star join semi-join. Line number line-number, character number character-number.

Explanation: No access request that is nested on the outer arm of a star join semi-join (the NLJOIN join request child of a star join index ANDing access request) can reference the same TABLE or TABID as the star join index ANDing access request within which it is nested.

User response: Ensure that the optimization guideline is well-formed and valid with respect to the current optimization profile schema and star join guideline rules, and recompile the statement.

EXP0188W Invalid star join index ANDing access request. In semi-join semijoin-number, no "=" join predicate can be applied using the leading column of the specified fact table index. Line number line-number, character number character-number.

Explanation: If a fact table index is to be used on the inner arm of a star join semi-join (the NLJOIN join request child of a star join index ANDing access request), the leading column of the index must be referenced in an "=" join predicate between the fact table and one of the tables that is specified on the outer arm of the NLJOIN. No such predicate was found for the specified index.

User response: Ensure that the optimization guideline is well-formed and valid with respect to the current optimization profile schema and star join guideline rules, and recompile the statement.
**EXP0189W**  Invalid star join index ANDing access request. In semi-join semi-join-number, a fact table index was not found where an "=" join predicate could be applied using the leading column of the index. Line number line-number, character number character-number.

**Explanation:** If a fact table index is to be used on the inner arm of a star join semi-join (the NLJOIN join request child of a star join index ANDing access request), the leading column of the index must be referenced in an "=" join predicate between the fact table and one of the tables that is specified on the outer arm of the NLJOIN. A fact table index that could satisfy this requirement was not found.

**User response:** Ensure that the optimization guideline is well-formed and valid with respect to the current optimization profile schema and star join guideline rules, and recompile the statement.

---

**EXP0190W**  Invalid star join index ANDing access request. Neither the INDEX attribute nor INDEX child elements are permitted. Line number line-number, character number character-number.

**Explanation:** An index ANDing access request that has been interpreted as a star join access request cannot have an INDEX attribute or INDEX child elements.

**User response:** Ensure that the optimization guideline is well-formed and valid with respect to the current optimization profile schema and star join guideline rules, and recompile the statement.

---

**EXP0191I**  Join enumeration method changed due to isolated quantifier threshold.

---

**EXP0192W**  The access plan might be sub-optimal because data might have been stored in a LOB. Some rows might not be stored in a a system temporary table because it is too large for the temporary table's page size.

**Explanation:** The page size of the system temporary table space is 32 KB, but the data to be stored might be too large for this page size. Data that exceeds the 32 KB row size limit will be stored in a temporary LOB.

The performance of LOB data access might be slower because additional I/O might be required to fetch, insert, or update this data.

**User response:**
1. Verify the access plan for argument EXTROWS to identify which operator might need to store rows as LOB objects.
2. Consider reducing the number of referenced columns in the query.

---

**EXP0201W**  The ALLINDEXES attribute has an invalid value ALLINDEXES-value. Line number line-number, character number character-number.

**Explanation:** The ALLINDEXES attribute indicates that the optimizer must select all applicable indexes. The ALLINDEXES attribute has only one valid value:
- TRUE specifies that the optimizer must select all applicable indexes.

If you want the optimizer to make a cost-based decision to pick XML indexes, then do not specify the ALLINDEXES attribute.

**User response:** Change the ALLINDEXES attribute to a valid value.

---

**EXP0202W**  The TYPE attribute has an invalid value type-value. Line number line-number, character number character-number.

**Explanation:** The TYPE attribute determines whether the request is an XML access request. The TYPE attribute has only one valid value:
- The value 'XMLINDEX' specifies that optimizer must select an XML index access method.

**User response:** Change the TYPE attribute to a valid value.

---

**EXP0203W**  Invalid access request. The index index-name is not valid for this optimization guideline. Line number line-number, character number character-number.

**Explanation:** The INDEX attribute of the XISCAN optimization guideline must specify an XML index.

**User response:** Change the INDEX attribute of the XISCAN element to specify an XML index.

---

**EXP0204W**  Invalid access request. The XML index index-name was specified in the INDEX attribute or INDEX element, but the TYPE attribute is not set to XMLINDEX. Line number line-number, character number character-number.

**Explanation:** For the ACCESS or IXAND optimization guideline, an XML index can only be specified in INDEX attribute or INDEX element if the TYPE attribute is set to XMLINDEX.

**User response:** Do one of the following:
- Set the TYPE attribute to XMLINDEX.
- Remove the specified XML index from the INDEX attribute or INDEX element.
EXP0205W  Invalid access request. The ALLINDEXES attribute was specified, but the TYPE attribute is not set to XMLINDEX. Line number line-number, character number character-number.

Explanation:  For the ACCESS or IXAND optimization guideline, the ALLINDEXES attribute can only be specified if the TYPE attribute is set to XMLINDEX.

User response:  Do one of the following:
- Set the TYPE attribute to XMLINDEX.
- Remove the ALLINDEXES specification.

EXP0206W  The optimization guideline has conflicting values for the INDEX attribute or INDEX element and for the attribute ALLINDEXES. Line number line-number, character number character-number.

Explanation:  If the ALLINDEXES attribute is set to TRUE, then the optimizer selects all applicable indexes. In this case, you cannot identify a specific index to be selected by the optimizer.

To specify only some indexes using the INDEX attribute or INDEX element, do not specify the ALLINDEXES attribute.

User response:  Do one of the following:
- Remove the ALLINDEXES attribute.
- Remove the INDEX specification.

EXP0207W  The optimization guideline has not been applied because the join method is not applicable to XML type. Line number line-number, character number character-number.

Explanation:  A MSJOIN join request element or a HSJOIN join request element cannot be specified when the join column is of type XML.

User response:  If the join column is of type XML, change the join type to specify either the NLJOIN request element or the JOIN request element, which allows the optimizer to choose the appropriate join type.

EXP0208W  Invalid access request. The XML index index-name is not allowed in this type of access request. Line number line-number, character number character-number.

Explanation:  You cannot specify an XML index in an IXSCAN or LPREFETCH optimization guideline. You can only specify a relational index in these guidelines.

User response:  Change the INDEX attribute or INDEX element value to specify an available relational index.

EXP0211W  Optimization guidelines cannot be used to set the SQL compiler registry variable string registry-variable on line number line-number, character number character-number.

Explanation:  The setting for the specified SQL compiler registry variable in the optimization guideline was ignored. There is either no such registry variable, or this registry variable cannot be specified in an optimization guideline.

User response:  Verify and correct the SQL compiler registry variable string. If it is a valid SQL compiler registry variable then it is not supported in an optimization guideline and should be removed.

EXP0212W  The optimization guideline contains an invalid value specified for the SQL compiler registry variable registry-variable on line number line-number, character number character-number.

Explanation:  The value specified in the optimization guideline for the SQL compiler registry variable is invalid and has not been used.

User response:  Verify and correct the value for the registry variable. Refer to the DB2 Information Center to determine the valid values for the registry variable.

EXP0213W  An empty REGISTRY guideline element is not permitted in the XML optimization profile on line number line-number, character number character-number.

Explanation:  The REGISTRY guideline element must contain at least one OPTION element in the XML optimization profile.

User response:  Specify one or more OPTION elements within the REGISTRY element, or remove the empty REGISTRY element.

EXP0214W  The optimization profile contains an invalid attribute setting invalid-attribute-setting for the element element on line line-number.

Explanation:  The setting for the specified optimization profile element was ignored. Either the attribute name or its value is not valid.

User response:  Verify and correct the attribute setting for the specified optimization profile element.

EXP0221W  The EXPLAIN_ACTUALS table does not exist. Section actuals are not available.

Explanation:  The EXPLAIN_ACTUALS table was not created. To obtain section actuals data, the EXPLAIN_ACTUALS table must exist.
User response: Create the EXPLAIN_ACTUALS table by using the SYSINSTALOBJECTS procedure, the EXPLAIN.DDL, or the db2exmig command.

EXP0222W The section actuals, version section_actuals_version, is not supported.

Explanation: If the section actuals were collected from a release later than the current release, the section actuals are not supported and not available.

User response: Perform one of the following actions:

- Upgrade your current DB2 release to the same version on which the section actuals were collected.
- Rerun the stored procedure on the DB2 release which captured the section actuals.

EXP0231W The high percentage of NULL values in foreign key column schema.table-name.column-name referenced in a join predicate in the statistical view schema.view-name may reduce the accuracy of statistics inferred from the statistical view.

Explanation: The query optimizer uses referential integrity constraints to infer statistics from a statistical view whenever possible. The high percentage of NULL values in a foreign key column referenced in a join predicate in the statistical view may have reduced the accuracy of statistics inferred from the statistical view, which could result in sub-optimal access plans. These statistics will still be used to optimize access plans, but consider the suggestions in the user response section to further improve the access plans.

User response: Consider these actions:

- If possible, replace the NULL values in the foreign key column with appropriate, non-NULL, values.
- If replacing the NULL values is not possible, then alter the referential integrity constraints involving the foreign key column to disable query optimization, and create additional statistical views to improve access plans.

Re-issue the queries once you have completed one of these options.

EXP0223W The section actuals are invalid.

Explanation: The section actuals data might be corrupted.

User response: Recapture the section actuals.

If the section actuals are again invalid after attempting to recapture them, contact IBM Software Support.

EXP0224W The section actuals were not collected.

Explanation: The section actuals were not collected most likely due to an improper or incomplete setup of the section actuals collection mechanism.

User response: Ensure that all the steps were followed to set up the collection mechanism.

Recapture the section actuals.

EXP0225W The section was unusable for collecting statistics.

Explanation: The EXPLAIN_FROM_ACTIVITY stored procedure in the current version of DB2 database cannot interpret the statistical data in the section because the section was created by a version of DB2 database that is higher than the current version.

User response: Respond to this error in one of the following ways:

- Rebind the application by performing the following steps:
  1. Recreate the section using the REBIND command on the package for the application.
  2. Rerun the application.
  3. Call the EXPLAIN_FROM_ACTIVITY stored procedure again.
- Call the EXPLAIN_FROM_ACTIVITY stored procedure again, using the same version of the database manager as the version of database manager that was used to create the section.

EXP0232W Statistics inferred from the statistical view schema-name.stats-view may be inaccurate.

Explanation: If all foreign key columns in a referential integrity constraint are referenced in the join predicates in a statistical view, the DB2 optimizer may use the referential integrity constraints to infer statistics from a statistical view if possible.

The statistics inferred from the statistical view might be inaccurate if:

- too many rows in the child table do not have matching rows in the parent table (when the constraint is not enforced)
- the NULL values in the foreign key columns referenced in the join predicates filter out too many rows from the join

User response: Consider the join predicate in the statistical view. If the join predicates reference all foreign key columns in a referential integrity constraint, and the referential integrity constraint has one or more of the listed issues, then address these issues in the referential integrity constraints in the following ways:

- ensure there are matching rows in the parent table for each distinct foreign key in the child table
- if possible, replace the NULL values with appropriate non-NULL values
If it is not possible to make these changes to the data, then alter the referential integrity constraints to disable query optimization and optionally create additional statistical views to improve access plans.

**EXP0233I** The predicate *predicate-text* contains an expression matching the statistical view column *schema.table-name.column-name*

**Explanation:** The query optimizer matched an expression used in the predicate to the expression represented by the statistical view column. The query optimizer may have used the indicated statistical view column's statistics to improve the predicate's filtering estimate, if statistics were available.

**User response:** This message is for your information only; no action is required.

**EXP0256I** Analysis of the query shows that the query might execute faster if an additional index was created to enable zigzag join. Schema name: *table-schema*. Table name: *table-name*. Column list: *column-list*.

**Explanation:** Analysis of the query indicates a star query. However, a multi-column index on the fact table that would enable an optimal zigzag join was not found.

**User response:**
1. Create an index using the following statement:
   ```
   CREATE INDEX index_name ON table-schema.table-name column-list.
   ```
2. Reissue the query.

Additionally, consider running the Index Advisor utility to obtain comprehensive index recommendations for your query workload.

**EXP0261I** An invalid distribution map ID *identifier* was found in table ADVISE_PARTITION for table *table_schema.tablename*. The default distribution map ID IBMDEFAULTGROUP will be used instead.

**Explanation:** An invalid distribution map ID (also referred to as a partition map identifier) was specified in the PMID column of the ADVISE_PARTITION table.

**User response:** Modify the incorrect value in the ADVISE_PARTITION table for the identified table or create a partition map with the given ID.
Part 16. GSE Messages

This section contains the IBM DB2 Spatial Extender and Geodetic Data Management Feature messages. The messages are listed in numeric sequence.

GSE0001  The operation was completed successfully.
Explanation:  No errors were encountered during the execution of this operation.
User response:  No action required.
msgcode: 0
sqlstate: 00000

GSE0001C  An internal error occurred.
Explanation:  Spatial Extender encountered an unexpected internal error.
User response:  Repeat the command. If the problem persists, contact IBM Software Support.
msgcode: -1
sqlstate: 38S01

GSE0002C  Spatial Extender could not access its memory pool. Reason code = reason-code.
Explanation:  Spatial Extender tried unsuccessfully to access its memory pool.
User response:  Note the reason code reason-code and contact IBM Software Support.
msgcode: -2
sqlstate: 38S02

GSE0003N  Spatial Extender could not allocate number bytes of memory.
Explanation:  Not enough memory was available. Possible reasons are that the supply of memory was too low, or that memory was being used by other applications.
User response:  Resolve the memory shortage and repeat the command.
msgcode: -3
sqlstate: 38S03

GSE0004C  An internal parameter error occurred.
Explanation:  Spatial Extender encountered an unexpected error in a parameter passed to an internal function. The operation cannot be completed successfully.
User response:  Repeat the command. If the problem persists, contact IBM Software Support.
msgcode: -4
sqlstate: 38S04

GSE0005N  Spatial Extender could not retrieve the instance path.
Explanation:  Spatial Extender could not retrieve the instance path. The operation cannot be completed successfully.
User response:  Verify the DB2 environment. If necessary, contact IBM Software Support.
msgcode: -5
sqlstate: 38S05

GSE0006N  An internal string error occurred.
Explanation:  Spatial Extender encountered an unexpected error in an internal string operation. The operation cannot be completed successfully.
User response:  Repeat the command. If the problem persists, contact IBM Software Support.
msgcode: -6
sqlstate: 38S06

GSE0007N  The string string is missing either a closing quotation mark or a closing pair of quotation marks.
Explanation:  This string lacks a closing delimiter and therefore is not terminated correctly.
User response:  Terminate the string correctly. If it starts with a quotation mark, close it with a quotation mark. If it starts with a pair of quotation marks, close it with a pair of quotation marks.
msgcode: -7
sqlstate: 38S07

GSE0008N  An invalid error code error-code was used to raise an error.
Explanation:  There was an attempt to raise an error
identified by an invalid error-code.

User response: Contact IBM Software Support.

msgcode: -8
sqlstate: 38S08

---

GSE0009N  Not enough space is available in DB2's application heap.

Explanation: The available memory for DB2's application heap was exceeded by Spatial Extender. The operation cannot be completed successfully.

User response: On receipt of this message, terminate the application. Increase the database configuration parameter (APPLHEAPSZ) to allow a larger application heap.

Refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User's Guide and Reference for more information.

msgcode: -9
sqlstate: 38S09

---

GSE0100N  Spatial Extender could not open a file named file-name. Reason code = reason-code.

Explanation: Reasons why a file cannot be opened, preceded by their reason codes, are as follows:

1  Access to the file is denied.
3  A disk error occurred.
8  A directory with the name of the file already exists.
10  Spatial Extender tried either to create an already-existing file, or to open an existing file that could not be found.
12  The disk is full.
17  The specified path to the file does not exist.
22  A sharing violation occurred.

All other reason codes indicate an internal error.

User response: Verify the authorization for the file and the directories, then repeat the command.

If a reason code that indicates an internal error was encountered, contact IBM Software Support.

msgcode: -100
sqlstate: 38S10

---

GSE0101N  An I/O error occurred while a file named file-name was being processed. Reason code = reason-code.

Explanation: Reasons why an I/O error can occur during file processing, preceded by their reason codes, are as follows:

1  Access to the file is denied.
3  A disk error occurred.
9  Spatial Extender attempted to read past the end of the file.
12  The disk is full.
22  A sharing violation occurred.

All other reason codes indicate an internal error.

User response: Verify that the file exists, that you have the appropriate access to the file, and that the file is not in use by another process.

If a reason code that indicates an internal error was encountered, contact IBM Software Support.

msgcode: -101
sqlstate: 38S11

---

GSE0102N  Spatial Extender could not close a file named file-name. Reason code = reason-code.

Explanation: Reasons why an error can occur during an attempt to close a file, preceded by their reason codes, are as follows:

3  A disk error occurred.
12  The disk is full.

All other reason codes indicate an internal error.

User response: Verify that the file system is in fully working condition and that enough disk space is available.

If a reason code that indicates an internal error was
encountered, contact IBM Software Support.

**msgcode**: -102
**sqlstate**: 38S12

**GSE0103N**  Spatial Extender could not delete a file named file-name. Reason code = reason-code.

**Explanation**: Reasons why an error can occur during an attempt to delete a file, preceded by their reason codes, are as follows:

1  Access to the file is denied.
3  A disk error occurred.
17  The specified path to file does not exist.
22  A sharing violation occurred.

All other reason codes indicate an internal error.

**User response**: Given for each reason code:

1  Verify that you have sufficient privileges on the file and all directories in the path of the file.
3  Verify that the disk and file system are in proper working order.
17  Verify that the path to the file exists.
22  Verify that the file is not accessed by another process.

If a reason code that indicates an internal error was encountered, contact IBM Software Support.

**msgcode**: -102
**sqlstate**: 38S22

**GSE0203W**  Spatial Extender was already connected to database database-name.

**Explanation**: Spatial Extender tried to connect to the database database-name but was already connected to it.

**User response**: Contact IBM Software Support.

**msgcode**: +203
**sqlstate**: 38S23

**GSE0204N**  An attempt to commit a transaction failed. SQLERROR = sql-error.

**Explanation**: Spatial Extender could not commit the current transaction successfully. DB2 returned sql-error.

**User response**: Refer to the description of sql-error.

**msgcode**: -204
**sqlstate**: 38S24

**GSE0205W**  An attempt to roll back a transaction failed. SQLERROR = sql-error.

**Explanation**: Spatial Extender could not roll back the current transaction. DB2 returned sql-error.

**User response**: Refer to the description of sql-error.

**msgcode**: +205
**sqlstate**: 38S25

**GSE0206N**  A SELECT statement failed. SQLERROR = sql-error.

**Explanation**: Spatial Extender could not execute a SELECT statement successfully. DB2 returned sql-error.

**User response**: Refer to the description of sql-error.

**msgcode**: -206
**sqlstate**: 38S26

**GSE0207N**  A VALUES statement failed. SQLERROR = sql-error.

**Explanation**: Spatial Extender could not execute a VALUES statement successfully. DB2 returned sql-error.
GSE0208N  A PREPARE statement failed. SQLERROR = sql-error.
Explanation: Spatial Extender could not prepare an SQL statement successfully. DB2 returned sql-error.
User response: Refer to the description of sql-error.
msgcode: -207
sqlstate: 38S27

GSE0209N  An attempt to open an SQL cursor failed. SQLERROR = sql-error.
Explanation: Spatial Extender could not open a cursor over a result set successfully. DB2 returned sql-error.
User response: Refer to the description of sql-error.
msgcode: -208
sqlstate: 38S28

GSE0210W  An attempt to close an SQL cursor failed. SQLERROR = sql-error.
Explanation: Spatial Extender could not close a cursor over a result set successfully. DB2 returned sql-error.
User response: Refer to the description of sql-error.
msgcode: +210
sqlstate: 38S2A

GSE0211N  A fetch from an SQL cursor failed. SQLERROR = sql-error.
Explanation: Spatial Extender could not fetch a result from a cursor successfully. DB2 returned sql-error.
User response: Refer to the description of sql-error.
msgcode: -211
sqlstate: 38S2B

GSE0212N  An attempt to drop an object failed. SQLERROR = sql-error.
Explanation: Spatial Extender could not drop the specified database object. DB2 returned sql-error.
User response: Refer to the description of sql-error.
msgcode: -212
sqlstate: 38S2C

GSE0213N  A bind operation failed. SQLERROR = sql-error.
Explanation: Spatial Extender could not bind the specified file to the current database. DB2 returned sql-error.
This error can occur if the size of DB2's application heap is too small.
User response: Verify that the database is enabled for spatial operations.
If the error occurs during the enabling, verify the installation of Spatial Extender.
If the problem persists, increase the database configuration parameter (APPLHEAPSZ) for the size of the application heap.
msgcode: -213
sqlstate: 38S2D

GSE0214N  An INSERT statement failed. SQLERROR = sql-error.
Explanation: Spatial Extender could not execute an INSERT statement successfully. DB2 returned sql-error.
User response: Refer to the description of sql-error.
msgcode: -214
sqlstate: 38S2E

GSE0215N  An UPDATE statement failed. SQLERROR = sql-error.
Explanation: Spatial Extender could not execute an UPDATE statement successfully. DB2 returned sql-error.
User response: Refer to the description of sql-error.
msgcode: -215
sqlstate: 38S2F

GSE0216N  A DELETE statement failed. SQLERROR = sql-error.
Explanation: Spatial Extender could not execute a DELETE statement successfully. DB2 returned sql-error.
User response: Refer to the description of sql-error.
msgcode: -216
sqlstate: 38S2G

GSE0217N  A LOCK TABLE statement failed. SQLERROR = sql-error.
Explanation: Spatial Extender could not execute a LOCK TABLE statement successfully. DB2 returned sql-error.
User response: Refer to the description of sql-error.
msgcode: -217
sqlstate: 38S2H

GSE0218N  A DECLARE GLOBAL TEMPORARY TABLE statement failed. SQLERROR = sql-error.
Explanation: Spatial Extender could not execute a DECLARE GLOBAL TEMPORARY TABLE statement successfully. DB2 returned sql-error.
User response: Refer to the description of sql-error.

msgcode: -218
sqlstate: 38S2I

GSE0219N  An EXECUTE IMMEDIATE statement failed. SQLERROR = sql-error.
Explanation: Spatial Extender could not execute an EXECUTE IMMEDIATE statement successfully. DB2 returned sql-error.
User response: Refer to the description of sql-error.

msgcode: -219
sqlstate: 38S2J

GSE0220N  The setting of a savepoint failed. SQLERROR = sql-error.
Explanation: Spatial Extender could not set a savepoint successfully. DB2 returned sql-error.
User response: Refer to the description of sql-error.

msgcode: -220
sqlstate: 38S2K

GSE0221N  No database name was specified.
Explanation: Spatial Extender could not connect to a database because the name of the database was not specified.
User response: Specify a database name.

msgcode: -221
sqlstate: 38S2L

GSE0222N  An attempt to quiesce a table space failed. SQLERROR = sql-error.
Explanation: Spatial Extender could not quiesce a table space successfully. DB2 returned sql-error.
User response: Refer to the description of sql-error.

msgcode: -223
sqlstate: 38S2N

GSE0224N  An attempt to import data into a table failed. SQLERROR = sql-error.
Explanation: Spatial Extender could not import data into a table successfully. DB2 returned sql-error.
User response: Refer to the description of sql-error.

msgcode: -224
sqlstate: 38S2O

GSE0225N  An attempt to retrieve the database configuration or the database manager configuration failed. SQLERROR = sql-error.
Explanation: Spatial Extender could not retrieve the configuration for the current database or the configuration for the database manager successfully. DB2 returned sql-error.
User response: Refer to the description of sql-error.

msgcode: -225
sqlstate: 38S2P

GSE0226N  An attempt to create a trigger failed. SQLERROR = sql-error.
Explanation: Spatial Extender could not create a trigger successfully. DB2 returned sql-error.
User response: Refer to the description of sql-error.

msgcode: -226
sqlstate: 38S2Q

GSE0227N  An ALTER TABLE statement failed. SQLERROR = sql-error.
Explanation: Spatial Extender could not execute an ALTER TABLE statement successfully. DB2 returned sql-error.
User response: Refer to the description of sql-error.

msgcode: -227
sqlstate: 38S2R
GSE0228N  An attempt to retrieve the message for error gse-error and SQLCODE = sqlcode from the Spatial Extender message catalog failed.

Explanation: Spatial Extender could not retrieve the message for error gse-error and SQLCODE = sqlcode successfully.

User response: Verify the installation of Spatial Extender. Verify also that the message catalog in the language that you want to use is installed.

msgcode: -228
sqlstate: 38S2S

GSE0229N  An attempt to bind a file named bind-file failed. Reason code = reason-code.

Explanation: Spatial Extender failed in an attempt to use the sqlabndx function to bind the file named bind-file to the database. sqlabndx returned the reason code reason-code.

User response: Verify that the database is enabled for spatial operations.

Refer to the description of reason-code for the function sqlabndx.

msgcode: -229
sqlstate: 38S2T

GSE0230N  The system catalog could not be updated.

Explanation: Spatial Extender encountered an error while attempting to use the DB2 service to update the system catalog.

User response: Contact IBM Software Support.

msgcode: -230
sqlstate: 38S2U

GSE0231N  A PREPARE statement encountered a warning condition. SQLWARNING = sql-warning.

Explanation: Spatial Extender encountered a warning condition when preparing an SQL statement. DB2 returned sql-warning. The PREPARE statement was completed successfully.

User response: Refer to the description of sql-warning.

msgcode: -231
sqlstate: 38S2V

GSE0300N  The specified password is too long.

Explanation: The password used in your attempt to connect to the database is too long.

User response: Verify that the password you specified is correct. If it is the correct password, then shorten it and try the operation again.

msgcode: -300
sqlstate: 38S40

GSE0301N  The specified schema name, schema-name, is too long.

Explanation: The requested operation cannot be completed successfully because the length of the schema name exceeds DB2's limit for schema names.

User response: Specify a valid, shorter schema name. For more information on the schema name length limit, refer to IBM DB2 Spatial Extender and Geodetic Data Management Feature User’s Guide and Reference and try the operation again.

msgcode: -301
sqlstate: 38S41

GSE0302N  The specified table name, table-name, is too long.

Explanation: The requested operation cannot be completed successfully because the length of the table name exceeds DB2's limit for table names.

User response: Specify a valid, shorter table name. For more information on the table name length limit, refer to IBM DB2 Spatial Extender and Geodetic Data Management Feature User’s Guide and Reference, and then try the operation again.

msgcode: -302
sqlstate: 38S42

GSE0303N  The specified column name, column-name, is too long.

Explanation: The requested operation cannot be completed successfully because the length of the column name exceeds DB2's limit for column names.

User response: Specify a valid, shorter column name. For more information on the column name length limit, refer to IBM DB2 Spatial Extender and Geodetic Data Management Feature User’s Guide and Reference, and then try the operation again.

msgcode: -303
sqlstate: 38S43
GSE0304N The specified index name, index-name, is too long.

Explanation: The requested operation cannot be completed successfully because the length of the index name exceeds DB2's limit for index names.

User response: Specify a valid, shorter index name. For more information on the index name length limit, refer to IBM DB2 Spatial Extender and Geodetic Data Management Feature User's Guide and Reference, and then try the operation again.

msgcode: -304
sqlstate: 38S44

GSE0305N The specified data type name, type-name, is too long.

Explanation: The requested operation cannot be completed successfully because the length of the data type name exceeds DB2's limit for data type names.

User response: Specify a valid, shorter type name. For more information on the data type name length limit, refer to IBM DB2 Spatial Extender and Geodetic Data Management Feature User's Guide and Reference, and then try the operation again.

msgcode: -305
sqlstate: 38S45

GSE0306N A complete path that starts with path would exceed the acceptable limit of limit bytes.

Explanation: The file in a path that starts with path cannot be accessed because the length of the complete path would exceed the limit of limit bytes. As a result, the statement that you submitted cannot be executed successfully.

User response: Change the location of the file to be accessed so that it can be found using a shorter path and re-submit the statement that you specified. On UNIX systems, symbolic links can be used to establish a shorter path name.

msgcode: -306
sqlstate: 38S46

GSE0307N The length of a dynamic SQL statement statement-length would exceed the acceptable limit of limit bytes.

Explanation: The statement cannot be constructed because it would be too long.

User response: If the statement is constructed in the context of a stored procedure, verify that the WHERE clause is not too long. If necessary, shorten the WHERE clause and retry the operation. If the problem persists, contact IBM Software Support.

msgcode: -307
sqlstate: 38S47

GSE0308N The string, string, exceeds the limit of limit bytes.

Explanation: The requested operation cannot be completed successfully because the string, string, is too long.

User response: Specify a shorter string. If necessary, contact IBM Software Support.

msgcode: -308
sqlstate: 38S48

GSE1000N Spatial Extender could not perform an operation operation-name that was requested under user id user-id.

Explanation: You requested this operation under a user id that does not hold the privilege or authority to perform the operation.

User response: Consult the IBM DB2 Spatial Extender and Geodetic Data Management Feature User's Guide and Reference to find out what the required authorization for the operation is.

msgcode: -1000
sqlstate: 38S50

GSE1001N The specified value, value, is not valid for the argument-name argument.

Explanation: The value value that you entered for argument argument-name was incorrect or misspelled.

User response: Consult the IBM DB2 Spatial Extender and Geodetic Data Management Feature User's Guide and Reference to find out what value or range of values you need to specify.

msgcode: -1001
sqlstate: 38S51

GSE1002N A required argument, argument-name, was not specified.

Explanation: The requested operation cannot be completed successfully because an argument that it requires was not specified.

User response: Specify argument argument-name with the value that you want; then request the operation again.

msgcode: -1002
sqlstate: 38S52
GSE1003N  The spatial column, schema-name.table-name.column-name, could not be registered with the spatial reference system srs-name because it is already registered with another spatial reference system.

Explanation: A spatial reference system is already registered with the spatial column. It cannot be registered again unless it is unregistered first.
User response: Either unregister the spatial column and then register it with the spatial reference system you want or do not attempt to register it again.

msgcode: -1003
sqlstate: 38S53

GSE1004N  The specified geocoder, geocoder-name, is already registered.

Explanation: This geocoder is already registered. It cannot be registered again unless it is unregistered first.
User response: Register the geocoder with a unique name, or unregister the existing geocoder first and then try the operation again.

msgcode: -1004
sqlstate: 38S54

GSE1005N  Geocoding has already been set up for the spatial column named schema-name.table-name.column-name.

Explanation: Geocoding has already been set up for this column. Geocoding cannot be set up again unless the current setup is removed first.
User response: Remove the existing geocoding setup, or choose a column for which geocoding is already set up.

msgcode: -1005
sqlstate: 38S55

GSE1006N  The spatial column schema-name.table-name.column-name is not registered.

Explanation: This spatial column was not registered with a spatial reference system. Therefore, it cannot be unregistered.
User response: Specify a spatial column that is already registered, or do not attempt to unregister the column.

msgcode: -1006
sqlstate: 38S56

GSE1007N  The specified geocoder geocoder-name is not registered.

Explanation: A geocoder named geocoder-name has not been registered. Therefore, it cannot be unregistered.
User response: Specify a geocoder that is already registered, or do not attempt to unregister the geocoder.

msgcode: -1007
sqlstate: 38S57

GSE1008N  A geocoder whose numeric identifier is geocoder-id is not registered.

Explanation: A geocoder whose numeric identifier is geocoder-id is not registered. It cannot be unregistered.
User response: Specify a geocoder that is already registered, or do not attempt to unregister the geocoder.

msgcode: -1008
sqlstate: 38S58

GSE1009N  A table named schema-name.table-name does not exist.

Explanation: The requested operation cannot be completed successfully because the table schema-name.table-name does not exist.
User response: Specify a valid table name and retry the operation.

msgcode: -1009
sqlstate: 38S59

GSE1010N  A spatial column named schema-name.table-name.column-name does not exist.

Explanation: The requested operation cannot be completed successfully because the spatial column schema-name.table-name.column-name does not identify an existing column.
User response: Specify a valid spatial column name and retry the operation.

msgcode: -1010
sqlstate: 38S5A

GSE1011N  A data type named schema-name.type-name does not exist.

Explanation: The requested operation cannot be completed successfully because a data type schema-name.type-name does not exist.
User response: Specify a valid data type name and retry the operation.

msgcode: -1011
sqlstate: 38S5B
GSE1012N  The database has not been enabled for spatial operations.

Explanation: The requested operation cannot be completed successfully because the database has not been enabled for spatial operations and, therefore, a Spatial Extender catalog has not been created.

User response: Enable the database for spatial operations.

msgcode: -1012
sqlstate: 38S5C

GSE1013N  The database is already enabled for spatial operations.

Explanation: The database is already enabled for spatial operations. It cannot be enabled again.

User response: Verify that the database has been enabled as you expected. If necessary, disable the database.

msgcode: -1013
sqlstate: 38S5D

GSE1014N  Spatial Extender was unable to register a column named schema-name.table-name.column-name because it is not a spatial column.

Explanation: Either this column does not have a spatial data type, or it does not belong to a local table.

User response: Define a spatial data type for column schema-name.table-name.column-name, or specify a column with a spatial data type as declared type.

msgcode: -1014
sqlstate: 38S5E

GSE1015N  A spatial reference system named srs-name does not exist.

Explanation: The requested operation cannot be completed successfully because a spatial reference system with the name srs-name does not exist.

User response: Specify an existing spatial reference system and retry the operation.

msgcode: -1015
sqlstate: 38S5F

GSE1016N  A spatial reference system whose numeric identifier is srs-id does not exist.

Explanation: The requested operation could not be completed successfully because a spatial reference system with the specified numeric identifier srs-id does not exist.

User response: Specify an existing spatial reference system identifier and retry the operation.

msgcode: -1016
sqlstate: 38S5G

GSE1017N  A coordinate system named coordsys-name already exists.

Explanation: A coordinate system named coordsys-name already exists. Another coordinate system with the same name cannot be created.

User response: Specify a unique name for the new coordinate system.

msgcode: -1017
sqlstate: 38S5H

GSE1018N  A coordinate system named coordsys-name does not exist.

Explanation: The requested operation cannot be completed successfully because a coordinate system with the name coordsys-name does not exist.

User response: Specify the name of an existing coordinate system.

msgcode: -1018
sqlstate: 38S5I

GSE1019N  No values of the spatial coordinate system coordsys-name are specified.

Explanation: You attempted to alter the coordinate system coordsys-name, but did not specify any new values.

User response: Specify at least one new value for the coordinate system.

msgcode: -1019
sqlstate: 38S5J

GSE1020N  A spatial reference system named srs-name already exists.

Explanation: A spatial reference system named srs-name already exists. Another spatial reference system with the same name cannot be created.

User response: Specify a unique name for the spatial reference system to be created and retry the operation.

msgcode: -1020
sqlstate: 38S5K
GSE1021N  A spatial reference system named
\textit{srs-name} does not exist.

\textbf{Explanation:} The requested operation cannot be completed successfully because a spatial reference system with the name \textit{srs-name} does not exist.

\textbf{User response:} Specify a name of an existing spatial reference system and retry the operation.

\textbf{msgcode:} -1021

\textbf{sqlstate:} 38S5L

GSE1022N  A spatial reference system whose numeric identifier is \textit{srs-id} does not exist.

\textbf{Explanation:} The requested operation cannot be completed successfully because a spatial reference system with the numeric identifier \textit{srs-id} does not exist.

\textbf{User response:} Specify an existing numeric identifier for the spatial reference system.

\textbf{msgcode:} -1022

\textbf{sqlstate:} 38S5M

GSE1023N  A coordinate system whose numeric identifier is \textit{coordsys-id} does not exist.

\textbf{Explanation:} The requested operation cannot be completed successfully because a coordinate system with the numeric identifier \textit{coordsys-id} does not exist.

\textbf{User response:} Specify an existing numeric identifier for the coordinate system and retry the operation.

\textbf{msgcode:} -1023

\textbf{sqlstate:} 38S5N

GSE1024N  No values of the spatial reference system \textit{srs-name} are specified.

\textbf{Explanation:} You attempted to alter the spatial reference system \textit{srs-name}, but did not specify any new values.

\textbf{User response:} Specify at least one new value for the spatial reference system and then try the operation again.

\textbf{msgcode:} -1024

\textbf{sqlstate:} 38S5O

GSE1025N  A geocoder whose function name is \textit{schema-name.function-name} could not be found in the database.

\textbf{Explanation:} The requested operation cannot be completed successfully because Spatial Extender could not locate a function named \textit{schema-name.function-name} for the geocoder.

\textbf{msgcode:} -1025

\textbf{sqlstate:} 38S5P

GSE1026N  The specified number of default parameter values (\textit{number1} values), does not match with the number of default parameter values (\textit{number2} values) that the specified geocoder requires.

\textbf{Explanation:} The specified geocoder could not be registered because you did not specify the complete list for all the parameter values that the geocoder requires.

\textbf{User response:} Correct the number of default parameter values. Specify a default value for each of the parameters of the geocoder or specify a null value for the default parameter values.

\textbf{msgcode:} -1026

\textbf{sqlstate:} 38S5Q

GSE1027N  The specified number of parameter description values (\textit{number1} values) does not match with the number of parameter description values (\textit{number2} values) that the specified geocoder requires.

\textbf{Explanation:} The specified geocoder could not be registered because you did not specify the complete list for all the parameter description values that the geocoder requires.

\textbf{User response:} Specify a description for each of the parameters of the geocoder, or specify a null value for the parameter descriptions.

\textbf{msgcode:} -1027

\textbf{sqlstate:} 38S5R

GSE1028N  A geocoder named \textit{geocoder-name} does not exist.

\textbf{Explanation:} The requested operation cannot be completed successfully because a geocoder with the name \textit{geocoder-name} does not exist.

\textbf{User response:} Specify an existing geocoder name or register the geocoder with the name that you specified and then try the operation again.

\textbf{msgcode:} -1028

\textbf{sqlstate:} 38S5S
GSE1029N Geocoding has not been set up for a column named `schema-name.table-name.column-name`.

Explanation: The requested operation cannot be completed successfully because geocoding has not been set up for the column named `schema-name.table-name.column-name`.

User response: Set up geocoding for the specified column, or correct the table schema, table name, and column name.

msgcode: -1029
sqlstate: 38S5T

GSE1030N Auto-geocoding is enabled for column `schema-name.table-name.column-name` and the geocoding setup cannot be removed.

Explanation: Auto-geocoding have been enabled for the column named `schema-name.table-name.column-name`. Therefore, the geocoding setup for this column cannot be removed.

User response: Disable auto-geocoding for the column.

msgcode: -1030
sqlstate: 38S5U

GSE1031N Auto-geocoding for a column named `schema-name.table-name.column-name` is not enabled.

Explanation: Auto-geocoding has not been enabled for column `schema-name.table-name.column-name`. Therefore, auto-geocoding cannot be disabled for this column.

User response: Specify a correct column name on which auto-geocoding is enabled.

msgcode: -1031
sqlstate: 38S5V

GSE1032N Auto-geocoding for a column named `schema-name.table-name.column-name` is already enabled.

Explanation: Auto-geocoding has already been enabled for the column named `schema-name.table-name.column-name`. Auto-geocoding cannot be enabled again for this column unless it is disabled first.

User response: Specify a correct name for a column for which (1) auto_geocoding is not enabled and (2) geocoding is set up.

msgcode: -1032
sqlstate: 38S5W

GSE1033N A geocoder whose numeric identifier is `geocoder-id` does not exist.

Explanation: The requested operation cannot be completed successfully because a geocoder with the numeric identifier `geocoder-id` does not exist.

User response: Specify an existing numeric identifier for the geocoder, or register a geocoder with numeric identifier `geocoder-id`.

msgcode: -1033
sqlstate: 38S5X

GSE1034N The parameters passed to the stored procedure do not include a parameter `parameter-name`.

Explanation: The SQLDA that was passed to the stored procedure is too small. It does not contain an entry for parameter `parameter-name`.

User response: Correct the parameters that are being passed to the stored procedure.

msgcode: -1034
sqlstate: 38S5Y

GSE1035N The `parameter-name` parameter, which is being passed to the stored procedure, has an incorrect data type.

Explanation: The data type for parameter `parameter-name` that is passed to the stored procedure is not correct.

User response: Correct the parameters that are being passed to the stored procedure.

msgcode: -1035
sqlstate: 38S5Z

GSE1036N The operation was successful. But values of certain database manager and database configuration parameters should be increased.

Explanation: The operation was successful, but Spatial Extender needs more database and database manager resources. These resources can be obtained by increasing the values of certain database manager and database configuration parameters.

User response: Some configuration parameters should be increased. For example, for the database configuration, check the APPLHEAPSZ parameter. Refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User's Guide and Reference for more details.

msgcode: +1036
sqlstate: 38S60
GSE1037N  The definition of the specified coordinate system named coordsys-name is invalid.

Explanation: A coordinate system named coordsys-name cannot be created because the definition given for it is invalid.

User response: Specify a correct definition for the coordinate system.

The function ST_EqualCoordsys can be used to verify the definition by comparing the coordinate system with itself.

msgcode: -1037
sqlstate: 38S61

GSE1038N  The WHERE clause specified for the geocoder named geocoder-name is invalid. When Spatial Extender attempted to verify the clause, it encountered SQL error sql-error.

Explanation: The geocoding that you requested cannot be completed successfully because the WHERE clause that determines which rows are to be geocoded is invalid.

User response: Specify a syntactically correct WHERE clause.

msgcode: -1038
sqlstate: 38S62

GSE1039N  A coordinate system identified by the specified identifier organization-coordsys-id in combination with the specified organization organization already exists.

Explanation: Your request to create a coordinate system could not be met because the combination of identifiers that you specified for the coordinate system (the name of the organization that defined the system and a number that this organization assigned to it) was not unique. Either these two values must be unique in combination, or they must be null.

User response: Specify a unique set of values for organization and organization-coordsys-id, or choose null values for both.

msgcode: -1039
sqlstate: 38S63

GSE1040N  A spatial reference system with the numeric identifier srs-id already exists.

Explanation: Your request to create a spatial reference system could not be met because the numeric identifier srs-id that you assigned to it already identifies another spatial reference system. A spatial reference system's identifier must be unique.

User response: Specify a unique numeric identifier for the spatial reference system.

msgcode: -1040
sqlstate: 38S64

GSE1041N  A coordinate system with the numeric identifier coordsys-id already exists.

Explanation: Your request to create a coordinate system could not be met because the numeric identifier coordsys-id that you assigned to it already identifies another spatial coordinate system. A spatial coordinate system's identifier must be unique.

User response: Specify a unique value coordsys-id for the coordinate system.

msgcode: -1041
sqlstate: 38S65

GSE1042N  A geocoder with the numeric identifier geocoder-id already exists.

Explanation: Your request to register a geocoder could not be met because the numeric identifier for the geocoder geocoder-id already identifies another geocoder. A geocoder's identifier must be unique.

User response: Specify a unique value for the numeric geocoder identifier.

msgcode: -1042
sqlstate: 38S66

GSE1043N  The specified grid index schema-name/index-name already exists.

Explanation: This index already exists. It must be dropped before an index with the same name can be created.

User response: Specify a name for the index that does not yet exist, or drop the existing index and retry the operation.

msgcode: -1043
sqlstate: 38S67

GSE1044N  The specified coordinate system coordsys-name cannot be dropped because an existing spatial reference system is based on this coordinate system.

Explanation: At least one spatial reference system exists that is based on the specified coordinate system coordsys-name. The coordinate system cannot be dropped.

User response: Drop all spatial reference systems that
GSE1045N  The specified spatial reference system srs-name cannot be dropped because a spatial column is registered with this spatial reference system.

Explanation: At least one spatial column exists that is associated with the specified spatial reference system srs-name. The spatial reference system cannot be dropped.

User response: Unregister all spatial columns that are associated with the specified spatial reference system. Then try to drop the spatial reference system again.

`msgcode: -1045`  
`sqlstate: 38S69`

GSE1046N  The specified geocoder geocoder-name cannot be unregistered because it is used in a geocoding setup.

Explanation: At least one geocoding setup exists that uses the specified geocoder geocoder-name. The geocoder cannot be unregistered.

User response: Remove all geocoding setups that use the specified geocoder. Then try to unregister the geocoder again.

`msgcode: -1046`  
`sqlstate: 38S6A`

GSE1047N  Geocoder parameter validation failed. SQLERROR = sql-error.

Explanation: Validation of the geocoder parameters failed. DB2 returned sql-error. Geocoder parameters may have been specified when the geocoder was registered, during geocoding setup or both.

User response: Use the information in sql-error to determine which parameter is invalid. Correct the value and resubmit your request.

`msgcode: -1047`  
`sqlstate: 38S6B`

GSE1048N  The spatial reference system with numeric identifier srs-id is a predefined geodetic spatial reference system and cannot be altered.

Explanation: The spatial reference system was not altered. Spatial reference systems with numeric identifiers in the range 2000000318 to 2000001000 are predefined geodetic spatial reference systems and cannot be altered.

User response: Do not attempt to alter this spatial reference system. If a geodetic spatial reference system with a different definition is needed, you can create a new geodetic spatial reference system with the numeric identifier in the range 2000000318 to 2000001000.

`msgcode: -1048`  
`sqlstate: 38SP3`

GSE2100N  The number of attribute columns being imported (input-columns columns) does not match the number of attribute columns in the target table (table-columns columns).

Explanation: If you are importing columns that contain attribute data, you have the choice of either specifying or not specifying which attribute columns are being imported and which columns are in the target table. If you specify these values, this error occurs when the specified number of attribute columns being imported differs from the specified number of columns in the target table. If you do not specify these values, this error occurs when the actual number of columns being imported differs from the actual number of attribute columns in the target table.

User response: Make sure that the number of specified or actual attribute columns being imported matches the number of specified or actual columns in the target table.

`msgcode: -2100`  
`sqlstate: 38S70`

Part 16.GSE Messages  845
### GSE2101N - The data type `schema-name.type-name` to be used during import is unknown to DB2.

**Explanation:** The spatial data type `schema-name.type-name` cannot be used during the import of spatial data because it does not exist in the database.

**User response:** Create the data type in the database or use a data type that exists.

**msgcode:** -2101  
**sqlstate:** 38S71

### GSE2102N - The table specified for import, `schema-name.table-name`, does not exist.

**Explanation:** A table named `schema-name.table-name` does not exist in the database. Also, Spatial Extender was not asked to create a table to hold the data that is to be imported. The data was not imported.

**User response:** If the table is to be created by Spatial Extender, specify the appropriate flag. Otherwise, create the table and retry the operation.

**msgcode:** -2102  
**sqlstate:** 38S72

### GSE2103N - The table specified for import `schema-name.table-name` already exists.

**Explanation:** Spatial Extender was asked to create a table named `schema-name.table-name` for the imported data, but a table with that name already exists in the database. No data was imported.

**User response:** If the table is not to be created by Spatial Extender, do not indicate that the table is to be created. Otherwise, specify the name for a table which does not yet exist in the database.

**msgcode:** -2103  
**sqlstate:** 38S73

### GSE2104N - The column `schema-name.table-name.column-name` to import data into does not exist.

**Explanation:** The column into which you want to import data `column-name` does not exist in the table `schema-name.table-name`. No data can be imported into it.

**User response:** Correct the column name or create the column in the table that is to be imported, or correct the table name.

**msgcode:** -2104  
**sqlstate:** 38S74

### GSE2105W - The import operation completed successfully but not all records from the file were imported.

**Explanation:** The import operation completed successfully but not all records from the file were imported. The exception file contains the records that could not be imported, and the messages file contains information why those records were not imported.

**User response:** Consult the messages file for the reason why not all records were imported, correct the problem and repeat the operation with the original file or the exception file.

**msgcode:** +2105  
**sqlstate:** 38S75

### GSE2106N - The data type of the column `schema-name.table-name.column-name` is `column-type`, which does not match the expected type `expected-type` for the data to be imported from file.

**Explanation:** The column `column-name` in the table `schema-name.table-name` to import data into has a declared type `column-type` which does not match the type name `expected-type` for the data to be imported from the file. No data can be imported.

**User response:** Verify the definition of the table with the structure of the file to be imported.

**msgcode:** -2106  
**sqlstate:** 38S76

### GSE2107N - The table to import data into could not be created due to error `sql-error`.

**Explanation:** Spatial Extender was asked to create a table to import data into, but the table could not be created successfully. DB2 returned `sql-error`.

**User response:** Refer to the description of this `sql-error`.

**msgcode:** -2107  
**sqlstate:** 38S77

### GSE2108N - The method specification `method` to identify the attribute columns to be imported from the file is not correct.

**Explanation:** Either no method specification was given or `method` is not a valid method specification. Only 'N' and 'P' are supported method specifications for importing spatial data from a file.

**User response:** Correct the method specification and try the method again.

**msgcode:** -2108
sqlstate: 38S78

GSE2109N A character found-char was found when a character expected-char was expected.

Explanation: An unexpected character found-char was found in the string that identifies the attribute columns to be imported from the file but expected-char was expected. The statement cannot be processed successfully.

User response: Correct the string that identifies the attribute columns to be imported from the file.

msgcode: -2109
sqlstate: 38S78

---

GSE2110N The column position identifier position in the string string is invalid.

Explanation: The column position identifier position specified in the string starting with string is not in the valid range. Only values greater than 0 (zero) and less than or equal to the number of columns in the file to be imported can be specified. The statement cannot be processed successfully.

User response: Correct the column position identifier.

msgcode: -2110
sqlstate: 38S7A

---

GSE2111N A column named dbf-column-name in the dBASE file is too long.

Explanation: The name of column dbf-column-name in the dBASE file (.dbf) exceeds DB2’s limit for column names.

User response: Specify a dbf-column-name that does not exceed DB2’s length limit.

msgcode: -2111
sqlstate: 38S7B

---

GSE2112N The column dbf-column-name cannot be found in the dBASE file.

Explanation: The name dbf-column-name does not identify an existing attribute column in the dBASE file (.dbf). The operation cannot be completed successfully.

User response: Specify a column name that exists in the dBASE file.

msgcode: -2112
sqlstate: 38S7C

---

GSE2113N The dBASE file data type dbf-data-type for the column dbf-column-name in the dBASE file is not supported.

Explanation: The dBASE file data type dbf-data-type for the attribute column dbf-column-name in the dBASE file (.dbf) cannot be mapped to a data type in the DB2 database. The shape file cannot be imported.

User response: Exclude the column from the column list.

msgcode: -2113
sqlstate: 38S7D

---

GSE2114N The column position position is out of range. The dBASE file contains dbf-column-number columns.

Explanation: The specified column position position must be a value within the valid range. A valid value must greater than 0 (zero) and less than or equal to the dbf-column-number.

User response: Specify a valid position.

msgcode: -2114
sqlstate: 38S7E

---

GSE2115N A spatial reference system whose numeric identifier is srs-id does not exist.

Explanation: A spatial reference system whose numeric identifier is srs-id does not exist. The data cannot be imported.

User response: Either specify an existing spatial reference system, or create the spatial reference system before attempting the import operation.

msgcode: -2115
sqlstate: 38S7F

---

GSE2116N The coordinate system definition coordsys-def is too long.

Explanation: The coordinate system definition coordsys-def used for the spatial data to be imported is too long. It could not be verified with the coordinate system that underlies the spatial reference system that is to be used for the imported data.

User response: Verify that the coordinate system defined in the projection file (.prj) is correct. To skip the verification step, do not supply the projection file.

msgcode: -2116
sqlstate: 38S7G
GSE2117N - The coordinate system definition
(coordsys-def) does not match the coordinate system definition on which the spatial reference system (srs-id) is based.

Explanation: The coordinate system coordsys-def does not match the coordinate system on which the spatial reference system srs-id is based. Both coordinate systems must be semantically identical.

User response: Verify that the coordinate system defined in the projection file (.prj) matches the coordinate system of the spatial reference system. To skip the verification step, do not supply the projection file.

msgcode: -2117
sqlstate: 38S7H

GSE2118N - The spatial data does not fit into the spatial reference system with the numeric identifier srs-id.

Explanation: The spatial data covers an area that exceeds the minimum and maximum coordinates of the spatial reference system with the numeric identifier srs-id.

User response: Specify a spatial reference system which may fully contain the spatial data to be imported. Refer to the DB2GSE.ST_SPATIAL_REFERENCE_SYSTEMS catalog view for the minimum and maximum coordinate values applicable for the spatial reference system.

msgcode: -2118
sqlstate: 38S7I

GSE2119N - The imported data's spatial reference system, whose numerical identifier is srs-id1, does not match the target column's spatial reference system, whose numeric identifier is srs-id2. The target column's name is schema-name.table-name.column-name.

Explanation: The spatial column schema-name.table-name.column-name was registered with a spatial reference system srs-id2 assigned to it. This spatial reference system does not match the spatial reference system srs-id1, which is used for the spatial data to be imported into that column. The data cannot be imported.

User response: Either unregister the spatial column, or specify the same spatial reference system for the data to be imported that the column uses.

msgcode: -2119
sqlstate: 38S7J

GSE2120N - No data was imported.

Explanation: None of the shape data could be imported. All rows were rejected and written to the exception file.

User response: Consult the message file for the reasons why all the spatial data was rejected.

msgcode: -2120
sqlstate: 38S7K

GSE2121N - The value restart-count specifying the record to restart the operation is out of range. The shape file contains record-count records.

Explanation: The specified restartCount restart-count must be a greater than or equal to 0 (zero), and less than or equal to record-count.

User response: Specify a valid number for restartCount, or specify a null value for the resartCount.

msgcode: -2121
sqlstate: 38S7L

GSE2122N - The SQL statement used to import the shape data does not fit into the internal buffer.

Explanation: The SQL statement used to import the shape data into the table does not fit into the internal buffer. A possible reason for this might be too many columns are in the file.

User response: Import a smaller set of the attribute columns in the shape file.

msgcode: -2122
sqlstate: 38S7M

GSE2123N - A buffer to hold the data for row-count rows cannot be allocated.

Explanation: Spatial Extender tried to use a single INSERT statement to import at least row-count rows, but a buffer to hold the data for these rows could not be allocated. Too much memory was required.

User response: Specify a commit count for the import that is less than row-count. Or, specify a smaller set of columns to be imported. This will reduce the amount of memory required.

msgcode: -2123
sqlstate: 38S7N
GSE2124N  An invalid type identifier type-id was found in the header of the shape file to be imported.

Explanation: The data in the shape file does not appear to have a valid spatial data type. The shape file is possibly corrupted. The data was not imported.
User response: Verify that the shape file is valid.
msgcode: -2124
sqlstate: 38S7O

GSE2125N  A column in the shape file has an unsupported data type type.

Explanation: The shape file contains a column whose data type is not supported by Spatial Extender. The shape file could not be imported.
User response: Import only a smaller set of the columns of the shape file and omit the column with the unsupported data type.
msgcode: -2125
sqlstate: 38S7P

GSE2126N  The header of the shape file shape-file is invalid.

Explanation: The header of the shape file shape-file is invalid. The shape file cannot be imported.

The extension of the file name shape-file indicates in which part of the shape file the error was encountered. The file extensions include:

- .shp  main file
- .shx  index file
- .dbf  dBASE file
- .pri  projection file

User response: Verify and correct the header of the shape file.
msgcode: -2126
sqlstate: 38S7Q

GSE2127N  The offset offset for the record record-number in the shape index file shx-file is invalid.

Explanation: The offset offset for the record record-number in the index file (.shx) shx-file is invalid. The offset must be greater than or equal to 50 and less than the total length of the main file (.shp) of the shape file. The offset is measured in 16 bit words.
User response: Verify and correct the shape file.
msgcode: -2127
sqlstate: 38S7R

GSE2128N  The length of the shape in record record-number of the shape index file shx-file is too short.

Explanation: The length of the shape in record record-number found in the shape index file shx-file is too short. Each shape must consist of at least 4 bytes (two 16 bit words).
User response: Verify and correct the shape file.
msgcode: -2128
sqlstate: 38S7S

GSE2129N  Spatial Extender found an incorrect record number record-number in the shape file shp-file when expecting record number expected-number.

Explanation: Spatial Extender found an incorrect record number record-number in the shape file shp-file when expecting record number expected-number.
User response: Verify and correct the shape file.
msgcode: -2129
sqlstate: 38S7T

GSE2130N  The size of the shape data record-size indicated in the shape file shp-file does not match the size indicated in the shape index file index-size.

Explanation: The size of the shape data record-size indicated in the shape file shp-file does not match the size indicated in the shape index file index-size.

The main file of the shape file (.shp) is not consistent with the index file (.shx) and cannot be processed further.
User response: Verify and correct the shape file.
msgcode: -2130
sqlstate: 38S7U

GSE2131N  The data for record record-number in the dBASE file dbf-file is invalid.

Explanation: The data for record record-number in the dBASE file dbf-file that contains the attribute information associated with the geometries in the shape file is invalid.

Possible explanations are:
- The first byte of the record is neither an asterisk (*) nor a space (" ").
- The sum of all lengths of the columns in the dBASE file (.dbf) must be equal to the record size indicated in the header of the file.
User response: Verify and correct the dBASE file.
GSE2132N  The data in shape file \textit{shape-file} is invalid.

Explanation: The data in shape file \textit{shape-file} is corrupted. This shape file cannot be imported.

User response: Verify and correct the shape file.

GSE2133N  The import operation failed because the column \textit{schema-name.table-name.column-name} is not nullable.

Explanation: The definition of the column \textit{column-name} in the existing table \textit{schema-name.table-name} indicates that the column may not contain nulls. The column is not included in the list of columns to be imported and DB2 would not produce the values for that column by any other means like default values, a generated column definition or any triggers.

User response: Include the column in the list of columns to be imported, identify the column as id-column, or define an alternate way for DB2 to generate the values for that column during the import operation.

GSE2134N  The spatial reference system associated with the data to be imported is not identical with the spatial reference system with the numeric identifier \textit{srs-id}.

Explanation: The spatial data in the file to be imported uses a spatial reference system with different offsets and scale factors than the spatial reference system with the numeric identifier \textit{srs-id}. The data cannot be imported successfully.

User response: Specify a spatial reference system which has the same definition as the spatial reference system required by the data in the file to be imported. Refer to the DB2GSE.ST_SPATIAL_REFERENCE_SYSTEMS catalog view for the minimum and maximum coordinate values and the offsets and scale factors applicable for the spatial reference system.

msgcode: -2131
sqlstate: 38S7V
**GSE2204N** The column name `column-name` exceeds the limit of 11 characters for dBASE files.

**Explanation:** The column name `column-name` exceeds the restriction of 11 bytes for dBASE files. No data is exported.

**User response:** Specify a column name with 11 or less bytes for the attribute data to be exported to the dBASE file (.dbf).

`msgcode`: -2204

`sqlstate`: 38S94

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**GSE2205W** DB2 returned a SQL warning `sql-warning` when Spatial Extender fetched the data to be exported.

**Explanation:** DB2 returned a SQL warning `sql-warning` when Spatial Extender fetched the data to be exported. The warning was ignored and the data exported.

**User response:** Refer to the description of `sql-warning`. If the warning is not acceptable, correct the source of the warning and export the data again.

`msgcode`: +2205

`sqlstate`: 38S95

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**GSE2206W** No data was exported.

**Explanation:** The SELECT statement specified for the export did not retrieve any rows. No data was exported.

**User response:** Specify a SELECT statement that returns at least one row to be exported.

`msgcode`: +2206

`sqlstate`: 38S96

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**GSE2207W** Not all rows referenced by the SELECT statement were exported.

**Explanation:** The SELECT statement identified more rows than were exported. This error can occur if an error is encountered during the export and the operation is terminated.

**User response:** Consult the message file.

`msgcode`: +2207

`sqlstate`: 38S97

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**GSE2208N** In row `row-number`, a geometry to be exported is associated with a spatial reference system whose numeric identifier is `srs-id1`. This identifier does not match the numeric identifier `srs-id2` of the spatial reference system used for geometries in the preceding rows.

**Explanation:** In row `row-number`, a geometry to be exported is associated with a spatial reference system whose numeric identifier is `srs-id1`. This identifier does not match the numeric identifier `srs-id2` of the spatial reference system used for geometries in the preceding rows. The row `row-number` was not exported.

**User response:** Verify that all geometries to be exported have the same spatial reference system identifier. If not, use the ST_Transform method in the SELECT statement to convert all geometries to the same spatial reference system.

`msgcode`: -2208

`sqlstate`: 38S98

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**GSE2209N** The geometry in row `row-number` to be exported is a null value.

**Explanation:** The notion of null values is not supported by the data in the file to which you want to export geometries. The geometry to be exported in row `row-number` is a null value and cannot be exported.

**User response:** Exclude rows with geometries that are null values from the export by modifying the SELECT statement accordingly.

`msgcode`: -2209

`sqlstate`: 38S99

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**GSE2210N** The spatial reference system for the geometry in row `row-number` is invalid. This spatial reference system's numerical identifier is `srs-id`.

**Explanation:** In row `row-number`, the geometry that is to be exported uses an invalid spatial reference system. The geometry cannot be exported.

**User response:** Correct the indicated geometry or exclude the row from the export operation by modifying the SELECT statement accordingly.

`msgcode`: -2210

`sqlstate`: 38S9A

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**GSE2211N** The spatial data to be exported is associated with a spatial reference system whose numeric identifier is `srs-id`. The coordinate system on which this spatial reference system is based does not match the coordinate system definition `coordsys-def` for the file to which the exported data is to be appended.

**Explanation:** The spatial data to be exported is associated with a spatial reference system whose numeric identifier is `srs-id`. The coordinate system on which this spatial reference system is based does not match the coordinate system `coordsys-def` for the file to be appended.

**User response:** Consult the message file.
which the exported data is to be appended. No data was exported.

User response: Append the data to a file which has a matching coordinate system, transform the spatial data to the corresponding coordinate system, or export the data to a separate file.

msgcode: -2211
sqlstate: 38S9B

GSE2212N The attribute data does not match the dBASE file.

Explanation: The specified SELECT statement for the export operation produces attribute data that does not match the dBASE file (.dbf).
The attribute data from the SELECT statement for the export operation cannot be appended to the dBASE file. Possible causes are:
• The number of columns do not match.
• The data type of column does not match.
• The attribute column name does not match.
User response: Either correct the SELECT statement, or do not append to the specified dBASE file.

msgcode: -2212
sqlstate: 38S9C

GSE2213W The geometry to be exported to the file in row row-number is a null value.

Explanation: The geometry to be exported to the file in row row-number is a null value. The row was not exported.
User response: Modify the SELECT statement to exclude geometries that have null values.

msgcode: +2213
sqlstate: 38S9D

GSE2214W Not enough memory is available to export the geometry in row row-number.

Explanation: Not enough memory is available to export the geometry in row row-number. The row was not exported, but the exporting operation continued.
User response: Provide more memory, or modify the SELECT statement to exclude the geometry from that row.

msgcode: +2214
sqlstate: 38S9E

GSE2215W The geometry to be appended to the shape file as number record-number has a shape type geometry-shape-type which does not match the type in the shape file file-shape-type.

Explanation: The geometry to be appended to the shape file as number record-number has a shape type geometry-shape-type which does not match the type in the shape file file-shape-type. The geometry cannot be exported to that file.

Possible shape types are:
0 Empty geometry.
1 Point without Z coordinates and measures.
3 Linestring or multilinestring without Z coordinates and measures.
5 Polygon or multipolygon without Z coordinates and measures.
8 Multipoint without Z coordinates and measures.
9 Point with Z coordinate and no measures.
10 Linestring or multilinestring with Z coordinates and no measures.
11 Point with Z coordinate and measure.
13 Linestring or multilinestring with Z coordinates and measures.
15 Polygon or multipolygon with Z coordinates and measures.
18 Multipoint with Z coordinates and measures.
19 Polygon or multipolygon with Z coordinates and no measures.
20 Multipoint with Z coordinates and no measures.
21 Point with measure and no Z coordinates.
23 Linestring or multilinestring with measures and no Z coordinates.
25 Polygon or multipolygon with measures and no Z coordinates.
28 Multipoint with measures and no Z coordinates.

User response: Convert the geometry to the correct type, or export it to another shape file.

msgcode: +2215
sqlstate: 38S9F
GSE2216N The shape data to be exported is invalid.

Explanation: Before Spatial Extender exports geometries to a shape file, it converts them into shape data. This error was returned because the shape data into which a geometry was converted is invalid. The geometry was not exported.

Possible explanations are:
- The shape data has an odd number of bytes.
- The shape data is too short to contain all information.
- An unknown shape indication was returned.
- The information about the minimum bounding rectangle is not consistent with the type indication.

User response: Contact IBM Software Support.

msgcode: -2216
sqlstate: 38S9G

GSE2217N The column name column-name is a duplicate in the output column list.

Explanation: The column name column-name appears more than once in the output column list. All column names in the list must be unique. No data is exported.

User response: Specify a unique column name in the output column list.

All column names for dBASE files (.dbf) must at most consist of 11 bytes, and all column names for SDEX files must at most consist of 32 bytes.

msgcode: -2217
sqlstate: 38S9I

GSE2299N The shape file file-name has an invalid file size.

Explanation: Shape file file-name has an invalid file size. Shape files have a file size that is a multiple of 16-bit words. Therefore, their size is always even. The shape file might be corrupt. It cannot be used.

User response: Verify and correct the shape file.

msgcode: -2299
sqlstate: 38S9H

GSE2500N The header of the SDEX file file-name is invalid.

Explanation: The header of the SDEX file file-name is invalid. The SDEX file cannot be opened successfully.

User response: Verify and correct the header of the SDEX file.

msgcode: -2500
sqlstate: 38SA4

GSE2501N The coordinate system parameters could not be read from the SDEX file file-name.

Explanation: The SDEX file file-name contains an invalid data for the coordinate system definition. The SDEX file cannot be opened successfully.

User response: Verify and correct the coordinate system definition stored in the SDEX file.

msgcode: -2501
sqlstate: 38SA1

GSE2502N The column definitions could not be read from the SDEX file file-name.

Explanation: The SDEX file file-name contains invalid data for the column definitions. The SDEX file cannot be opened successfully.

User response: Verify and correct the column definitions stored in the SDEX file.

msgcode: -2502
sqlstate: 38SA2

GSE2503N A column in the SDEX file has an unsupported data type type.

Explanation: The SDEX file contains a column whose data type is not supported by Spatial Extender. The SDEX file could not be imported.

User response: Import only a smaller set of the columns of the SDEX file and omit the column with the unsupported data type.

msgcode: -2503
sqlstate: 38SA3

GSE2504N The column position position is out of range. The SDEX file contains only column-number columns.

Explanation: The specified column position position must be a value within the valid range. A valid value must greater than 0 (zero) and less than or equal to the column-number.

User response: Specify a valid position.

msgcode: -2504
sqlstate: 38SA4

GSE2505N A column named column-name in the SDEX file is too long.

Explanation: The name of column column-name in the SDEX file exceeds DB2's limit for column names.
User response: Specify a column-name that does not exceed DB2's length limit.
msgcode: -2505
sqlstate: 38SA5

GSE2506N The column column-name cannot be found in the SDEX file.
Explanation: The name column-name does not identify an existing attribute column in the SDEX file. The operation cannot be completed successfully.
User response: Specify a column name that exists in the SDEX file.
msgcode: -2506
sqlstate: 38SA6

GSE2507N The SDEX file data type data-type for the column column-name in the SDEX file is not supported.
Explanation: The SDEX file data type data-type for the attribute column column-name in the SDEX file cannot be mapped to a data type in the DB2 database. The SDEX file cannot be imported.
User response: Exclude the column from the column list.
msgcode: -2507
sqlstate: 38SA7

GSE2508N Multiple spatial columns exist in the SDEX file file-name.
Explanation: Spatial Extender detected the existence of more than one spatial column in the SDEX file file-name. Only one spatial column is allowed. The file cannot be imported successfully.
User response: Correct the SDEX file so that it contains only one spatial column.
msgcode: -2508
sqlstate: 38SA8

GSE2509N Could not read record record-number from the SDEX file file-name. Reason code: reason-code
Explanation: The record record-number could not be read from the SDEX file file-name.
Reasons why the record could not be read, preceded by their reason codes, are as follows:
-1 An internal error occurred.
-13 Not enough memory is available.
User response: Depending on the reason code, verify and correct the SDEX file, or resolve the memory shortage.
msgcode: -2509
sqlstate: 38SA9

GSE2600N Could not write header of the SDEX file file-name.
Explanation: The header of the SDEX file file-name could not be written successfully.
User response: Repeat the command. If the problem persists, contact IBM Software Support.
msgcode: -2600
sqlstate: 38SF0

GSE2601N Could not write coordinate system parameters to the SDEX file file-name.
Explanation: The coordinate system parameters could not be written to the SDEX file file-name successfully.
User response: Repeat the command. If the problem persists, contact IBM Software Support.
msgcode: -2601
sqlstate: 38SF1

GSE2602N Could not write column definitions to the SDEX file file-name.
Explanation: The column definitions could not be written to the SDEX file file-name successfully.
User response: Repeat the command. If the problem persists, contact IBM Software Support.
msgcode: -2602
sqlstate: 38SF2

GSE2603N The column name column-name exceeds the limit of 32 characters for SDEX files.
Explanation: The column name column-name exceeds the restriction of 32 bytes for SDEX files. No data is exported.
User response: Specify a column name with 32 or less bytes for the data to be exported to the SDEX file.
msgcode: -2603
sqlstate: 38SF3

GSE2604N The SQL data type data-type for column column-number in the fullselect describing the data to be exported is not supported for SDEX files.
Explanation: The SQL data type data-type for column column-number in the fullselect describing the data to be
exported is not supported for SDEX files. No data can be exported.

**User response:** Do not specify a column with the unsupported type in the `SELECT` statement for the export sde operation. You can use the `DESCRIBE` command to verify the data types for all columns in the result of the `SELECT` statement.

**msgcode:** -2604

**sqlstate:** 38SF4

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**GSE2605N** Could not write record `record-number` to the SDEX file `file-name`.

**Explanation:** The record `record-number` could not be written to the SDEX file `file-name` successfully.

**User response:** Repeat the command. If the problem persists, contact IBM Software Support.

**msgcode:** -2605

**sqlstate:** 38SF5

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**GSE3000N** Null SRS identifier.

**Explanation:** A null value was passed to the function or method instead of a numeric spatial reference system identifier.

**User response:** Specify a numeric spatial reference system identifier for an existing spatial reference system. Refer to the Spatial Extender catalog view DB2GSE.ST_SPATIAL_REFERENCE_SYSTEMS for the defined spatial reference systems.

**msgcode:** -3000

**sqlstate:** 38SU0

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**GSE3001N** Invalid SRS identifier `srs-id`.

**Explanation:** The spatial reference system identifier `srs-id` that was provided to the spatial function or method does not identify an existing spatial reference system.

**User response:** Specify an existing numeric spatial reference system identifier that is defined in the Spatial Extender catalog view DB2GSE.ST_SPATIAL_REFERENCE_SYSTEMS, or create a spatial reference system that is identified by `srs-id`.

**msgcode:** -3001

**sqlstate:** 38SU1

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**GSE3002N** Null unit name.

**Explanation:** A null was specified as a unit of measure. The specification for a unit of measure must be the unit itself (for example, “meter”). It cannot be a null.

**User response:** Either omit the unit of measure when calling the spatial function or method, or specify an existing unit of measure. Consult the Spatial Extender catalog view DB2GSE.ST_UNITS_OF_MEASURE for supported units.

**msgcode:** -3002

**sqlstate:** 38SU2

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**GSE3003N** Unknown unit `unit-name`.

**Explanation:** The unit `unit-name` that was provided to the spatial function or method does not identify an existing unit of measure.

**User response:** Either omit the unit of measure when calling the spatial function or method, or specify an existing unit of measure. Consult the Spatial Extender catalog view DB2GSE.ST_UNITS_OF_MEASURE for supported units.

**msgcode:** -3003

**sqlstate:** 38SU3

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**GSE3004N** Unsupported conversion to unit `unit-name`.

**Explanation:** The conversion to the unit `unit-name` is not supported.

The functions `ST_Area`, `ST_Buffer`, `ST_Length`, and `ST_Perimeter` cannot accept a linear unit of measure if the given geometry is not in a projected coordinate system.

**User response:** Use one of the following methods:

- Omit the unit of measure when calling the spatial function or method.
- Specify an angular unit of measure.
- Project the geometry into a projected coordinate system using the `ST_Transform` function. Consult the Spatial Extender catalog view DB2GSE.ST_SPATIAL_REFERENCE_SYSTEMS for applicable spatial reference system.

**msgcode:** -3004

**sqlstate:** 38SU4

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**GSE3005N** No unit in SRS.

**Explanation:** The spatial reference system for the geometry does not have an associated linear or angular unit. The operation cannot be performed in the requested unit of measure.

**User response:** Either represent the geometry in a correct spatial reference system, which does have an associated linear or angular unit of measure, or omit the unit parameter when you request the operation.

**msgcode:** -3005

---
GSE3006N  Invalid internal type id.
Explanation: The internal data type identifier for this geometry is a null value and therefore invalid.
This error can occur if the internal representation of the geometry is corrupted, or if the geometry was not constructed by one of the supported constructor functions or methods.
User response: Construct the geometry again by using one of the supported constructor functions or methods.
msgcode: +3006
sqlstate: 38SU6

GSE3007N  Unknown internal type id type-id.
Explanation: The value of the internal type identifier type-id for the geometry is not valid.
This error can occur if the internal representation of the geometry is corrupted, or if the geometry was not constructed by one of the supported constructor functions or methods.
User response: Construct the geometry again by using one of the supported constructor functions or methods.
msgcode: -3007
sqlstate: 38SU7

GSE3008N  Internal type id mismatch (type-id1, type-id2).
Explanation: A mismatch of internal data type identifiers was found. Spatial Extender expected to retrieve a geometry whose internal data type identifier is type-id2, but instead retrieved a geometry whose internal data type identifier is type-id1.
This error can occur if the internal representation of the geometry is corrupted, or if the geometry was not constructed by one of the supported constructor functions or methods.
User response: Construct the geometry again by using one of the supported constructor functions or methods.
msgcode: -3008
sqlstate: 38SU8

GSE3009W  Invalid part number part-number.
Explanation: The specified part number part-number is not valid. A null value was returned.
User response: If the geometry is not empty, then specify a valid part number, which should be greater than 0 (zero) and less than or equal to the maximum number of parts in the geometry collection.
msgcode: -3012
sqlstate: 38SU9

You can use the ST_NumGeometries function to determine the number of parts of the geometry collection.
If the geometry is empty, the method should not be applied.
msgcode: +3009
sqlstate: 01HS0

GSE3010W  Invalid ring number ring-number.
Explanation: The specified number ring-number for an internal ring is not valid. A null value was returned.
User response: If the polygon value is not empty, then specify a valid ring number, which should be greater than or equal to 1 (one) and less than or equal to the maximum number of interior rings in the polygon.
If the polygon is empty, the function or method should not be applied. You can use the function ST_NumInteriorRings to determine the number of interior rings of the polygon.
msgcode: +3010
sqlstate: 01HS1

GSE3011W  Invalid point number point-number.
Explanation: The specified point number point-number is not valid. A null value was returned.
User response: If the curve value is not empty, then specify a valid point number, which should be greater than 0 (zero) and less than or equal to the maximum number of points in the curve. If the curve is empty, the function or method should not be applied.
You can use the ST_NumPoints function to determine the number of points used to define the curve.
msgcode: +3011
sqlstate: 01HS2

GSE3012N  Invalid DE9-IM matrix.
Explanation: The intersection matrix matrix specified for the ST_Relate function is not valid. The matrix must be exactly 9 characters long, and each character in the matrix must be one of the following: 'T', 'F', '0', '1', '2', or '*'.
User response: Specify a valid intersection matrix.
msgcode: -3012
sqlstate: 38SU9

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GSE3013N Exterior ring is no ring.
Explanation: The linestring that is to serve as the new exterior ring for the polygon is not a ring. To be a ring, the linestring must be both simple and closed. One or both of these two conditions is not met.
User response: Specify a simple and closed linestring for the new exterior ring of the polygon.
msgcode: -3013
sqlstate: 38SUA

GSE3014N Interior ring is no ring.
Explanation: The linestring that is to serve as a new interior ring for the polygon is not a ring. To be a ring, the linestring must be both simple and closed. At least one of these two conditions is not met.
User response: Specify a simple and closed linestring for the new interior ring of the polygon.
msgcode: -3014
sqlstate: 38SUB

GSE3015N Reason code = reason-code. Transformation to SRS srs-id failed.
Explanation: The geometry could not be transformed from the spatial reference system it is represented into the spatial reference system with the numeric identifier srs-id. The transform failed with reason code reason-code.
The reason codes have the following meanings:
-2008 The geometry is invalid.
-2018 Not enough memory is available to successfully complete the transformation.
-2020 The spatial reference systems are not compatible. Both spatial reference systems must be based directly or indirectly on the same geographic coordinate system.
-2021 One or more points of the resulting geometry would be outside the maximum possible extent for the new spatial reference system. The resulting geometry cannot be represented in the new spatial reference system.
-2025 The definition of the new spatial reference system is not valid.
-2026 An internal error occurred during the projection of the geometry.
User response: Represent the geometry in a spatial reference system that can be transformed into the spatial reference system identified by srs-id, or specify a different spatial reference system identifier to transform the geometry into.
msgcode: -3015
sqlstate: 38SUH

GSE3016N Unsupported cast type-id1, type-id2.
Explanation: The attempted cast operation from the data type with the internal type identifier type-id1 to the data type with the internal type identifier type-id2 is not supported. The geometry cannot be processed further.
User response: Specify a supported cast operation. For more information, refer to the IBM DB2 SQL Reference for the supported cast functions.
msgcode: -3016
sqlstate: 38SUD

GSE3020N Invalid Z coordinate and measure combination.
Explanation: The geometries that are to be processed by the function or method are not represented using the same dimensions with respect to their Z coordinates and measures. All the geometries must either contain Z coordinates or contain no Z coordinates. All the geometries must either contain measures or contain no measures.
User response: Provide geometries to the function or method that are represented using the same dimensions with respect to their Z coordinates and measures.
msgcode: -3020
sqlstate: 38SUH

GSE3021N Reason code = reason-code. Locator failure.
Explanation: An internal error occurred when a spatial function or method operated on a LOB locator. The reason code reason-code was returned by a locator function.
User response: Refer to the DB2 Application Development Guide to determine the meaning of reason-code returned from the LOB locator operation and correct the problem. If the problem persists, contact IBM Software Support.
msgcode: -3021
sqlstate: 38SUI

GSE3022N Representation too long (append-length vs. written-length bytes).
Explanation: The representation of the geometry in Geographic Markup Language (GML), well-known text (WKT), well-known binary (WKB), or the shape representation would be too long. From append-length bytes, only written-length bytes could be appended to the encoding. A representation of the geometry cannot be created.
Simplify the geometry by omitting points that are not essential for the geometry. You can use the ST_Generalize function for this procedure. Alternatively, break down the geometry into several smaller geometries.

**User response:**

**msgcode:** -3022  
**sqlstate:** 38SUJ

---

**GSE3023N**  
**Representation too short (length bytes).**

**Explanation:** The representation of the geometry in well-known binary (WKB) representation or the shape representation is only `length` bytes long. It needs to have at least 4 bytes for the shape representation, exactly 5 bytes for the well-known binary representation for empty geometries, and at least 9 bytes for the well-known binary representation for non-empty geometries. The binary representation must also be long enough to contain all of the geometry points.

**User response:** Provide a valid well-known binary representation or shape representation to the function or method.

**msgcode:** -3023  
**sqlstate:** 38SUK

---

**GSE3024N**  
**Internal geometry too short.**

**Explanation:** The internal representation of the geometry is too short. It could not be processed further. This error can occur if the internal representation of the geometry is corrupted, or if the geometry was not constructed by one of the supported constructor functions or methods.

**User response:** Construct the geometry again using one of the supported constructor functions or methods.

**msgcode:** -3024  
**sqlstate:** 38SUL

---

**GSE3025N**  
**Geometry inconsistent.**

**Explanation:** The geometry value is inconsistent and cannot be processed any further.

**User response:** Recreate the geometry from a valid binary or text representation.

**msgcode:** -3025  
**sqlstate:** 38SUM

---

**GSE3026N**  
**Inconsistent no. of points**  
(indicated-number vs. data-number).

**Explanation:** An internal parameter of the geometry indicates that the geometry data contains `indicated-number` points. But the actual geometry data contains `data-number` points. Because of this inconsistency, the geometry will not be used further in the processing.

This error can occur if the internal representation of the geometry is corrupted, or if the geometry was not constructed by one of the supported constructor functions or methods.

**User response:** Recreate the geometry using the functions or methods supported by Spatial Extender.

**msgcode:** -3026  
**sqlstate:** 38SUN

---

**GSE3027N**  
**Point is empty.**

**Explanation:** It is invalid to specify an X coordinate, Y coordinate, Z coordinate, or measure for an empty point.

If the point is constructed by the constructor function ST_Point, the point's X and Y coordinates must both be null. Furthermore, no Z coordinate or measure should be specified unless it is a null value.

If the mutators ST_X, ST_Y, ST_Z, or ST_M are used to modify an empty point, the point's X and Y coordinates must both be null. No Z coordinate or measure should be specified unless it is null.

**User response:** Use mutators ST_X, ST_Y, ST_Z, or ST_M to modify points that are not empty, or construct the point by specifying both X and Y coordinates with values that are not null.

**msgcode:** -3027  
**sqlstate:** 38SUO

---

**GSE3028N**  
**Inconsistent coordinates.**

**Explanation:** If a new point is constructed, both the X and Y coordinates must be specified. Both coordinates must be either null or not null.

If both coordinate values are null, the resulting point will be empty. In that case, no Z coordinate or measure should be specified unless it is null.

**User response:** Specify null values for both the X and Y coordinates, or specify values that are not null for both coordinates.

**msgcode:** -3028  
**sqlstate:** 38SUP

---

**GSE3029N**  
**Invalid byte order byte-order.**

**Explanation:** The byte order in the binary representation of the geometry must be either 0 (zero) or 1 (one), but it is `byte-order`.

In the well-known binary representation, a byte order of 0 (zero) indicates big endian format, and a byte
order of 1 (one) indicates little endian format.

**User response:** Correct the byte order in the binary representation so that it is either 0 (zero) or 1 (one).

**msgcode:** -3029  
**sqlstate:** 38SUQ

---

**GSE3030N**  
Invalid number of points `num-points` in geometry.

**Explanation:** The geometry has an invalid number of points `num-points`. This number must be greater than or equal to 0 (zero).

If the geometry is not empty, then the following conditions must be met:

- **point**  
  The geometry must have exactly one point.

- **linestring**  
  The geometry must have 2 or more points defining it.

- **polygon**  
  The geometry must have 3 or more points defining it.

**User response:** Construct the geometry by using the functions or methods supported by Spatial Extender.

**msgcode:** -3030  
**sqlstate:** 38SUQ

---

**GSE3031N**  
Invalid extent (`min-coord` vs. `max-coord`) in geometry.

**Explanation:** The extent of the geometry in one of the dimensions is invalid. The minimum coordinate `min-coord` must be less than or equal to the maximum coordinate `max-coord` for all dimensions of the geometry.

**User response:** Construct the geometry by using the functions or methods supported by Spatial Extender.

**msgcode:** -3031  
**sqlstate:** 38SUU

---

**GSE3032N**  
Aggregation failure.

**Explanation:** A mismatch between internal identifiers was encountered for the computation of a spatial aggregate.

Aggregate functions are not supported if used in any of the following situations:

- In the partitioned environment.
- A `GROUP BY` clause is used in the query that contains the spatial aggregate.
- Any function other than the DB2 aggregate function `MAX` is used.

**User response:** Append a point that is not empty to the curve.

**msgcode:** +3035  
**sqlstate:** 01HS3

---

**GSE3033N**  
Invalid binary data (type ids `type-id1`, `type-id2`).

**Explanation:** A binary representation that is passed as input to this spatial function or method has to represent a geometry whose data type identifier is `type-id2`. But the representation that was actually passed to the function or method represents a geometry whose data type identifier is `type-id1`. No geometry could be constructed.

**User response:** Either call the correct function or method which constructs geometries of type `type-id2` or correct the binary representation to represent a geometry of `type-id1`.

**msgcode:** -3033  
**sqlstate:** 38SUU

---

**GSE3034N**  
Invalid text data (type ids `type-id1`, `type-id2`).

**Explanation:** A text representation that is passed as input to this spatial function or method has to represent a geometry whose data type identifier is `type-id2`. But the representation that was actually passed to the function represents a geometry whose data type identifier is `type-id1`. No geometry could be constructed.

**User response:** Either call the correct function which constructs geometries of type `type-id1` or correct the text representation to represent a geometry of `type-id2`.

**msgcode:** -3034  
**sqlstate:** 38SUV

---

**GSE3035W**  
Curve not changed.

**Explanation:** The curve was not changed because the specified point to be appended to the curve was empty.

**User response:** Append a point that is not empty to the curve.

**msgcode:** +3035  
**sqlstate:** 01HS3

---

**GSE3036W**  
Geometry not accurate.

**Explanation:** The resulting geometry could not be represented accurately in the spatial reference system. One of the scale factors is too small and does not allow for a high enough precision to represent each point that
defines the resulting geometry.

For example, consider a linestring with a well-known text representation of 'linestringm(1 0 11, 1 0 11 11 2) ' represented in a spatial reference system that includes a scale factor of 1 (one) for X coordinates and a scale factor of 1 (one) also for Y coordinates. If the function ST_MeasureBetween is applied to that linestring, and the upper and lower bounds for the measures are 9 and 10, respectively, the resulting linestring, represented in its well-known text representation, would have to be 'linestringm(1 0 10.25 9, 10 10.50 10 )'. However, the scale factor of 1 (one) for the Y coordinates prevents the representation of fractions. The coordinates 10.25 and 10.50 cannot be represented without rounding that would produce an incorrect result. Such coordinates will be removed from the geometry.

User response: Represent the geometry in a spatial reference system that uses larger scale factors. Alternatively, choose different parameters that influence the resulting geometry.

msgcode: +3036
sqlstate: 01HS4

---

GSE3037N  Invalid GML, expecting char instead of string at position position.

Explanation: A character char was expected in the Geography Markup Language of the geometry, but the text string was found instead at position position. The GML representation is not valid. Spatial Extender cannot construct the geometry successfully.

User response: Correct the GML representation and construct the geometry again.

msgcode: -3037
sqlstate: 38SUW

---

GSE3038N  Invalid GML, expecting expected-tag instead of given-tag at position position.

Explanation: The tag given-tag was found in the Geography Markup Language of the geometry at position position, but a tag expected-tag was expected. The GML representation is not valid. Spatial Extender cannot construct the geometry successfully.

User response: Correct the GML representation and construct the geometry again.

msgcode: -3038
sqlstate: 38SUX

---

GSE3039N  Invalid GML, expecting number instead of text at position position.

Explanation: Unexpected text text was found in the Geography Markup Language of the geometry at position position. A number representing a coordinate was expected instead. The GML representation is not valid. Spatial Extender cannot construct the geometry successfully.

User response: Correct the GML representation and construct the geometry again.

msgcode: -3039
sqlstate: 38SUZ

---

GSE3040N  Invalid GML type type.

Explanation: An unknown type type was specified in the Geography Markup Language of the geometry. The GML supports points, linestrings, polygons, multipoints, multilinestrings, and multipolygons. Spatial Extender cannot construct the geometry successfully.

User response: Correct the GML representation and construct the geometry again.

msgcode: -3040
sqlstate: 38SUZ

---

GSE3041N  GML point has been incorrectly specified.

Explanation: The problem occurred due to one of the following reasons:

- A point, represented using the Geography Markup Language, can only have one set of coordinates. The given point had either no set of coordinates or more than one set.
- The set of coordinates is not enclosed by corresponding <gml:coord> or <gml:coordinates> tags.

The GML representation is not valid. Spatial Extender cannot construct the geometry successfully.

User response: Correct the GML representation and construct the geometry again.

msgcode: -3041
sqlstate: 38SV0

---

GSE3042N  Could not read number-bytes bytes from locator at offset offset. Total length of data is length.

Explanation: An attempt was made to read number-bytes bytes from the locator, starting at the offset offset. This exceeds the total length of the data length that is referenced by the locator. The data might be truncated.

For binary representations of a geometry, the binary representation might indicate an invalid binary encoding. The encoded geometry has fewer points than the header indicates.
User response: Verify and correct the representation of the geometry. Make sure that the binary or textual representation does not get truncated before it is passed to the Spatial Extender function.

msgcode: -3042
sqlstate: 38SV1

GSE3043N Invalid number of parts number-parts.
Explanation: The number of parts number-parts indicated in the binary representation of the geometry is invalid. The number of parts must be larger than 0 (zero) and match the actual number of parts supplied in the encoding.
User response: Specify the correct number of parts or supply all parts for the geometry.
msgcode: -3043
sqlstate: 38SV2

GSE3044N Invalid number of rings number-rings.
Explanation: The number of rings number-rings indicated in the binary representation of the polygon or multipolygon is invalid. The number of rings must be larger than 0 (zero) and match the actual number of parts supplied in the encoding.
User response: Specify the correct number of rings or supply all rings for the geometry.
msgcode: -3044
sqlstate: 38SV3

GSE3045N Invalid part offset part-offset in shape.
Explanation: An invalid offset part-offset for a part in the shape representation of the geometry was encountered. A part offset must be larger than or equal to 0 (zero), and each part offset must be larger than the preceeding one. The shape representation is not valid. Spatial Extender cannot construct the geometry successfully.
User response: Correct the shape representation and construct the geometry again.
msgcode: -3045
sqlstate: 38SV4

GSE3046N Invalid type ID type-id in shape.
Explanation: The shape representation of the geometry contains an invalid type identifier type-id. The shape data is possibly corrupted. Spatial Extender cannot construct the geometry successfully.
User response: Verify and correct the shape representation of the geometry.
msgcode: -3046
sqlstate: 38SV5

GSE3047N Invalid length shape-length of shape encoding for type type, expecting only expected-length bytes.
Explanation: The shape encoding contains shape-length bytes, which is too long. To encode a geometry of the specified type type, only expected-length bytes are required. The shape data is possibly corrupted. Spatial Extender cannot construct the geometry successfully.
User response: Verify and correct the shape representation of the geometry.
msgcode: -3047
sqlstate: 38SV6

GSE3048N Invalid WKT format, expecting char instead of string.
Explanation: A character char was expected in the well-known text representation of the geometry, but the text string was found instead. The well-known text representation is not valid. Spatial Extender cannot construct the geometry successfully.
User response: Correct the well-known text representation and construct the geometry again.
msgcode: -3048
sqlstate: 38SV7

GSE3049N Invalid WKT format, expecting a number instead of text.
Explanation: An unexpected text text was found in the well-known text representation of the geometry. A number representing a coordinate was expected instead. The well-known text representation is not valid. Spatial Extender cannot construct the geometry successfully.
User response: Correct the well-known text representation and construct the geometry again.
msgcode: -3049
sqlstate: 38SV8

GSE3050N Unexpected parenthesis in WKT format at text.
Explanation: An unexpected opening or closing parenthesis was found in the well-known text representation of the geometry at text. The well-known text representation is not valid. Spatial Extender cannot construct the geometry successfully.
User response: Correct the well-known text representation and construct the geometry again.
msgcode: -3050
sqlstate: 38SV9
GSE3051N  Parenthesis mismatch in WKT format, expecting parenthesis.

Explanation: The end of the well-known text representation was reached unexpectedly. A parenthesis was expected. The well-known text representation is not valid. Spatial Extender cannot construct the geometry successfully.

User response: Correct the well-known text representation and construct the geometry again.

msgcode: -3051
sqlstate: 38SVA

GSE3052N  Unknown type type in WKT.

Explanation: The well-known text representation of the geometry contains an unknown type name of type. The well-known text representation is not valid. Spatial Extender cannot construct the geometry successfully.

User response: Correct the well-known text representation and construct the geometry again.

msgcode: -3052
sqlstate: 38SVB

GSE3053N  Invalid type id type-id in WKB.

Explanation: The well-known binary representation of the geometry contains an invalid type identifier type-id. The data is possibly corrupted. Spatial Extender cannot construct the geometry successfully.

The type identifiers of separate parts in a geometry collection (multipoint, multilinestring, or multipolygon) must have the same indicators for the Z and M coordinates as the geometry collection itself.

User response: Verify and correct the well-known binary representation of the geometry.

msgcode: -3053
sqlstate: 38SVC

GSE3300N  Invalid grid size grid-size-number.

Explanation: The grid size identified by its position grid-size-number is invalid. One of the following invalid specifications was made when the grid index was created with the CREATE INDEX statement:

- A number less than 0 (zero) was specified as the grid size for the first, second, or third grid level.
- 0 (zero) was specified as the grid size for the first grid level.
- The grid size specified for the second grid level is less than the grid size of the first grid level but it is not 0 (zero).

The function ST_GetIndexParms can be used to retrieve the values used for the parameters specified when the index was created.

User response: Do not insert a geometry that is not a point into a column that has a Z-Order index defined on it. Either drop the index or do not insert the geometry.

msgcode: -3302
sqlstate: 38SIC

GSE3301N  Invalid z-order parameter parameter-number.

Explanation: The parameter identified by its position parameter-number for a Z-Order index contains an invalid value. One of the following invalid specifications was made in the CREATE INDEX statement that was used to create the index to which the geometry is to be added:

- A null value was specified for the parameter.
- A negative number was specified for a scale factor (this rule applies to parameter numbers 2 and 4 only).

The function ST_GetIndexParms can be used to retrieve the values used for the parameters specified when the index was created.

User response: Drop the spatial z-order index and create a new index using only valid parameters.

msgcode: -3301
sqlstate: 38SI1

GSE3302N  No point to be indexed.

Explanation: The geometry to be indexed using a Z-Order index is not a point. The Z-Order index supports only points, and the index entry cannot be generated.

User response: Do not insert a geometry that is not a point into a column that has a Z-Order index defined on it. Either drop the index or do not insert the geometry.

msgcode: -3302
sqlstate: 38SI2
GSE3303N Invalid quad tree parameter

Explanation: An invalid parameter was specified when the quad tree index was created. The parameter is identified by its position grid-size-number.

One of the following invalid specifications was made:
- A null value was specified for the parameter.
- A negative number was specified for a scale factor (this rule applies to parameter numbers 3 and 5 only).
- A value less than 1 (one) was specified for the first parameter.

The function ST_GetIndexParms can be used to retrieve the values used for the parameters specified when the index was created.

User response: Drop the spatial quad tree index and create a new index using only valid parameters.

msgcode: -3303
sqlstate: 38S13

GSE3400C Unknown error error-code.

Explanation: An internal error with code error-code was encountered when a geometry was processed.

User response: Note the error and contact IBM Software Support.

msgcode: -3400
sqlstate: 38SS0

GSE3402C Insufficient memory.

Explanation: Not enough memory was available for the spatial function or method that you invoked.

User response: Make more memory available to the DB2 process that executes the function or method.

msgcode: -3402
sqlstate: 38SS2

GSE3403N Invalid geometry type.

Explanation: An invalid type of geometry was passed to the function or method that you invoked.

User response: Specify a valid geometry. For more information, refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User’s Guide and Reference.

msgcode: -3403
sqlstate: 38SS3

GSE3405N Too many parts specified.

Explanation: The number of parts indicated in the binary or text representation of the geometry is greater than the actual number of parts supplied. Either the number of parts indicated is too high or not all the parts were supplied.

User response: Specify the correct number of parts or supply all parts for the geometry.

msgcode: -3405
sqlstate: 38SS5

GSE3406N Incorrect geometry type.

Explanation: The wrong type of geometry was passed to the function or method that you invoked. For example, a linestring might have been passed to a function or method that takes only polygons as input.

User response: Either pass to the function or method a type of geometry that it can process, or use a function or method that accepts the type of geometry that you want to pass.

msgcode: -3406
sqlstate: 38SS6

GSE3407N Text is too long.

Explanation: The geometry contains too much detail to be converted to its well-known text representation. The well-known text representation exceeds the maximum allowable length (2 gigabytes).

User response: Simplify the geometry - for example, by using the ST_Generalize function - or convert the geometry to its well-known binary representation.

msgcode: -3407
sqlstate: 38SS7

GSE3408N Invalid parameter value.

Explanation: An invalid parameter was encountered.

User response: Refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User’s Guide and Reference for the function’s correct syntax and retry the operation. If the problem persists, contact IBM Software Support.

msgcode: -3408
sqlstate: 38SS8

GSE3409N Invalid geometry produced.

Explanation: The parameters provided for the function or method have produced an invalid geometry; for example, an invalid shape representation.
An invalid geometry is one that violates a geometry property.

**User response:** Construct the geometry again from a valid representation.

**msgcode:** -3409  
**sqlstate:** 38SS9

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**GSE3410N Incompatible geometries.**

**Explanation:** The function or method expected two geometries of a certain type and did not receive them. For example, the ST_AddPoint function expects two geometries, one a representation and the other a point.

**User response:** Specify geometries that the function or method accepts as valid input. To determine what types of geometries are valid for this function or method, refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User's Guide and Reference.

**msgcode:** -3410  
**sqlstate:** 38SSA

---

**GSE3411N Invalid geometry.**

**Explanation:** The function or method cannot process the geometry passed to it because one or more properties of the geometry violate the geometry's integrity.

**User response:** Use the ST_IsValid function to validate the geometry. Construct the geometry again from a correct representation if it is not valid.

**msgcode:** -3411  
**sqlstate:** 38SSB

---

**GSE3412N Too many points.**

**Explanation:** The construction of a geometry has exceeded the 1-megabyte storage limit; the geometry has too many points.

**User response:** Construct a geometry that contains fewer points. Or, if possible, remove some points. For performance and storage considerations, include only those points that are needed to render a geometry.

**msgcode:** -3412  
**sqlstate:** 38SSC

---

**GSE3413N Geometry too small.**

**Explanation:** The geometry returned by the ST_Difference, ST_Intersection, ST_SymDifference, or ST_Union function is too small to be represented accurately in the current spatial reference system.

For example, this can happen if the internal computation constructs a very thin polygon, but the scale factor of the spatial reference system is so low that the geometry would collapse to a linestring if it were to be represented in this spatial reference system. It would lose its property as a polygon.

**User response:** Use a correctly defined spatial reference system to represent the geometry.

**msgcode:** -3415  
**sqlstate:** 38SSF

---

**GSE3414N Buffer out of bounds.**

**Explanation:** The ST_Buffer function has created a buffer around the provided geometry that is outside the range of the coordinates to which the spatial reference system applies.

Refer to the Spatial Extender catalog view DB2GSE.ST_SPATIAL_REFERENCE_SYSTEMS to determine the minimum and maximum absolute values for each of the dimensions. These values must not be exceeded by the calculated buffer.

**User response:** Either reduce the distance to be used for the buffer calculation, or change the spatial reference system in which the calculation is done. The ST_Transform function can be used to convert geometries from one spatial reference system into another.

**msgcode:** -3414  
**sqlstate:** 38SSE

---

**GSE3415N Invalid scale factor.**

**Explanation:** A scale factor for any of the four dimensions (X, Y, Z, and M) must be greater than or equal to 1 (one).

**User response:** Use a correctly defined spatial reference system to represent the geometry.

**msgcode:** -3415  
**sqlstate:** 38SSF

---

**GSE3416N Coordinate out of bounds.**

**Explanation:** A coordinate cannot be represented in the spatial reference system because, in at least one dimension, it exceeds the possible minimum or maximum absolute value within the system's range of values.

Refer to the Spatial Extender catalog view DB2GSE.ST_SPATIAL_REFERENCE_SYSTEMS to determine the minimum and maximum absolute values for each of the dimensions.

**User response:** Determine whether the coordinate is
correct. If it is, determine whether it fits within the extent of the spatial reference system that you are using. For information about this spatial reference system, consult the DB2GSE.ST_SPATIAL_REFERENCE_SYSTEMS catalog view.

msgcode: -3416
sqlstate: 38SSG

GSE3417N Invalid coordsys definition.
Explanation: There are one or more errors in the text representation of the definition of the coordinate system on which the geometry's spatial reference system is based. The representation cannot be converted into a valid projection.
User response: Verify the coordinate system definition of the spatial reference system. Alternatively, construct the geometry in a spatial reference system that is associated with a valid coordinate system. The ST_EqualCoordsys function can be used to verify the coordinate system definition by comparing it with itself.

msgcode: -3417
sqlstate: 38SSH

GSE3418N Projection error.
Explanation: An error occurred during an attempt to project a geometry to another spatial reference system.
User response: Make sure that the geometry is within the legal domain of the projection.

msgcode: -3418
sqlstate: 38SSI

GSE3419N Polygon rings overlap.
Explanation: The rings of a polygon overlap. By definition, the inner and outer rings of a polygon must not overlap. They can intersect only at a tangent, which means the rings can only touch but not cross each other.
User response: Specify the coordinates for the polygon that will not produce overlapping rings. Note that the scale factors of the spatial reference system for the geometry have an influence on the precision.

msgcode: -3419
sqlstate: 38SSJ

GSE3420N Too few points.
Explanation: The error is a result of one of the following:

- Linestrings must consist of at least two points, and polygons must consist of at least four points.
- The geometry cannot be constructed from the points that you have specified.

Note that if the geometry to be constructed is empty, these rules do not apply.

User response: Construct the geometry again from a valid set of points.

msgcode: -3420
sqlstate: 38SSK

GSE3421N Polygon is not closed.
Explanation: The inner and outer rings that define the polygon must be closed. A ring is closed if the start and end points are identical in the X and Y dimensions. If the polygon has Z coordinates, then the start and end points must also be identical to the Z coordinates. Note that this rule does not apply to measures, which can be different for the start and end points.
User response: Specify inner and outer rings for the polygon that have the same points for the start and end points in the X and Y dimension. If the polygon has Z coordinates, the start and end points of the Z coordinate points also have to be identical. If the polygon has measures, the start and end points can be different.

msgcode: -3421
sqlstate: 38SSL

GSE3422N Invalid exterior ring.
Explanation: The exterior ring of the polygon is not valid.

The exterior ring of a polygon must enclose all interior rings of the polygon. All interior rings have to be completely inside the area that is defined by the outer ring and must not cross the exterior ring.
User response: Specify a geometry that consists of a valid set of interior and exterior rings, where the interior rings lie fully within the area that is enclosed by the exterior ring to represent it.

If the geometry has multiple polygons, use a multipolygon.

msgcode: -3422
sqlstate: 38SSM

GSE3423N Polygon has no area.
Explanation: The specified polygon lacks an interior that covers an area that is not the empty set in the X and Y dimensions.

A geometry is a polygon only if its coordinates span
two dimensions in the 2-dimensional space defined by the X and Y coordinates.

**User response:** Specify a polygon that encloses an area that is not empty. If the polygon is empty, construct an empty polygon.

**msgcode:** -3423  
**sqlstate:** 38SSN

---

**GSE3424N**  
**Exterior rings overlap.**

**Explanation:** The exterior rings of distinct polygons in a multipolygon overlap. Distinct polygons in a multipolygon must not overlap, and the boundaries must touch only at a finite number of points. That means the polygons must not share line segments.

The scale factors of the spatial reference system that is used to represent the geometry influences the precision that applies to the coordinates. Rounding operations performed when the geometry is converted to the representation in the spatial reference system might cause a loss in precision and, subsequently, this error.

**User response:** Specify coordinates for the polygon that will not produce overlapping rings.

Note that the scale factors of the spatial reference system have an influence on precision.

Refer to the Spatial Extender catalog view DB2GSE.ST_SPATIAL_REFERENCE_SYSTEMS for the scale factor used for the spatial reference system in which the geometry will be represented.

**msgcode:** -3424  
**sqlstate:** 38SSO

---

**GSE3425N**  
**Polygon intersects itself.**

**Explanation:** A ring of a polygon cannot intersect itself. The start and end points on each ring of the polygon must be reached twice when traversing the ring. All other points must only be reached once. This holds true also for the line segments that define the rings of the polygon.

The scale factors of the spatial reference system that is used to represent the geometry influences the precision that applies to the coordinates. Rounding operations performed when the geometry is converted to the representation in the spatial reference system might cause a loss in precision and, subsequently, this error.

**User response:** Construct a valid polygon in which the rings do not intersect themselves.

Refer to the Spatial Extender catalog view DB2GSE.ST_SPATIAL_REFERENCE_SYSTEMS for the scale factor used for the spatial reference system in which the geometry will be represented.

**msgcode:** -3425
binary representation for the geometry.

msgcode: -3430
sqlstate: 38SSU

---

GSE3431N  Empty geometry.

Explanation:  An empty geometry was passed to the ST_AsBinary function, even though it is not allowed as input.

User response:  Edit the SQL statement that you submitted so that only non-empty geometries will be passed to the ST_AsBinary function. For example, you can use the ST_IsEmpty function in the WHERE clause to exclude empty geometries.

msgcode: -3431
sqlstate: 38SSS

---

GSE3432N  Invalid end point.

Explanation:  The specified point is intended to be appended to the curve, but it is not valid.

User response:  Specify a valid point to be appended.

msgcode: -3432
sqlstate: 38SSW

---

GSE3433N  Point not found.

Explanation:  The specified point is intended to be changed or removed, but it does not exist in the curve.

User response:  Specify a point that does exist in the curve.

msgcode: -3433
sqlstate: 38SST

---

GSE3500N  Instance path not found.

Explanation:  The function implementing the geocoder could not find the DB2 instance path.

User response:  Verify the correct installation of DB2 and the IBM DB2 Spatial Extender. Check that the DB2INSTANCE environment variable is set for the user running the process executing the function.

If the problem persists, contact IBM Software Support.

msgcode: -3500
sqlstate: 38SG0

---

GSE3501N  Changing SRS id (new-srs-id, previous-srs-id).

Explanation:  The geocoder is optimized to geocode addresses and produce the resulting points all in same spatial reference system in a single SQL statement. But it encountered different spatial reference systems in the same SQL statement. The new spatial reference system is identified by new-srs-id; the spatial reference system used for the preceding rows was identified by previous-srs-id.

User response:  Specify the default parameters and overwriting parameters for the column that the geocoder runs on. This should be done in such a way that the numerical spatial reference system identifier remains constant within an SQL statement that is used to geocode multiple addresses at once.

msgcode: -3501
sqlstate: 38SG1

---

GSE3502N  Path too long.

Explanation:  The path name specified for the locator file parameter or the base map parameter exceeds 256 bytes and is too long.

User response:  Use a shorter path name for the locator file parameter or the base map parameter. On Unix systems, symbolic links can be used to shorten the path name.

msgcode: -3502
sqlstate: 38SG2

---

GSE3503N  Invalid line line-number in locator file.

Explanation:  In the locator file, line line-number contains an invalid entry. Each entry in the file must be of the form "property name = property value".

User response:  Correct the locator file.

msgcode: -3503
sqlstate: 38SG3

---

GSE3504N  Non-matching quote in line line-number in locator file.

Explanation:  In the locator file, line line-number contains an entry where the quote characters are not balanced. If quoted, the property name as well as the property value must have an opening and a closing quote character.

User response:  Correct the locator file.

msgcode: -3504
sqlstate: 38SG4

---

GSE3505N  Reason code = reason-code. Property failure.

Explanation:  A failure occurred while handling properties defined in the locator file (.loc).

The reason codes have the following meanings:
A property is inconsistent with other properties.
A required property was not found.
A value of a property is invalid.
An unexpected property was encountered.
An array of values was specified for a property that expected only a scalar value.
A value of a property does not have the expected data type.
A value of a property is too long.
The expression specified for a value of a property is too long.
User response: Correct the problem identified by the reason code; then retry the operation.

msgcode: -3505
sqlstate: 38SG5

GSE3506N Copy of properties failed.
Explanation: The copying of the properties into an internal buffer failed. Not enough memory is available.
User response: Ensure that enough memory is available for the geocoder to copy the properties from the locator file to the internal buffer.

msgcode: -3506
sqlstate: 38SG6

GSE3510N Address not normalized.
Explanation: The geocoder could not normalize the address.
User response: Contact IBM Software Support.

msgcode: -3510
sqlstate: 38SGA

Explanation: An internal error with reason code reason-code occurred during a file operation.
Possible reasons for the file operation failure, preceded by their reason codes, are as follows:
-543 The match rule file (.mat) could not be opened.
-544 The match rule file (.mat) is invalid.
-547 The reference data file (.edg) could not be opened.
-548 The table in the reference data file (.edg) is either missing or inaccessible.
-549 A required column could not be found in the reference data file (.edg).
-550 The index file could not be accessed.
User response: Correct the problem identified by the reason code; then retry the operation.

msgcode: -3511
sqlstate: 38SGB

Explanation: The geocoder failed with an internal error of reason code reason-code.

User response: Note the internal error and contact IBM Software Support.

msgcode: -3512
sqlstate: 38SGC

GSE3600N No index specified.

Explanation: No valid index was specified. The index schema parameter, the index name parameter, or both, are null. The index parameter values cannot be derived.

User response: Specify a valid spatial index to retrieve the parameter information.

msgcode: -3600
sqlstate: 38SQ0

GSE3601N Invalid spatial index name schema-name.index-name.

Explanation: The specified name of the index for which you want parameter information retrieved does not exist or does not identify a spatial index. This name is schema-name.index-name.

User response: Specify an existing spatial index to retrieve the parameter information.

msgcode: -3601
sqlstate: 38SQ1

GSE3602N Invalid parameter number number specified.

Explanation: The parameter number number is not valid for the specified spatial index.

The following limits apply for the different types of spatial indexes:

grid index
  Parameter numbers between 1 (one) and 3.

z-order index
  Parameter numbers between 1 (one) and 4.

quad-tree index
  Parameter numbers between 1 (one) and 5.

User response: Specify a valid parameter number for the spatial index. Consult the DB2 system catalog for the type of the spatial index.

msgcode: -3602
sqlstate: 38SQ2

GSE3603N Invalid column name.

Explanation: The specified column does not exist in the table. At least one of the following - table schema, table name, or column name - is a null value. The index parameter for an index on a column cannot be derived.

User response: Specify an existing column which has a spatial index defined on it.

msgcode: -3603
sqlstate: 38SQ3

GSE3701N Distance distance-value out of range: valid range is min to max meters (inclusive).

Explanation: An invalid distance was passed to the function or method that you invoked.

User response: Specify a valid distance and repeat the command.

For more information, refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User’s Guide and Reference.

msgcode: -3701
sqlstate: 38SQ9

GSE3702N Out of workspace in internal geometry engine.

Explanation: The geodetic workspace was not large enough to perform the operation.

User response: Repeat the command. If the problem persists, contact IBM Software Support.

msgcode: -3702
sqlstate: 38SOT

GSE3703N Out of heap memory in internal geometry engine.

Explanation: Not enough memory was available. Possible reasons are that the supply of memory was too low, or that memory was being used by other applications.

User response: Resolve the memory shortage and repeat the command.

For more information, refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User’s Guide and Reference.

msgcode: -3703
sqlstate: 38SOU
GSE3704C Possible corrupt data or invalid input in internal geometry engine.

Explanation: Spatial Extender encountered an unexpected internal error in a geometry value.

User response: Repeat the command. If the problem persists, contact IBM Software Support.

For more information, refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User's Guide and Reference.

msgcode: -3704
sqlstate: 38SOV

GSE3706C Error number hipparchus-error in internal geometry engine.

Explanation: Spatial Extender encountered an unexpected internal error.

User response: Repeat the command. If the problem persists, contact IBM Software Support.

msgcode: -3706
sqlstate: 38SOX

GSE3708C Internal error: empty dispatch table entry.

Explanation: Spatial Extender encountered an unexpected internal error in a geometry value.

User response: Repeat the command. If the problem persists, contact IBM Software Support.

msgcode: -3708
sqlstate: 38SOR

GSE3709C Internal error.

Explanation: Spatial Extender encountered an unexpected internal error in a geometry value.

User response: Repeat the command. If the problem persists, contact IBM Software Support.

msgcode: -3709
sqlstate: 38SOY

GSE3712N Latitude latitude-value out of range.

Explanation: A latitude value must be in a valid range.

For latitude values that are measured in degrees, the valid range is between -90 and 90 degrees (inclusive).

For latitude values that are measured in grads, the valid range is between -100 and 100 grads (inclusive).

For latitude values that are measured in radians, the valid range is between -PI/2 and PI/2 radians (inclusive) where PI is approximately 3.14159265358979323846.

User response: Specify a valid latitude value and repeat the command.

For more information, refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User's Guide and Reference.

msgcode: -3712
sqlstate: 38SO7

GSE3713N Longitude longitude-value out of range.

Explanation: A longitude value must be in a valid range.

For longitude values that are measured in degrees, the valid range is between -180 and 180 degrees (inclusive).

For longitude values that are measured in grads, the valid range is between -200 and 200 grads (inclusive).

For longitude values that are measured in radians, the valid range is between -PI and PI radians (inclusive) where PI is approximately 3.14159265358979323846.

User response: Specify a valid longitude value and repeat the command.

For more information, refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User's Guide and Reference.

msgcode: -3713
sqlstate: 38SO8

GSE3714N Too few rings (nrings) specified: Must have at least 1 ring.

Explanation: A non-empty ST_Polygon requires at least one ring.

User response: Specify at least one ring and repeat the command.

For more information, refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User's Guide and Reference.

msgcode: -3714
sqlstate: 38SOD

GSE3716N Too few points (npoints) specified: Must have at least min points.

Explanation: A non-empty ST_LineString has too few points. An ST_LineString value must have at least 2 points and an ST_LineString value specified as a ring in an ST_Polygon must have at least 4 points.

User response: Specify the correct number of points in the geometry value and repeat the command.

For more information, refer to the IBM DB2 Spatial...
GSE3721N - Geometry Collections are not supported.

**Explanation:** ST_GeomCollection values are not supported in the DB2 Geodetic Data Management Feature.

**User response:** Use ST_MultiPoint, ST_MultiLineString or ST_MultiPolygon type instead of ST_GeomCollection and repeat the command.

For more information, refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User’s Guide and Reference.

msgcode: -3721
sqlstate: 38SP6

GSE3722N - Unknown or unsupported WKB type tag: wkb-type.

**Explanation:** The Well-known Binary value is of an unknown or unsupported type.

**User response:** Use a known Well-known Binary type (ST_Point, ST_LineString, ST_Polygon, ST_MultiPoint, ST_MultiLineString, or ST_MultiPolygon) and repeat the command.

For more information, refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User’s Guide and Reference.

msgcode: -3722
sqlstate: 38SP7

GSE3724N - Type mismatch: received type=given-type, expected type=expected-type.

**Explanation:** An invalid type of geometry was passed to the function or method that you invoked.

**User response:** Repeat the command. If the problem persists, contact IBM Software Support.

msgcode: -3724
sqlstate: 38SON

GSE3726N - type data type version version-number is not supported by the DB2 Geodetic Data Management Feature currently in use.

**Explanation:** The geometry value contains an unsupported version.

**User response:** Use a supported version and repeat the command.

msgcode: -3735
sqlstate: 38SQ5

GSE3733W - Polygon covers more than half the earth. Verify counter-clockwise orientation of the vertex points.

**Explanation:** Polygon covers more than half the earth.

**User response:** Verify counter-clockwise orientation of the vertex points.

For more information, refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User’s Guide and Reference.

msgcode: +3733
sqlstate: 01HS5

GSE3734N - Invalid ring geometry; coincident consecutive points were found at point-value.

**Explanation:** Invalid ring geometry; coincident consecutive points were found.

**User response:** Remove coincident consecutive points and repeat the command.

For more information, refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User’s Guide and Reference.

msgcode: -3734
sqlstate: 38SQ4

GSE3735N - Invalid ring geometry; the sequence of coordinates crosses or touches itself at point-value.

**Explanation:** Invalid ring geometry; the sequence of coordinates crosses or touches itself.

**User response:** Specify a ring that does not cross or touch.

For more information, refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User’s Guide and Reference.

msgcode: -3735
sqlstate: 38SQ5

GSE3736N - Constituent polygon rings do not define a valid region. Check the rotational sense of each ring.

**Explanation:** Constituent polygon rings do not define a valid region.
User response: Check the rotational sense of each ring.

For more information, refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User’s Guide and Reference.

msgcode: -3736
sqlstate: 38SQ6

GSE3737N Invalid polygon; the region has no boundary.
Explanation: Invalid polygon; the region has no boundary.
User response: Specify a polygon with a boundary.
For more information, refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User’s Guide and Reference.

msgcode: -3737
sqlstate: 38SQ7

GSE3739N Invalid ring geometry; collinear segments were found near point-value.
Explanation: Invalid ring geometry; collinear segments were found.
User response: Remove collinear segments.
For more information, refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User’s Guide and Reference.

msgcode: -3739
sqlstate: 38SQ9

GSE3740N Reason code reason-code. Unsupported Geodetic operation.
Explanation: The DB2 Geodetic Data Management Feature does not support the operation as indicated by the following reason code:

"1" The Geodetic License is not enabled.
"2" The function was invoked with an ST_Geometry value where the SRID null.
"3" The function was invoked with ST_Geometry values where the SRID values are not equal.
"4" The function was invoked with a spatial reference system that has a null definition.
"5" The function is not supported in Geodetic.
"6" The type of one or more ST_Geometry values is not supported in Geodetic.
"7" The function does not support being executed with Geodetic and non-Geodetic values.
"8" The Geodetic Voronoi Index does not support non-Geodetic values.
"9" The Spatial Grid Index does not support Geodetic values.

User response: The action corresponding to the reason code is:

"1" Enable the Geodetic license.
"2" Ensure all ST_Geometry values have a valid SRID attribute value.
"3" For Geodetic operations, ensure all ST_Geometry values have the same SRID value.
"4" If the problem persists, contact IBM Software Support.
"5" Do not invoke this function or method with ST_Geometry values with an SRID in the geodetic range.
"6" Do not use this ST_Geometry type with an SRID in the geodetic range.
"7" Execute the function with all ST_Geometry values with an SRID in the geodetic range or not in the geodetic range.
"8" Use the Spatial Grid Index specification on columns with non-Geodetic values.
"9" Use the Geodetic Voronoi Index specification on columns with Geodetic values.

After correcting the problem, repeat the command.
For more information, refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User’s Guide and Reference.

msgcode: -3740
sqlstate: 38SOP

GSE3743N The Voronoi tessellation id vtid is not found.
Explanation: The specified Voronoi tessellation id is not defined.
User response: Use a defined Voronoi tessellation id and repeat the command.
For more information, refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User’s Guide and Reference.

msgcode: -3743
sqlstate: 38SOC

GSE3744N The geometry value is too large.
Explanation: The geometry value cannot exceed its maximum value.
User response: Specify fewer points in the geometry
value and repeat the command.
For more information, refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User’s Guide and Reference.

**msgcode**: -3744  
**sqlstate**: 38SOK

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**GSE3745N**  
The spatial reference system definition does not have a well defined SPHEROID definition.

**Explanation**: The spatial reference system definition for this ST_Geometry value is not a geographic coordinate system or does not contain a DATUM definition that includes a SPHEROID definition.

**User response**: Correct the spatial reference system definition and repeat the command.
For more information, refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User’s Guide and Reference.

**msgcode**: -3745  
**sqlstate**: 38SOF

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**GSE3746N**  
The ellipsoid id is not defined.

**Explanation**: The ellipsoid id is not defined in the DB2 Geodetic Data Management Feature.

**User response**: Use a defined ellipsoid and repeat the command.
For more information, refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User’s Guide and Reference.

**msgcode**: -3746  
**sqlstate**: 38SOG

---

**GSE3748N**  
A ring in a polygon is not closed

**Explanation**: The start and end points of a ring in a polygon must be exactly equal.

**User response**: Correct the ring definition by ensuring the start and end points are exactly equal and repeat the command.
For more information, refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User’s Guide and Reference.

**msgcode**: -3748  
**sqlstate**: 38S0I

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**GSE3749N**  
An antipodal line segment, linesegment, detected in a linestring or a ring of a polygon.

**Explanation**: This is a line segment where the two points are directly opposite each other as seen from the ellipsoid center. For example, the line definition (0 0, 180 0) may either pass through the north pole or the south pole.

**User response**: Correct the linestring or ring definition to ensure there are no antipodal line segments by moving one of the two points in this line segment and repeat the command.
For more information, refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User’s Guide and Reference.

**msgcode**: -3749  
**sqlstate**: 38SP0

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**GSE3750N**  
The spatial reference system definition does not have a well defined UNIT definition.

**Explanation**: The spatial reference system definition for this ST_Geometry value is not a geographic coordinate system or does not contain a UNIT definition.

**User response**: Correct the spatial reference system definition and repeat the command.
For more information, refer to the IBM DB2 Spatial Extender and Geodetic Data Management Feature User’s Guide and Reference.

**msgcode**: -3750  
**sqlstate**: 38SP5

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**GSE4000N**  
Required parameter parameter-name is missing.

**Explanation**: The required parameter was not found.

**User response**: Specify the required parameter and try to execute the command again.

**msgcode**: -4000  
**sqlstate**: 38SB0

---

**GSE4001N**  
An error occurred while Spatial Extender was allocating an environment handle.

**Explanation**: An environment handle could not be allocated using the Call Level Interface (CLI). The operation cannot be completed successfully.

**User response**: Verify the CLI configuration. If the source of the problem cannot be found and corrected, contact IBM Software Support.
msgcode: -4001
sqlstate: 38SB1

GSE4002N An error occurred while Spatial Extender was allocating a connection handle. CLI error `cli-error` and native error code = `native-error-code`.

Explanation: An unexpected error `cli-error` with native error code = `native-error-code` occurred while Spatial Extender was allocating a connection handle.

User response: Look up the detailed error message `cli-error`. Correct the error and execute the command again. If the problem persists, contact IBM Software Support.

msgcode: -4002
sqlstate: 38SB2

GSE4003N An error occurred while Spatial Extender was connecting to the database. CLI error `cli-error` and native error code = `native-error-code`.

Explanation: An unexpected error `cli-error` with native error code = `native-error-code` occurred while Spatial Extender was connecting to the database.

User response: Look up the detailed error message `cli-error`. Correct the error and execute the command again. If the problem persists, contact IBM Software Support.

msgcode: -4003
sqlstate: 38SB3

GSE4004N An error occurred while Spatial Extender was allocating a statement handle. CLI error `cli-error` and native error code = `native-error-code`.

Explanation: An unexpected error `cli-error` with native error code = `native-error-code` occurred while Spatial Extender was allocating a statement handle.

User response: Look up the detailed error message `cli-error`. Correct the error and execute the command again. If the problem persists, contact IBM Software Support.

msgcode: -4004
sqlstate: 38SB4

GSE4005N An error occurred while an SQL statement was being prepared. CLI error `cli-error` and native error code = `native-error-code`.

Explanation: An unexpected error `cli-error` with native error code = `native-error-code` occurred while Spatial Extender was preparing an SQL statement.

User response: Look up the detailed error message `cli-error`. Correct the error and execute the command again. If the problem persists, contact IBM Software Support.

msgcode: -4005
sqlstate: 38SB5

GSE4006N An error occurred while Spatial Extender was binding parameters to an SQL statement. CLI error `cli-error` and native error code = `native-error-code`.

Explanation: An unexpected error `cli-error` with native error code = `native-error-code` occurred while Spatial Extender was binding parameters to an SQL statement.

User response: Look up the detailed error message `cli-error`. Correct the error and execute the command again. If the problem persists, contact IBM Software Support.

msgcode: -4006
sqlstate: 38SB6

GSE4007N An error occurred while Spatial Extender was executing an SQL statement. CLI error `cli-error` and native error code = `native-error-code`.

Explanation: An unexpected error `cli-error` with native error code = `native-error-code` occurred while Spatial Extender was executing an SQL statement.

User response: Look up the detailed error message `cli-error`. Correct the error and execute the command again. If the problem persists, contact IBM Software Support.

msgcode: -4007
sqlstate: 38SB7

GSE4008N An error occurred while Spatial Extender was ending a transaction. CLI error `cli-error` and native error code = `native-error-code`.

Explanation: An unexpected error `cli-error` with native error code = `native-error-code` occurred while Spatial Extender was ending a transaction.

User response: Look up the detailed error message `cli-error`. Correct the error and execute the command again. If the problem persists, contact IBM Software Support.

msgcode: -4008
sqlstate: 38SB8
GSE4009N  The option, option, is invalid.
Explanation: The specified option, option, is invalid.
User response: Specify a valid option and repeat the command.
msgcode: -4009
sqlstate: 38SB9

GSE4100N  Column schema-name.table-name.column-name does not exist.
Explanation: The specified column schema-name.table-name.column-name does not exist.
User response: Specify an existing column in an existing table and execute the command again.
msgcode: -4100
sqlstate: 38SC0

GSE4101N  Column schema-name.table-name.column-name does not have a spatial data type.
Explanation: The specified column schema-name.table-name.column-name does not have a spatial type. A spatial type is ST_Geometry or one of its proper subtypes.
User response: Specify a column with a spatial data type and execute the command again.
msgcode: -4101
sqlstate: 38SC1

GSE4102N  Spatial grid index schema-name.index-name does not exist.
Explanation: The specified spatial grid index schema-name.index-name does not exist.
User response: Specify a spatial grid index which does exist and execute the command again.
msgcode: -4102
sqlstate: 38SC2

GSE4103N  An internal error occurred while Spatial Extender was retrieving index information for column schema-name.table-name.column-name.
Explanation: Spatial Extender encountered an unexpected internal error while retrieving information about the spatial index on the column schema-name.table-name.table-name.
User response: Contact IBM Software Support.
msgcode: -4103
sqlstate: 38SC3

GSE4104N  Spatial Extender could not retrieve grid sizes for spatial grid index schema-name.index-name.
Explanation: Spatial Extender encountered an unexpected internal error while retrieving the grid size definition for the grid index schema-name.index-name.
User response: Contact IBM Software Support.
msgcode: -4104
sqlstate: 38SC4

GSE4105W  No rows to analyze in column schema-name.table-name.column-name.
Explanation: The column schema-name.table-name.table-name does not contain any values that the Spatial Extender could analyze.
User response: Execute the command on a column that contains geometries. If sampling is used, use a higher sampling rate.
msgcode: +4105
sqlstate: 38SC5

GSE4106W  Spatial Extender could not get enough memory to retrieve MBR histogram for number entries.
Explanation: The histogram size of the minimum boundary rectangles for all the geometries in the spatial column is too big. Not enough memory to store it could be allocated. The command cannot be executed successfully.
User response: Do not specify the SHOW DETAIL option for the command or reduce the number of geometries to be analyzed by sampling them with a lower sample rate.
msgcode: +4106
sqlstate: 38SC6

GSE4107N  Grid size value grid-size is not valid where it is used.
Explanation: The specified grid size grid-size is not valid.
User response: Contact IBM Software Support.
msgcode: -4107
sqlstate: 38SC7
• The grid size specified for the second grid level is less than the grid size of the first grid level but it is not 0 (zero).
• The grid size specified for the third grid level is less than the grid size of the second grid level but it is not 0 (zero).
• The grid size specified for the third grid level is greater than 0 (zero) but the grid size specified for the second grid level is 0 (zero).

User response: Specify a valid value for the grid size.

msgcode: -4107
sqlstate: 38SC7

---

GSE4108W  Geometries in column

\texttt{schema-name.table-name.column-name} do not cover extent.

Explanation: All geometries in the column \texttt{schema-name.table-name.column-name} do not span an extent greater than 0 (zero). That means that only identical points exist in the column. The index information cannot be gathered.

User response: Insert additional rows into the spatial column.

msgcode: +4108
sqlstate: 38SC8

---

GSE4111N An invalid percentage \texttt{percentage} was specified.

Explanation: The specified percentage \texttt{percentage} of rows to be analyzed is not valid. The percentage must be an integer that is greater than 0 (zero) and less than or equal to 100.

User response: Specify a valid percentage greater than 0 (zero) and less than or equal to 100 and retry the command.

msgcode: -4111
sqlstate: 38SCB

---

GSE4112W No samples for the table

\texttt{schema-name.table-name.column-name} at \texttt{percent percent} could be produced.

Explanation: The Spatial Extender tried to sample \texttt{percent percent} of table \texttt{schema-name.table-name.column-name}, but could not produce any sample rows that could be analyzed any further.

User response: If the table is not empty, choose a higher sampling rate and retry the command.

msgcode: +4112
sqlstate: 38SCC

---

GSE4113N No tablespace for a declared global temporary table for the sampled data exists.

Explanation: A USER TEMPORARY tablespace with a page size of at least 4096 bytes must exist to declare a global temporary table that is needed to sample the data that is to be analyzed by the Spatial Extender. A global temporary table is needed so that Spatial Extender can sample the data that it is going to analyze. A USER TEMPORARY tablespace with a page size of at least 4096 bytes is required for declaring this table.

User response: Either create an appropriate USER TEMPORARY tablespace and retry the command, or do not use the ANALYZE clause to avoid sampling the spatial data.

msgcode: -4113
sqlstate: 38SCD

---

GSE4200N Parameter \texttt{value} of data type \texttt{type} is not expected in that context.

Explanation: The parameter value \texttt{value} of type \texttt{type} is not expected in the context of the command.

User response: Correct the command to be executed and then try the operation again.

msgcode: -4200
sqlstate: 38SD0

GSE4201N No command was specified.
Explanation: No command to be executed was specified.
User response: Specify a command.
msgcode: -4201
sqlstate: 38SD1

GSE4202N Parsing of command failed.
Explanation: The given command syntax could not be parsed successfully.
User response: Correct the syntax and execute the command again.
msgcode: -4202
sqlstate: 38SD2

GSE4203N Unexpected end-of-statement found following token t0ken.
Explanation: An unexpected end of the statement was found after parsing token t0ken.
User response: Correct the syntax and execute the command again.
msgcode: -4203
sqlstate: 38SD3

GSE4204N Parsing failed near token t0ken.
Explanation: An unexpected parse error occurred near token t0ken.
User response: Correct the syntax and execute the command again.
msgcode: -4204
sqlstate: 38SD4

GSE4205N Spatial Extender found more than one type clause.
Explanation: While Spatial Extender parsed the command, it found more than one clause of data type type.
User response: Specify only one clause of type and execute the command again.
msgcode: -4205
sqlstate: 38SD5

GSE9000N The database is not at the Spatial Extender Version 7 level.
Explanation: The database is not at the Spatial Extender Version 7 level and you are attempting to perform an operation such as migration to Version 8.
User response: Verify the version of the database and the operation you are attempting to perform.
msgcode: -9000
sqlstate: 38SZ0

GSE9001N The database is already at the Spatial Extender Version 8 level.
Explanation: The database is already at the Spatial Extender Version 8 level and you are attempting to perform an operation such as migration to Version 8.
User response: Verify the version of the database and the operation you are attempting to perform.
msgcode: -9001
sqlstate: 38SZ1

GSE9002N An error occurred during the upgrade of Spatial Extender database objects.
Explanation: An error was encountered during an attempt to upgrade the Spatial Extender catalog and spatial functions. Possible reasons are:
• The database is not spatially-enabled
• The version of the database that you are trying to upgrade is not supported by the db2se upgrade command.
• An internal processing error occurred during the upgrade process.
User response: Perform one of the following actions:
• Use the db2se enable_db command to use this database for spatial processing.
• Verify that the version of the database that you are trying to upgrade is supported by the db2se upgrade command and reissue this command.
• Contact the DB2 support team to report internal processing errors.

For more information, refer to the db2se upgrade message file.
msgcode: -9002
sqlstate: 38SZ2
A dependency between user-defined objects and Spatial Extender objects exists.

Explanation: The Spatial Extender objects could not be upgraded because some user-defined objects have dependencies on Spatial Extender objects.

User response: Review the db2se upgrade message file to determine what dependencies exist.

Issue the db2se upgrade command with the force option to save and restore the user-defined objects that depend on the Spatial Extender objects.

msgcode: -9003
sqlstate: 38SZ3

An internal error occurred: error-text.

Explanation: Spatial Extender encountered an unexpected internal error with the text error-text.

User response: Read the given error-text. If the problem cannot be resolved, contact IBM Software Support.

msgcode: -9990
sqlstate: 38SZY

Internal message failure.

Explanation: An internal failure occurred while Spatial Extender was retrieving an error message.

User response: Contact IBM Software Support.

msgcode: -9999
sqlstate: 38SZZ
Part 17. ICM Messages
Chapter 102. ICM0000 - ICM0499

**ICM00001N** An SQL error occurred while connecting to the database. Database = *database*, Catalog = *catalogname*.

**Explanation:** An SQL error occurred when the API attempted to open a connection to the database.

**User response:** Consult the Message Reference for more information on this SQL error.

**ICM0002N** An SQL error occurred while registering application *applicationname*.

**Explanation:** An SQL error occurred while the Information Catalog Manager API attempted to register the specified application.

**User response:** Check the Message Reference for more information on this SQL error.

**ICM0003N** An SQL error occurred while searching for objects.

**Explanation:** An SQL error occurred while the Information Catalog Manager API was performing a search of the IBM DB2 tools catalog.

**User response:** Check the Message Reference for more information about this SQL error.

**ICM0004N** An SQL error occurred while accessing the Information Catalog Manager API settings for the application *applicationname*.

**Explanation:** An SQL error occurred while the Information Catalog Manager API attempted to retrieve the settings for the application.

**User response:** Check the Message Reference for more information about this SQL error.

**ICM0005N** An SQL error occurred while retrieving the user and group information from the database.

**Explanation:** An SQL error occurred while the Information Catalog Manager API attempted to retrieve information about users and groups from the database.

**User response:** Check the Message Reference for more information about this SQL error.

**ICM0006N** An SQL error occurred while loading the list of registered applications.

**Explanation:** An SQL error occurred while the Information Catalog Manager API attempted to retrieve the list of applications.

**User response:** Check the Message Reference for more information about this SQL error.

**ICM0007N** An SQL error occurred while retrieving the application ID for the application *applicationname*.

**Explanation:** An SQL error occurred while the Information Catalog Manager API attempted to retrieve the application ID for the specified application.

**User response:** Check the Message Reference for more information on this SQL error.

**ICM0008N** An SQL error occurred while loading an object type.

**Explanation:** An SQL error occurred while the Information Catalog Manager API attempted to retrieve an object type definition from the IBM DB2 tools catalog.

**User response:** Check the Message Reference for more information on this SQL error.

**ICM0009N** An SQL error occurred while creating object type *objecttype*.

**Explanation:** An SQL error occurred while the Information Catalog Manager API was creating the specified object type.

**User response:** Check the Message Reference for more information on this SQL error.

**ICM0010N** An SQL error occurred while updating the object type *objecttype*.

**Explanation:** An SQL error occurred while the Information Catalog Manager API was updating the specified object type.

**User response:** Check the Message Reference for more information on this SQL error.

**ICM0011N** An SQL error occurred while deleting object type *objecttype*.

**Explanation:** An SQL error occurred while the Information Catalog Manager API was deleting the specified object type.

**User response:** Check the Message Reference for more information on this SQL error.
ICM0012N An SQL error occurred while retrieving a reference ID for object type objecttype.

Explanation: An SQL error occurred while the Information Catalog Manager API was retrieving the next available reference ID for the specified object type.

User response: Check the Message Reference for more information on this SQL error.

ICM0013N An SQL error occurred while loading an object instance from the IBM DB2 tools catalog.

Explanation: An SQL error occurred while the Information Catalog Manager API was loading the data for an object instance from the IBM DB2 tools catalog.

User response: Check the Message Reference for more information on this SQL error.

ICM0014N An SQL error occurred while creating instance instancename of object type objecttype.

Explanation: An SQL error occurred while the Information Catalog Manager API was creating an object instance in the IBM DB2 tools catalog.

User response: Check the Message Reference for more information on this SQL error.

ICM0015N An SQL error occurred while updating an instance of object type objecttype.

Explanation: An SQL error occurred while the Information Catalog Manager API was updating an object instance in the IBM DB2 tools catalog.

User response: Check the Message Reference for more information on this SQL error.

ICM0016N An SQL error occurred while deleting an instance of object type objecttype.

Explanation: An SQL error occurred while the Information Catalog Manager API was deleting an object instance from the IBM DB2 tools catalog.

User response: Check the Message Reference for more information on this SQL error.

ICM0017N An SQL error occurred while loading property propertyname.

Explanation: An SQL error occurred while the Information Catalog Manager API was loading the value for the specified object instance property.

User response: Check the Message Reference for more information on this SQL error.

ICM0018N An SQL error occurred while loading a relationship category.

Explanation: An SQL error occurred while the Information Catalog Manager API was loading a relationship category from the IBM DB2 tools catalog.

User response: Check the Message Reference for more information on this SQL error.

ICM0019N An SQL error occurred while creating relationship category categoryname.

Explanation: An SQL error occurred while the Information Catalog Manager API was creating the relationship category in the IBM DB2 tools catalog.

User response: Check the Message Reference for more information on this SQL error.

ICM0020N An SQL error occurred while updating relationship category categoryname.

Explanation: An SQL error occurred while the Information Catalog Manager API was updating the relationship category in the IBM DB2 tools catalog.

User response: Check the Message Reference for more information on this SQL error.

ICM0021N An SQL error occurred while deleting relationship category categoryname.

Explanation: An SQL error occurred while the Information Catalog Manager API was deleting the relationship category from the IBM DB2 tools catalog.

User response: Check the Message Reference for more information on this SQL error.

ICM0022N An SQL error occurred while loading a relationship type.

Explanation: An SQL error occurred while the Information Catalog Manager API was loading a relationship type from the IBM DB2 tools catalog.

User response: Check the Message Reference for more information on this SQL error.

ICM0023N An SQL error occurred while creating relationship type typename.

Explanation: An SQL error occurred while the Information Catalog Manager API was creating the relationship type in the IBM DB2 tools catalog.

User response: Check the Message Reference for more information on this SQL error.
ICM0024N An SQL error occurred while updating relationship type typename.

Explanation: An SQL error occurred while the Information Catalog Manager API was updating the relationship type in the IBM DB2 tools catalog.

User response: Check the Message Reference for more information on this SQL error.

ICM0025N An SQL error occurred while deleting relationship type typename.

Explanation: An SQL error occurred while the Information Catalog Manager API was deleting the relationship type from the IBM DB2 tools catalog.

User response: Check the Message Reference for more information on this SQL error.

ICM0026N An SQL error occurred while loading a relationship instance.

Explanation: An SQL error occurred while the Information Catalog Manager API was loading the information for a relationship instance from the IBM DB2 tools catalog.

User response: Check the Message Reference for more information on this SQL error.

ICM0027N An SQL error occurred while creating an instance for relationship type typename.

Explanation: An SQL error occurred while the Information Catalog Manager API was creating an instance of the relationship type in the IBM DB2 tools catalog.

User response: Check the Message Reference for more information on this SQL error.

ICM0028N An SQL error occurred while updating an instance of relationship type typename.

Explanation: An SQL error occurred while the Information Catalog Manager API was updating an instance of the relationship type in the IBM DB2 tools catalog.

User response: Check the Message Reference for more information on this SQL error.

ICM0029N An SQL error occurred while deleting an instance of relationship type typename.

Explanation: An SQL error occurred while the Information Catalog Manager API was deleting an instance of the relationship type from the IBM DB2 tools catalog.

User response: Check the Message Reference for more information on this SQL error.

ICM0030N An SQL error occurred while committing changes on the context.

Explanation: An SQL error occurred while the Information Catalog Manager API was attempting to commit a context to the database.

User response: Check the Message Reference for more information on this SQL error.

ICM0031N An SQL error occurred while rolling back changes on the context.

Explanation: An SQL error occurred while the Information Catalog Manager API attempted to rollback a context to the database.

User response: Check the Message Reference for more information on this SQL error.

ICM0032N An SQL error occurred while releasing the context.

Explanation: An SQL error occurred while the Information Catalog Manager API was releasing a context.

User response: Check the Message Reference for more information on this SQL error.

ICM0033N An SQL error occurred while accessing the context's connection properties.

Explanation: An SQL error occurred while the Information Catalog Manager API was accessing the database connection details for a context.

User response: Check the Message Reference for more information on this SQL error.

ICM0034N An SQL error occurred while cancelling a search operation.

Explanation: An SQL error occurred while the Information Catalog Manager API was processing a user request to cancel a search operation.

User response: Check the Message Reference for more information on this SQL error.

ICM0035N An SQL error occurred while loading an access control list.

Explanation: An SQL error occurred while the Information Catalog Manager API was loading information in an access control list from the IBM DB2 tools catalog.

User response: Check the Message Reference for more information on this SQL error.
ICM0036N  An SQL error occurred while updating access control list accesslistname.

Explanation: An SQL error occurred while the Information Catalog Manager API was updating the access control list in the IBM DB2 tools catalog.

User response: Check the Message Reference for more information on this SQL error.

ICM0037N  An SQL error occurred while accessing the data of Blob property propertyname.

Explanation: An SQL error occurred while the Information Catalog Manager API was loading the data for the specified Blob property.

User response: Check the Message Reference for more information on this SQL error.

ICM0038N  An SQL error occurred while retrieving the version information of the IBM DB2 tools catalog.

Explanation: An SQL error occurred while the Information Catalog Manager API queried the database for the version information of the database engine and the IBM DB2 tools catalog.

User response: Check the Message Reference for more information on this SQL error.

ICM0039N  An SQL error occurred while retrieving the access control entries for an object.

Explanation: An SQL error occurred while the Information Catalog Manager API was loading the access control data for an object.

User response: Check the Message Reference for more information on this SQL error.

ICM0040N  An SQL error occurred while creating access control list accesslistname.

Explanation: An SQL error occurred while the Information Catalog Manager API was creating the access control list in the IBM DB2 tools catalog.

User response: Check the Message Reference for more information on this SQL error.

ICM0041N  An SQL error occurred while deleting access control list accesslistname.

Explanation: An SQL error occurred while the Information Catalog Manager API was deleting the access control list from the IBM DB2 tools catalog.

User response: Check the Message Reference for more information on this SQL error.

ICM0042N  An SQL error occurred while locking object type typename.

Explanation: An SQL error occurred while the Information Catalog Manager API was locking the object type to prevent access by other applications.

User response: Check the Message Reference for more information on this SQL error.

ICM0043N  An SQL error occurred while loading an object ID.

Explanation: An SQL error occurred while the Information Catalog Manager API was loading the ID for an object instance from the IBM DB2 tools catalog.

User response: Check the Message Reference for more information on this SQL error.

ICM0100N  Unable to connect to the IBM DB2 tools catalog. Database = databasename, Catalog = catalogname.

Explanation: Incorrect values were provided for the database or catalog names.

User response: Provide valid values for the database and catalog. The database name must refer to a database that has been cataloged on the system where the Information Catalog Manager API is being run. The catalog name must refer to the schema inside the database used to hold the DB2 tools catalog.

ICM0101N  This catalog object is already connected to an IBM DB2 tools catalog.

Explanation: Failed to open a connection to a DB2 tools catalog using a catalog object that already had an open connection.

User response: Check that the catalog object is not already open.

ICM0102N  Schema schemaname in database databasename does not contain a valid IBM DB2 tools catalog. Table tablename was not found.

Explanation: Unable to find the required table tablename while the catalog opened a connection to the IBM DB2 tools catalog.

User response: Check that the schema and database names are correct, and that a DB2 tools catalog has been created for schema schemaname.

ICM0103N  Incorrect arguments provided to orphan relationship search.

Explanation: The emptySource and emptyTarget parameters to the orphanRelationships( Context, Object, Collection, Collection, boolean, bJolean, SearchRules )
method of the Catalog object were both false, which is incorrect.

**User response:** One or both of the parameters emptySource and emptyTarget must be true.

---

**ICM0104N**  
**applicationname** is a reserved application name.

**Explanation:** The application name **applicationname** is reserved for use by the Information Catalog Manager API.

**User response:** Use a different name for the application name.

---

**ICM0105N**  
Application **applicationname** is already registered.

**Explanation:** An application named **applicationname** has been previously registered with the Information Catalog Manager API.

**User response:** Register the application using a different name or use the existing registered application ID.

---

**ICM0106N**  
Application **applicationname** has not been registered.

**Explanation:** An attempt was made to use an unregistered application name for an application.

**User response:** Register the application name before using it or use the name of an application that has already been registered.

---

**ICM0107N**  
An application must be associated with the catalog object before the IBM DB2 tools catalog can be accessed.

**Explanation:** Attempted to access the IBM DB2 tools catalog before associating an application with the catalog object.

**User response:** Associate an application with the catalog object using the setApplicationName( String ) method of the catalog class before using the catalog object to access the IBM DB2 tools catalog.

---

**ICM0108N**  
Unable to close catalog while contexts remain unreleased.

**Explanation:** One or more contexts were in an unreleased state while the close method of a catalog object was called.

**User response:** Release all contexts opened against a catalog before closing the catalog.

---

**ICM0109N**  
Incorrect constraint object encountered while saving constraints.

**Explanation:** An I/O error occurred while preparing a constraint to be saved to the database.

**User response:** Check that the constraint object is Serializable.

---

**ICM0110N**  
Incorrect constraint object encountered while loading constraints.

**Explanation:** An I/O error occurred while recreating a constraint from the data stored in the IBM DB2 tools catalog.

**User response:** Contact your IBM service representative.

---

**ICM0111N**  
Cannot register application **applicationname**. No IDs are available.

**Explanation:** There are 63 available application IDs. Attempted to register a 64th application.

**User response:** Remove any registered applications that are no longer being used with this IBM DB2 tools catalog and contact your IBM service representative.

---

**ICM0112N**  
Incorrect arguments provided to getACEsForPrincipal( Context, String, boolean, Collection ) method.

**Explanation:** The value for the principal or the collection of object types to retrieve access control entries was null.

**User response:** Specify non-null values for the principal and the collection of object types.

---

**ICM0113N**  
Incorrect arguments provided to getObjectsOwnedByUser( Context, String, Collection ) method.

**Explanation:** The value was null for the user or the Collection of object types to retrieve the owned objects.

**User response:** Specify non-null values for both the user and the Collection of object types.

---

**ICM0200N**  
The setProperties( Collection ) method of an object type cannot be used after the object type has been created.

**Explanation:** Attempted to use the setProperties( Collection ) method on an object type that has already been created in the IBM DB2 tools catalog.

**User response:** Use the addProperty( MetadataPropertyDefinition ) method to add new properties individually or create a new object type.
ICM0201N System property *propertyname* must be specified when setting the properties of this object type.

**Explanation:** The system property *propertyname* was not in the list of properties provided to the `setProperties(Collection)` method.

**User response:** The list of properties provided to the `setProperties(Collection)` method must include all of the system properties.

---

ICM0202N Property *propertyname* is in use by index *indexname* of object type *typename*. The property must be specified when setting the list of properties for the object type.

**Explanation:** The property *propertyname* must remain in the set of properties for the object type because the property is being used by an index.

**User response:** Remove the property from the specified index, remove the index, or add the property to the set of properties for the object type.

---

ICM0203N Object *object* is not a metadata property object.

**Explanation:** An incorrect object was found in the set of properties being assigned to an object type.

**User response:** The set of properties provided to `setProperties(Collection)` must contain only `MetadataPropertyDefinition` objects. Remove any objects that are of a different type.

---

ICM0204N Duplicate property named *propertyname* was found in list.

**Explanation:** A call to `setProperties(Collection)` had multiple property objects with the same name.

**User response:** Remove or rename any properties with duplicate names.

---

ICM0205N No property definition named *propertyname* exists for this object type.

**Explanation:** A call to `getProperty(String)` was made using a property that is not defined for the object type.

**User response:** Use the `getProperty(String)` method to retrieve all properties if the name of a specific property is not known.

---

ICM0206N An object type named *typename* already exists in the datastore.

**Explanation:** Attempted to create or rename an object type with an existing name.

**User response:** Chose a unique name for the new object type.

---

ICM0207N Unable to delete object type *typename* while it has object instances defined.

**Explanation:** Attempted to delete an object type with instances defined without selecting the delete instances option.

**User response:** Delete all of the instances before deleting an object type or use the delete instances option of the `delete(boolean)` method of the object type.

---

ICM0208N Cannot use the `setTableOptions(String)` method of an object type after the object type has been created.

**Explanation:** Attempted to modify the table options clause after the object type was created. The table options clause can only be used when creating the table.

**User response:** Set the desired table options before creating the object type.

---

ICM0209N The `setSchemaName(String)` method of an object type cannot be used after the object type has been created.

**Explanation:** Attempted to modify the schema for the object instance table after the object type has been created.

**User response:** Set the desired schema before creating the object type.

---

ICM0210N Property *propertyname* specified for index *indexname* is not a property of object type *typename*.

**Explanation:** An index provided to the object type contained one or more properties that do not belong to the object type.

**User response:** Check that all properties in an index are the correct property definition objects defined for an object type. Use the `getProperties()` and `getProperty(String)` methods to retrieve the correct property definition objects.

---

ICM0211N The type of object instance *instancename* does not match object type (*typename*).

**Explanation:** One of the object instances provided did not match the `createObjects(Context, Collection)` method object type.

**User response:** The `createObjects(Context, Collection)` method can only handle object instances that are of the same object type.
ICM0212N  String searchcriteria is an invalid search criteria for the name property.

Explanation: Failed to search object instances by name because the name parameter provided was not a value.
User response: The name parameter cannot be null.

ICM0213N  An incorrect query filter object was provided to the getObjectInstances(Context, Object, QueryFilterObject, SearchRules, boolean) method of an object type.

Explanation: The query filter object was either null or was for a different object type than the one it was passed to.
User response: Define a query filter object for the object type that is being searched.

ICM0214N  The list of object types is not valid.

Explanation: A list of object types provided to one of the Information Catalog Manager API methods was not valid. The object type list was either null or empty.
User response: Check that the list of object types contains at least one object type.

ICM0215N  The data type specified while creating a property definition object was not valid.

Explanation: The value specified did not identify one of the allowed data types.
User response: Check that the value for the data type is a data type constant defined in the MetadataPropertyDefinition class.

ICM0216N  Index typename does not exist for object type typename.

Explanation: Object type typename could not grant a request to remove index typename because an index with that name does not exist.
User response: Check that the index is defined for the object type before attempting to remove it.

ICM0217N  Property propertyname is defined multiple times in index typename of object type typename.

Explanation: An index provided to the object type typename has the same property defined multiple times.
User response: Remove all duplicate properties from the index.

ICM0218N  Index typename does not exist for object type typename.

Explanation: An index with the name typename is already defined for object type typename.
User response: Choose a unique name for the new index, or remove the existing one to replace it with the new one.

ICM0219N  An incorrect query filter object was provided to the getObjectInstances(Context, Object, QueryFilterObject, SearchRules, boolean) method of an object type.

Explanation: An incorrect query filter object was provided to the method because the name parameter provided was not a value.
User response: The name parameter cannot be null.

ICM0220N  Index indexname duplicates the definition of index indexname of object type typename.

Explanation: An index already exists with the requested definition for the object type.
User response: Either modify the new index to make it different than all existing indexes, or just use the existing indexes if they provide sufficient indexing for the object type.

ICM0300N  The requested object instance was not found in the datastore.

Explanation: Attempted to load the value of a property for an object instance that has not been created in the datastore.
User response: Contact your IBM service representative.

ICM0301N  A property update request violates property constraint constraintname.

Explanation: The operation cannot be performed because constraint constraintname does not allow it.
User response: Choose a value allowed by the constraint or remove the constraint from the property definition.

ICM0302N  The object type has already been set for this instance.

Explanation: Attempted to set the object type for an instance that already had a type defined.
User response: Instances that already have a type defined cannot have their type changed.
ICM0303N The specified object type is not valid.
Explanation: The object type provided to the object instance `setObject( ObjectType )` method is not valid. The object type is either null or has not yet been created.
User response: Check that the object type passed to the `setObject(ObjectType)` method has been created.

ICM0304N No property named `propertyname` exists for this object instance.
Explanation: Attempted to retrieve a property that does not exist.
User response: Check the spelling of the property name and that the case matches. Use the `getProperties()` method to get a list of all defined properties.

ICM0305N The object instance is not in a valid state.
Explanation: The object instance is not able to handle requests for data or updates because it is not valid.
User response: Reload the object instance from the IBM DB2 tools catalog. If it is a new instance check that an object type is set.

ICM0306N A name is required for the object instance.
Explanation: The object instance is not valid because the name has not been set.
User response: Provide a non-null value for the name property of the object instance.

ICM0307N Property `propertyname` is not valid.
Explanation: The object instance is not valid because the property value is null when the property is required or the property value violates one of the property constraints.
User response: Provide a valid value for the specified property.

ICM0308N The current application does not have permission to update this object.
Explanation: The current application is not the owning application and does not have application update authority on the specified object.
User response: Use the owning application to grant authority to the current application.

ICM0309N Property `propertyname` does not belong to this object instance.
Explanation: Attempted to load a property value to an incorrect object instance.
User response: Contact your IBM service representative.

ICM0310N The value for property `propertyname` exceeds the property definition's maximum length.
Explanation: The property value is longer than the maximum size allowed by the object type's property definition.
User response: Use a smaller property value.

ICM0311N Property `propertyname` must have a value.
Explanation: The property `propertyname` is required but is set with a null value.
User response: Set the property with a non-null value.

ICM0312N Property `propertyname` violates constraint `constraintname`.
Explanation: The value assigned to property `propertyname` is not allowed by constraint `constraintname`.
User response: Use a value that is allowed by the constraint or remove the constraint from the property definition.

ICM0400N The list of relationship objects is not valid.
Explanation: The list of relationship objects is null or empty.
User response: Check that the list of relationship objects contains at least one relationship.

ICM0401N Adding the specified relationship would result in a loop in the relationship category tree.
Explanation: The requested change would result in a relationship category containing itself.
User response: Check that there are no loops in the hierarchy of relationships.

ICM0402N The relationship category `categoryname` already exists.
Explanation: Failed to create a new relationship category because the category had the same name as an existing category.
User response: Use a unique name for the new relationship type.

ICM0403N The relationship type typename already exists.

Explanation: Failed to create a new relationship type because the type had the same name as an existing type. Failed to create a new relationship type because the type had the same name as an existing type.

User response: Use a unique name for the new relationship type.

ICM0404N Unable to delete relationship type typename because there are relationship instances defined for it.

Explanation: Relationship types cannot be deleted if relationship instances of that type exist.

User response: Delete all instances of the relationship type before deleting the type or use the delete instances option of the relationship type delete method.

ICM0405N The ObjectType being added to the ObjectTypeRelationshipConstraint has not been created.

Explanation: The relationship constraint attempted to use an object type that has not yet been created in the database.

User response: Call the create() method of the object type before using it in a relationship constraint.
Chapter 103. ICM0500 - ICM0999

ICM0500N The object passed to the relationship instance is not valid. All objects must be ObjectInstance or ObjectID objects.

Explanation: The type of an object provided as a source or target to a relationship instance was not one of the allowed types.

User response: Use only ObjectInstance or ObjectID objects as sources and targets for relationship instances.

ICM0501N An object instance must be created in the database before it can be added to a relationship.

Explanation: An object instance that has not yet been created in the database cannot be assigned to any relationships.

User response: Call the create() method on new object instances before attempting to add them to a relationship.

ICM0502N Unable to add a null ObjectID to a relationship.

Explanation: The Java object representing the ObjectID that was provided to the relationship object was null.

User response: Use a non-null value for the ObjectID.

ICM0503N The relationship instance violates one or more constraints.

Explanation: One or more of the relationship instance constraints were violated by the current set of source and target objects defined for the instance.

User response: Check the defined constraints and add or remove sources or targets as needed.

ICM0504N The relationship instance is not in a valid state.

Explanation: The relationship instance is in an unusable state.

User response: Check that the relationship type for the instance exists and that none of the constraints are violated. Then reload the relationship instance from the database.

ICM0600N The current user does not have permission to update this object.

Explanation: Failed to update an object because the user does not have sufficient authority.

User response: The object's owner must grant permission to users before they can update the object.

ICM0601N The current user does not have permission to delete this object.

Explanation: Failed to delete an object because the user does not have sufficient authority.

User response: The object owner must grant users permission to delete the object.

ICM0602N The current user does not have permission to delete one of the instances of this relationship type.

Explanation: The current user is unable to delete a relationship type and its instances because the user does not have authority to delete one of the instances.

User response: User needs the authority to delete all the instances of a relationship type in order to delete the relationship type.

ICM0603N A name must be specified for the access control list before it can be saved.

Explanation: Failed to update an access control list because the name has been set to null.

User response: Check that the access control list has a valid name.

ICM0604N An access control list named accesslistname already exists in the datastore.

Explanation: The new access control list cannot be created because it has the same name as an existing access control list.

User response: Specify a unique name for the new access control list.

ICM0605N An access control list named accesslistname is not valid.

Explanation: The access control list cannot be saved because it is no longer valid.

User response: Reload the access control list from the IBM DB2 tools catalog.

ICM0700N The data for this object has been modified in the IBM DB2 tools catalog by a different process.
ICM0701N  Object does not exist.
Explanation:  Information Catalog Manager API request failed because it attempted to use an object that has not been created in the IBM DB2 tools catalog.
User response:  Call the create method of the object before using the method.

ICM0702N  Object already exists.
Explanation:  The create method was called on an object that has already been created.
User response:  Use the update method rather than the create method to update objects that already exist.

ICM0703N  Object is not in a valid state.
Explanation:  The object cannot be created or updated because it is not in a valid state.
User response:  Reload the object from the IBM DB2 tools catalog.

ICM0704N  Duplicate request ID idname passed to search method.
Explanation:  The request ID provided to a search method is already in use by a different search.
User response:  Use a different request ID or wait for the already running search to finish.

ICM0705N  Cannot switch to a null Context.
Explanation:  The context for an Information Control Center object cannot be set to null.
User response:  Specify a non-null value to the setContext( Context ) method of the Information Control Center object.

ICM0706N  Cannot switch to a new context while a transaction is pending on the existing context.
Explanation:  Attempted to switch the context of an object while there was an active transaction involving the object.
User response:  Commit the current context changes to the object before switching to a different context.
ICM0713N  Number of values provided to the query filter condition was not valid. One parameter was expected.

Explanation: The number of parameters provided for a query filter condition does not match the number expected for the operator of the condition.

User response: Provide the correct number of parameters. No parameters are allowed for OP_IS_NULL and OP_IS_NOT_NULL. Two parameters are required for OP_BETWEEN and OP_NOT_BETWEEN. Any number of parameters greater than zero are allowed for OP_IN and OP_NOT_IN. One parameter is required for all other operators.

ICM0800N  Specified a migration operation type that was not valid.

Explanation: The value of the operation type specified to the ICMMigration migrate( int ) method was not a valid migration operation type.

User response: Use one of the migration operation types defined in the ICMDatastoreInit class (MIG_REPLACE, MIG_SKIP or MIG_ERROR).

ICM0801N  The definition of the property propertyname of the IBM DB2 Version 7 object type typename being migrated is different than the existing property definition for the DB2 Version 8 object type.

Explanation: An object type being migrated already exists in the DB2 Version 8 tools catalog. One of the properties of the object type differs in either data type or size between the DB2 Version 7 and Version 8 object type definitions.

User response: Use the replace migration operation type or delete the existing DB2 Version 8 object type before migrating the DB2 Version 7 catalog.

ICM0802N  The property propertyname of the IBM DB2 Version 8 object type typename does not exist in the DB2 Version 7 object type of the same name being migrated.

Explanation: An object type being migrated already exists in the DB2 Version 8 tools catalog, but one of the properties of the existing DB2 Version 8 object type does not exist in the DB2 Version 7 object type definition.

User response: Run the migration using a different operation type than MIG_ERROR or delete the existing DB2 Version 8 object type before running the migration.
**ICM0803N** The property `propertyname` for the IBM DB2 Version 7 object type `typename` does not exist in the DB2 Version 8 object type of the same name.

**Explanation:** The object type being migrated exists in the DB2 Version 8 tools catalog, but one of the object type's properties being migrated from DB2 Version 7 does not exist in the DB2 Version 8 object type definition.

**User response:** If the missing property is optional, use the Information Catalog Center initialization tool to add the missing property to the DB2 Version 8 object type before migrating. If the missing property is required, remove the DB2 Version 8 object type from the tools catalog before migrating.

**ICM0804N** The value of the property `propertyname` for instance `instancename` of object type `typename` is not in a valid date/time format.

**Explanation:** The value of a date/time property in a DB2 Version 7 catalog is not in a recognized date/time format.

**User response:** Manually change the IBM DB2 Version 7 data to a valid date/time format for the current location.

**ICM0805N** The data type of the `propertyname` property for instance `instancename` of object type `objecttype` is not supported by the migration tool.

**Explanation:** The migration tool cannot migrate object types with properties that have data types other than character or date/time strings.

**User response:** The object type cannot be migrated. Check that the catalog has not been corrupted.

**ICM0806N** Cannot recognize the relationship type flag `typename` in the IBM DB2 Version 7 catalog being migrated.

**Explanation:** The value of the relationship type flag is not a recognized value.

**User response:** The IBM DB2 Version 7 catalog is not valid. The relationship instance with this type flag will not be migrated.

**ICM0807N** Could not find relationship type `typename`.

**Explanation:** The predefined relationship type `typename` was not found in the IBM DB2 tools catalog.

**User response:** Contact your IBM service representative.

**ICM0808N** Object instance `instancename` violates a unique index on object type `typename` and cannot be created.

**Explanation:** The instance could not be created because it violates one of the unique indexes defined for the object type.

**User response:** Remove the index or delete the IBM DB2 Version 7 object instance that causes the index violation before running the migration tool.

**ICM0900N** An I/O error occurred while opening the log file `filename`.

**Explanation:** The initialization tool was unable to open the log file because of an I/O exception.

**User response:** Check that the specified file path exists and that the file is not read-only or being used by another application.

**ICM0901N** An SQL error occurred while creating the Information Catalog Manager API tables.

**Explanation:** An SQL error occurred while the initialization tool was creating the tables required by the Information Catalog Manager API.

**User response:** Check the Message Reference for more information on this SQL error.

**ICM0902N** An SQL error occurred during migration.

**Explanation:** An SQL error occurred while the migration tool was retrieving the IBM DB2 Version 7 data being migrated.

**User response:** Check the Message Reference for more information on this SQL error.

**ICM0903N** An SQL error occurred while creating the DB2 Version 7 Information Catalog emulation views.

**Explanation:** An SQL error occurred while the initialization tool was creating the views that provide emulation of the DB2 version 7 Information Catalog Manager tables.

**User response:** Check the Message Reference for more information on this SQL error.

**ICM0904N** Table `tablename` is missing from the IBM DB2 tools catalog.

**Explanation:** The check option for the Information Catalog Manager API initialization found that table `tablename` was not defined.

**User response:** Run the Information Catalog Manager
API initialization with the fix option to repair this error.

<table>
<thead>
<tr>
<th>ICM0905N</th>
<th><strong>Table <code>tablename</code> contains at least one column with a definition that is not valid.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The check option for the Information Catalog Manager API initialization found that table <code>tablename</code> contains at least one column that has a different type than that which is required.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Run the Information Catalog Manager API initialization with the fix option in force mode to repair this error. Using the force option may result in lost data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ICM0906N</th>
<th><strong>Table <code>tablename</code> contains at least one column that is not part of the datastore definition.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The check option for the Information Catalog Manager API initialization found that table <code>tablename</code> contains at least one column that does not exist in the table definition.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>If nulls are allowed for this column then it will not affect the Information Catalog Manager API. To remove it, run the Information Catalog Manager API initialization with the fix option in force mode to repair this error. Using the force option may result in lost data.</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>ICM0907N</th>
<th><strong>Column <code>columnname</code> of table <code>tablename</code> is missing from the datastore.</strong></th>
</tr>
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<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The check option for the Information Catalog Manager API initialization found that table <code>tablename</code> is missing at least one column that is required by the Information Catalog Manager API.</td>
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<td><strong>User response:</strong></td>
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<tr>
<th>ICM0908N</th>
<th><strong>Table <code>tablename</code> is missing its primary key definition.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The check option for the Information Catalog Manager API initialization found that table <code>tablename</code> is missing the required primary key definition.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Run the Information Catalog Manager API initialization with the fix option to repair this error.</td>
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<tr>
<th>ICM0909N</th>
<th><strong>Table <code>tablename</code> is missing its primary key definition.</strong></th>
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<tr>
<td><strong>Explanation:</strong></td>
<td>The check option for the Information Catalog Manager API initialization found that the primary key for table <code>tablename</code> does not match the primary key that is required by the Information Catalog Manager API.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Run the Information Catalog Manager API initialization with the fix option in force mode to repair this error. Using the force option may result in lost data.</td>
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<table>
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<tr>
<th>ICM0910N</th>
<th><strong>Table <code>tablename</code> is missing an index definition.</strong></th>
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<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The check option for the Information Catalog Manager API initialization found that table <code>tablename</code> is missing a required index.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Run the Information Catalog Manager API initialization with the fix option to repair this error.</td>
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<table>
<thead>
<tr>
<th>ICM0911N</th>
<th><strong>Table <code>tablename</code> has an invalid index defined.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The check option for the Information Catalog Manager API initialization discovered that table <code>tablename</code> has an index defined which does not match the indexes required by the Information Catalog Manager API.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>If the index is a unique index, it may interfere with the proper functioning of the Information Catalog Manager API. Run the Information Catalog Manager API initialization with the fix option in force mode to repair this error. Using the force option may result in lost data.</td>
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<tr>
<th>ICM0912N</th>
<th><strong>Index <code>indexname</code> on table <code>tablename</code> is not part of the datastore definition.</strong></th>
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<tbody>
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<td><strong>User response:</strong></td>
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<th>ICM0913N</th>
<th><strong>Function <code>functionname</code> is missing from the IBM DB2 tools catalog.</strong></th>
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<tr>
<td><strong>Explanation:</strong></td>
<td>The check option for the Information Catalog Manager API initialization found that the function <code>functionname</code> is missing from the DB2 tools catalog.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Run the Information Catalog Manager API initialization with the fix option to repair this error.</td>
</tr>
</tbody>
</table>
ICM0914N The definition of function functionname is not valid.

Explanation: The check option for the Information Catalog Manager API initialization discovered that the definition of function functionname does not match that which is required by the Information Catalog Manager API.

User response: Run the Information Catalog Manager API initialization with the fix option in force mode to repair this error. Using the force option may result in lost data.

ICM0915N Trigger triggername is missing from the IBM DB2 tools catalog.

Explanation: The check option for the Information Catalog Manager API initialization discovered that the trigger triggername is missing from the IBM DB2 tools catalog.

User response: Run the Information Catalog Manager API initialization with the fix option to repair this error.

ICM0916N The definition of trigger triggername is not valid.

Explanation: The check option for the Information Catalog Manager API initialization discovered that the definition of trigger triggername does not match the definition that is required by the Information Catalog Manager API.

User response: Run the Information Catalog Manager API initialization with the fix option in force mode to repair this error. Using the force option may result in lost data.

ICM0917N Trigger triggername is not part of the datastore definition.

Explanation: The check option for the Information Catalog Manager API initialization discovered that a trigger named triggername is defined for one of the DB2 tools catalog tables which does not match any of the triggers required by the initialization tool.

User response: Run the Information Catalog Manager API initialization with the fix option in force mode to repair this error. Using the force option may result in lost data.

ICM0918N The view viewname is missing from the DB2 tools catalog.

Explanation: The check option for the Information Catalog Manager API initialization found that the view named viewname was not defined.

User response: Run the Information Catalog Manager API initialization with the fix option to repair this error.

ICM0919N Property propertyname of object type typename has a different data type than the property of the default object type.

Explanation: An existing object type matches the name of one of the default object types, but one of its properties has a different data type than the default definition for the object type.

User response: No change is required to keep the current definition. To replace the object type with the default definition, run the application initialization with the APP_REPLACE option.

ICM0920N Property propertyname of object type typename does not exist in the default definition for the object type.

Explanation: An existing object type matches the name of one of the default object types, but one of its properties has a different data type than the default definition for the object type.

User response: No change is required to keep the current definition. To replace the object type with the default definition, run the application initialization with the APP_REPLACE option.

ICM0921N Property propertyname of object type typename exists in the default definition, but is missing from the existing object type.

Explanation: An existing object type matches the name of one of the default object types, but one of its properties has a different data type than the default definition for the object type.

User response: No change is required to keep the current definition. To replace the object type with the default definition, run the application initialization with the APP_REPLACE or APP_MERGE options.

ICM0922N Could not access the Manage Information Catalog wizard because a valid license for DB2 Warehouse Manager could not be found. Please contact a local software reseller or IBM marketing representative.

Explanation: An attempt was made to initialize or migrate an information catalog without a valid license.

User response: Purchase the DB2 Warehouse Manager package and install the Information Catalog Manager Tools component which includes the Manage Information Catalog wizard.
ICM023N An SQL error occurred while dropping the DB2 Version 7 Information Catalog emulation views.

Explanation: An SQL error occurred while the initialization tool was dropping the views that provide emulation of the DB2 version 7 Information Catalog Manager tables.

User response: Check the Message Reference for more information on this SQL error.
Chapter 104. ICM10000 - ICM10499

ICM10001N The information catalog is already open.

Explanation: The open method of the ICMCatalog class was called while the information catalog had already been opened.

User response: Delete the redundant call to open the catalog.

ICM10002N Cannot commit a batch checkpoint while there is no active batch.

Explanation: The checkpoint operation commits a set of transactions which are pending changes to the catalog; the transactions are committed to the information catalog. There are no pending operations while there is no active batch.

User response: Commit a batch checkpoint only when there is an active batch. Use startBatch to make a batch active and endBatch to end it. Use checkpoint to commit intermediate points in the batch of changes.

ICM10003N The information catalog is not open.

Explanation: A catalog must be open before operations can be performed against it.

User response: Open the catalog before attempting this operation.

ICM10004N The access control list named accesslistname is not unique.

Explanation: The attempted retrieval of an access control list by name returned more than one instance. This is an internal catalog error that must be repaired because access control lists are required to have unique names.

User response: Repair the information catalog.

ICM10005N Batch mode is not active.

Explanation: The endBatch method was called when no batch was active.

User response: A batch must be started before it can end. Use the sequence startBatch, modify catalog, checkpoint, modify catalog, checkpoint, modify catalog, endBatch for valid batch operation.

ICM10006N Batch mode is already active.

Explanation: The startBatch method was called while no batch was active.

User response: A batch cannot start until a previous batch has ended. Use the sequence startBatch, modify catalog, checkpoint, modify catalog, checkpoint, modify catalog, endBatch for valid batch operation.

ICM10007N Failed to remove the last recorded checkpoint.

Explanation: The Information Catalog Manager API records checkpoints as they are committed during a batch. This is done so that the batch can be resumed from the last successful checkpoint if a failure occurs. On successful completion of the batch, the checkpoint record is removed. It is the removal of the checkpoint record that failed.

User response: Check the nested exception to determine the cause of the failure.

ICM10008N An I/O error occurred while creating the export temporary file filename.

Explanation: An error occurred while creating a temporary file that holds information during the export process.

User response: Check the export log file and correct the problem.

ICM10009N Export operation to file filename failed.

Explanation: An error occurred during an export operation.

User response: Check the export log file and correct the problem.

ICM10010N Import failed. Last completed checkpoint was checkpoint.

Explanation: An import operation was partially successful but failed before completion.

User response: Check the import log file and correct the problem.

ICM10011N Import failed. No checkpoints completed.

Explanation: An import operation failed before completing any checkpoints.

User response: Check the import log file and correct the problem.

ICM10012N The access control list is not the default access control list.
ICM10013N

**Explanation:** The access control List provided to setDefaultACL must be the access control list acquired from getDefaultACL.

**User response:** Check the documentation for ICMCatalog.setDefaultACL.

ICM10013N  Checkpoint object instance

*user=username, host=hostname, batch=batchname in internal object type typename* is not unique.

**Explanation:** Checkpoints are kept in an internal object type with the unique ID set to the user, host, batch properties. It should not be possible for ambiguous checkpoint object instances to exist.

**User response:** Contact a database administrator for catalog repair.

ICM10014N

**Unable to retrieve host name for checkpoint identification.**

**Explanation:** An unknown host exception was thrown while retrieving the host name.

**User response:** Contact a system administrator to examine the nested exception.

ICM10015N

**Unexpected property constraint exception occurred while working with object instance user=username, host=hostname, batch=batchname of the internal object type objecttype.**

**Explanation:** A property constraint exception was thrown while working with an instance of the internal object type used to record the delete history. There is an internal catalog problem because no property constraints are placed on the properties of this object type.

**User response:** Turn off the delete history feature and contact a database administrator for catalog repair.

ICM10016N

**Unexpected security exception while working with object instance user=username, host=hostname, batch=batchname of the internal object type typename.**

**Explanation:** Checkpoint object instances are owned by the current user at the time the batch completed a checkpoint. No security violation should occur.

**User response:** Determine the security violation and correct it.

ICM10017N

**Unexpected property constraint exception occurred while recording the delete history in the internal object type objecttype.**

**Explanation:** A property constraint exception was thrown while working with an instance of the internal object type used to record the delete history. There is an internal catalog problem because no property constraints are placed on the properties of this object type.

**User response:** Turn off the delete history feature and contact a database administrator for catalog repair.

ICM10100N

**Internal object type objecttype was not found. This catalog is not usable.**

**Explanation:** An internal object type used to support the Information Catalog Center application was not found in the IBM DB2 tools catalog. The catalog was not properly initialized for Information Catalog Center use or it was corrupted.

**User response:** Check that the metadata store containing the catalog has been properly initialized for the Information Catalog Center application.

ICM10101N

**Internal relationship type relationshiptype was not found. This catalog is not usable.**

**Explanation:** An internal relationship type used to support the Information Catalog Center application was not found in the IBM DB2 tools catalog. The catalog was not properly initialized for Information Catalog Center use or it has been corrupted.

**User response:** Check that the metadata store containing the catalog has been properly initialized for the Information Catalog Center application.

ICM10200N

**A collection named name already exists.**

**Explanation:** The collection name supplied was identical to the name of an already existing collection owned by the current user.

**User response:** Specify a different name for the new collection.

ICM10201N

**Unable to create a new collection with a default name.**

**Explanation:** The Information Catalog Manager API can create up to 1000 different default collection names. Failed to create the new collection because all 1000 default names already exist.

**User response:** Rename some collections to non-default names.

ICM10202N

**Collection name is specified for deletion but does not match any collection owned by the current user.**

**Explanation:** The collection name specified as the target of a delete operation was not found in the current user's collections.
User response: Specify an existing collection.

ICM10203N The relationship instance identifying members of collection name could not be found.
Explanation: The internal relationship type instance, which is used to identify members of a collection, was not associated with the collection. An internal error occurred and the collection is not usable.
User response: Use the Information Catalog Manager API to delete the collection.

ICM10204N Too many relationship instances exist on collection name.
Explanation: More than one relationship instance was found attached to an instance of the internal object type used to store collections. An internal error occurred in the information catalog and this collection is not usable.
User response: Use the Information Catalog Manager API to delete the collection.

ICM10205N Relationship instance on collection name is not valid.
Explanation: A relationship instance of an incorrect type was found attached to an instance of the internal object type used to store collections. This is an internal error in the information catalog and the collection is not usable.
User response: Use the Information Catalog Manager API to delete the collection.

ICM10300N Could not recognize the property search type specified.
Explanation: The property search type supplied to a DateSearchCriteria or TextSearchCriteria is not one of those defined.
User response: Specify one of the defined property search types.

ICM10301N No search date specified.
Explanation: Attempted to run a date search with no dates specified.
User response: Specify a start date, end date, or both.

ICM10302N Search has no associated criteria.
Explanation: Attempted to call the create method to write a search with no associated criteria to the catalog.
User response: Associate a criteria with the search before creating it.

ICM10303N Error occurred while loading search criteria for search name.
Explanation: An exception was caught while reading the search criteria for a search from the catalog.
User response: Check the nested exception to determine the problem.

ICM10304N Error occurred while storing search criteria for search name.
Explanation: An exception was caught while writing the search criteria for a search to the catalog.
User response: Check the nested exception to determine the problem.

ICM10305N Maximum returned object count cannot be negative. Count was: error-code.
Explanation: A SearchCriteria object was given a negative value for maximum objects returned. An error would occur if the SearchCriteria is run.
User response: Specify a maximum object count which is not negative.

ICM10306N Object type search collection contains foreign object.
Explanation: Only ICMObjectTypes can be specified to identify the types of ICMObjectInstances to search.
User response: Check that the collection of object types only contains objects of type ICMObjectType.

ICM10307N The search name name is in use.
Explanation: A user cannot have two searches with the same name.
User response: Specify a search name which is not in use.

ICM10308N Unable to find a new default search name.
Explanation: The Information Catalog Manager API can create up to 1000 different default search names when creating a new search. Failed to create a new default search name because all default names are in use.
User response: Rename some searches that have default names.

ICM10309N No search strings specified.
Explanation: Attempted to perform a text search with no text strings specified.
User response: Specify search strings to be matched.
ICM10310N  The search name specified for deletion does not match existing searches owned by the current user.

Explanation:  The search name specified as the target of a delete was not found in the current user's searches.

User response:  Specify an existing search.

ICM10311N  Search values must be text strings.

Explanation:  Attempted to set search values for a TextSearchCriteria which were not text strings.

User response:  Specify search text strings to be matched.

ICM10400N  Message Text: Error occurred while retrieving property data for user/group from the internal object type objecttype.

Explanation:  An exception was caught while retrieving the stored property information from an object instance of the internal object type.

User response:  Contact a database administrator to check the nested exception.

ICM10401N  Error occurred while storing property data for user/group to the internal object type objecttype.

Explanation:  An exception was caught while storing property information to an object instance of the internal object type.

User response:  Contact a database administrator to check the nested exception.

ICM10402N  Unable to retrieve host name.

Explanation:  An unknown host exception was thrown while retrieving the host name.

User response:  Consult a system administrator to check the nested exception.
Chapter 105. ICM10500 - ICM10999

ICM10500N Error occurred while starting program with command string command.

Explanation: An exception was thrown while attempting to invoke a program on an object instance.

User response: Check the nested exception and correct the program or path object.

ICM10501N Internal error occurred while attempting to write a BlobProperty to a file.

Explanation: The BlobProperty has been created in the database but the associated object instance has not.

User response: Contact your IBM service representative.

ICM10502N Property propertyname is an incorrect type.

Explanation: A property name passed to writeBlobToStream or writeClobToWriter was not a correct Blob or Clob property.

User response: Check that the property is a Blob or Clob as needed by the method being called.

ICM10503N Unable to retrieve the value from the propertyname property of an instance of object type objecttype.

Explanation: An exception was caught while retrieving a value from the property of the object type.

User response: Contact a database administrator to check the nested exception.

ICM10504N Unmatched parameter marker in a parameterized string. String = paramstring.

Explanation: A parameter marker open character was found without a corresponding parameter marker close character while formatting a parameterized string.

User response: Check that the parameterized string is in a valid format.

ICM10505N Error occurred while writing data from BlobProperty or ClobProperty propertyname to file filename.

Explanation: A parameter of the type BlobProperty or ClobProperty was encountered as one of the parameters while formatting a parameterized string. An exception was caught while writing the contents of the property to a file.

User response: Check the nested exception.

ICM10506N An internal error occurred while attempting to write property propertyname to a file.

Explanation: Attempted to write a property to a file while formatting a parameterized string. The property was not a BlobProperty or a ClobProperty, which are the only property types allowed to be written to a file.

User response: Contact your IBM service representative.

ICM10600N Icon data size datasize is larger than maxsize bytes.

Explanation: The icon associated with an object type cannot be larger than the indicated maximum size.

User response: Specify a smaller icon file. Contact a database administrator if the icon data has been corrupted in the catalog.

ICM10601N Error occurred while retrieving icon data from catalog.

Explanation: An SQLException was caught while reading the icon data from the object type.

User response: Check the nested exception.

ICM10700N The name specified (typename) matches more than one object type.

Explanation: The name used to retrieve an object type matched more than one object type. The inclusion of a wildcard character in the name might cause this error.

User response: Supply a name which uniquely identifies an object type.

ICM10701N The object type typename does not exist.

Explanation: The object type name used with an Information Catalog Manager API method did not match existing object types.

User response: Use the name of an existing object type.

ICM10702N The required relationship category categoryname can not be found. This catalog is not usable.

Explanation: One of the required relationship
categories in an information catalog could not be found. This is a fatal error.

User response: Contact a database administrator.

**Explanation:**
The IBM DB2 tools catalog supports multiple application programs. The object types seen by information catalog users are a subset of all the object types in a tools catalog. An exception occurred while passing an object type to the Information Catalog Manager API which is not one of the information catalog user object types.

User response: Only use the Information Catalog Manager API with information catalog user object types.

**ICM10704N** An operation to store the default property visibility flags for the object type typename failed.

Explanation: An exception was caught while storing the information that defines default property visibility for this object type.

User response: Contact a database administrator to check the nested exception.

**ICM10705N** An operation to load the default property visibility flags for the object type typename failed.

Explanation: An exception was caught while loading the information that defines default property visibility for this object type.

User response: Contact a database administrator to check the nested exception.

**ICM10706N** The object type typename is not an information catalog user object type.

Explanation: The IBM DB2 tools catalog supports multiple application programs. The object types seen by information catalog users are a subset of all the object types in a tools catalog. An exception occurred because an object instance of a type not in the information catalog user object type set was linked by a relationship to an instance of an object type which is in the information catalog user object type set.

User response: Use the Information Catalog Manager API with information catalog user object types.

**ICM10800N** The required relationship constraint constraintname may not be removed.

Explanation: Relationship constraints placed on relationship types enforce required behaviors within the information catalog. The constraints may not be removed.

User response: Do not attempt to remove the required relationship constraint.

**ICM10801N** Error occurred while enforcing required constraint constraintname on relationship type relationshiptype.

Explanation: An exception was thrown while attempting to instantiate a required constraint object to apply to a relationship type.

User response: Contact a database administrator to check the nested exception.
Part 18. LIC Messages
Chapter 106. LIC1000 - LIC1499

LIC1052E You must be root to execute this program.

Explanation: This program can only be run under the root user ID. Special privileges are required to execute this program.

User response: Login as root and issue the command again.

LIC1304E Unexpected error.

Explanation: The tool encountered an unexpected system error.

User response: Contact your DB2 service representative.

LIC1305E The profile registry was not found.

Explanation: The target machine does not have a profile registry setup.

User response: Create the registry on the target machine by installing DB2.

LIC1309E System error.

Explanation: The tool encountered an operating system error.

User response: A system error was encountered during registry access. Ensure that there is enough space on the file system where the registry is located, and that there is a valid LAN connection if the registry is remote.

LIC1400N The syntax of the db2licm command is incorrect. Run the db2licm -? command for more information.

Explanation: The db2licm tool performs basic license functions. It adds, removes, lists, and modifies licenses installed on the local system. Execute db2licm tool with -l parameter to find out the product identifier for your product:

db2licm [-a filename]
    [-e product-identifier HARD | SOFT]
    [-p product-identifier]
    [-r product-identifier]
    [-u product-identifier num-users]
    [-c product-identifier num-connectors]
    [-l]
    [-v]
    [-?]  

The command options are:

- **-a** Adds a license for a product. Specify a file name containing valid license information. This can be obtained from your licensed product CD or contact your IBM representative or authorized dealer.

- **-e** Updates the enforcement policy on the system. Valid values are: HARD and SOFT. HARD specifies that unlicensed requests will not be allowed. SOFT specifies that unlicensed requests will be logged but not restricted.

- **-p** Updates the license policy type to use on the system. The keywords CONCURRENT, REGISTERED, or CONCURRENT REGISTERED can be specified. Specify OFF to turn off all policies.

- **-r** Removes the license for a product. After the license is removed, the product functions in "Try & Buy" mode. To get the password for a specific product, invoke the command with the -l option.

- **-u** Updates the number of user entitlements that have been purchased. Specify the password of the product for which the entitlements were purchased and the number of users.

- **-c** Updates the number of connector entitlements that have been purchased. Specify the password of the product for which the entitlements were purchased and the number of connectors.

- **-l** Lists all the products with available license information, including the product identifier.

- **-v** Displays version information.

- **-?** Displays help information. When this option is specified, all other options are ignored, and only the help information is displayed.

User response: Enter the command again using the valid parameters.
**LIC1401I** • **LIC1407N**

**LIC1401I**  Command line DB2 License Manager.  

**Explanation:** The db2licm tool performs basic license functions. It adds, removes, lists, and modifies licenses registered on the local system. Execute db2licm tool with -l parameter to find out the product identifier for your product:

```
$ db2licm [-a filename]
  [-e product-identifier HARD | SOFT]
  [-p product-identifier
   CONCURRENT | OFF]
  [-r product-identifier]
  [-u product-identifier num-users]
  [-c product-identifier num-connectors]
  [-g filename]
  [-x]
  [-l][show detail]
  [-v]
  [-?]  
```

The command options are:

- **-a**
  Adds a license for a product. Specify a file name containing valid license information. This can be obtained from your licensed product CD or contact your IBM representative or authorized dealer.

- **-e**
  Updates the enforcement policy on the system. Valid values are: HARD and SOFT. HARD specifies that unlicensed requests will not be allowed. SOFT specifies that unlicensed requests will be logged but not restricted.

- **-p**
  Updates the license policy type to use on the system. The keyword CONCURRENT can be specified for concurrent user policy. Specify OFF to turn off all policies.

- **-r**
  Removes the license for a product. Specify the product identifier.

- **-u**
  Updates the number of user entitlements that have been purchased. Specify the product identifier and the number of users.

- **-c**
  Updates the number of connector entitlements that have been purchased. Specify the product identifier and the number of connector entitlements.

- **-g**
  Generates compliance report. Specify file name where output is to be stored.

- **-x**
  Resets license compliance information for the purposes of license compliance report.

- **-l**
  Lists all the products with available license information, including the product identifier. Specify [show detail] to view detailed information about licensed features (if any).

- **-v**
  Displays version information.

- **-?**
  Displays help information. When this option is specified, all other options are ignored, and only the help information is displayed.

**User response:**

```
LIC1402I  License added successfully.
```

```
LIC1403I  License removed successfully.
```

```
LIC1404N  Product identifier not found.
```

**Explanation:** The given identifier is either invalid, or a license for this product was not found in the nodelock file.

**User response:** Issue this command with -l option to check that the identifier entered is the correct product identifier for the product that you want to perform this action on. If you are using nodelock passwords, check that the license key for this product is installed in the nodelock file.

```
LIC1405I  License policy type updated successfully.
```

```
LIC1406N  Invalid license policy type.
```

**Explanation:** The license policy type that was entered was not valid for the product specified.

**User response:** Please enter a valid license policy. Options are:

- CONCURRENT
- OFF

```
LIC1407N  You are trying to register an invalid license certificate file, license-certificate-file-name.
```

**Explanation:** Either the license file is not from the current version, or the license file is corrupted. You can check the current version by running db2licm -v.

**User response:** Obtain the valid license file for the current version from the Activation CD, and rerun the
db2licm command. For example, db2licm -a license-certificate-file-name

LIC1408N The file file-name could not be opened. Enter the name of a file that exists and can be opened and try the command again.

Explanation: The file is not found or access to the file is denied.

User response: Enter the name of a file that exists and can be opened and try the command again.

LIC1409N Invalid enforcement policy type.

Explanation: The enforcement policy type specified is not valid for this product.

User response: Please enter a valid enforcement policy type that is supported by the specified product.

LIC1410I Concurrent entitlements updated successfully.

LIC1411I Enforcement policy type updated successfully.

LIC1412W A hard stop enforcement policy has been set. This enforcement policy stops unlicensed requests.

Explanation: You issued the db2licm command with the -e parameter, to update the enforcement policy, and specified the value HARD. (For example, db2licm -e db2ese HARD.) The value HARD specifies that unlicensed requests will not be allowed.

User response: As a mechanism for you to keep track of, and differentiate, the DB2 database products and features installed on your system, it is recommended that you register the license key for each DB2 database product and feature.

If you want unlicensed requests to be logged but not restricted, change the enforcement policy to SOFT. For example, db2licm -e db2ese SOFT

LIC1413W A soft stop enforcement policy has been set. This enforcement policy specifies that unlicensed requests will be logged but not restricted.

Explanation: You issued the db2licm command with the -e parameter, to update the enforcement policy, and specified the value SOFT. (For example, db2licm -e db2ese SOFT.) The value SOFT specifies that unlicensed requests will be logged but not restricted.

User response: If you want unlicensed requests to be stopped, you must change the enforcement policy to HARD. For example, db2licm -e db2ese HARD.

LIC1414I The number of licensed processors on this system has been updated successfully.

LIC1415I The number of concurrent entitlements was not updated. The return code is return-code.

User response: Please ensure the concurrent policy is enabled for this product.

LIC1416N The license could not be added to the nodelock file automatically. The return code is return-code.

User response: Please ensure the license certificate is readable. You may also enter the license into the nodelock file manually. Please see the license file for instructions.

LIC1417N The license specified could not be removed from the nodelock file. The return code is return-code. Check that the license for this product exists in the nodelock file.

User response: Ensure that the license for this product exists in the nodelock file.

LIC1418I The number of licensed processors on this system has been updated successfully.

LIC1419N There was an error updating the number of licensed processors. The return code is return-code.

LIC1420N This product does not support this type of license policy.

Explanation: The license policy specified does not apply to this product or is not supported.

User response: Enter a valid license policy or select a product that supports this policy.

LIC1421N This product specified is not installed on this system.

Explanation: You can not configure a license policy for a product until the product is installed.

User response: Install the product before running this command or specify the correct product identifier. To list the products install on the system issue db2licm -l command.

LIC1422N The number of concurrent entitlements was not updated. The return code is return-code.

User response: Please ensure the concurrent policy is enabled for this product.

LIC1423N This option requires the creation of an instance.

Explanation: Features that are required to perform this action are only accessible once an instance has been created.
**User response:** Please create an instance and issue this command again.

**LIC1424N** An unexpected error occurred while accessing processor information.

**Explanation:** The return code is `return-code`.

**User response:** None.

**LIC1426I** This product is now licensed for use as outlined in your License Agreement. USE OF THE PRODUCT CONSTITUTES ACCEPTANCE OF THE TERMS OF THE IBM LICENSE AGREEMENT, LOCATED IN THE FOLLOWING DIRECTORY: `dir-name`

**LIC1427I** This product is now licensed for use as outlined in your License Agreement. USE OF THE PRODUCT CONSTITUTES ACCEPTANCE OF THE TERMS OF THE IBM LICENSE AGREEMENT, LOCATED IN THE FOLLOWING DIRECTORY: `dir-name`

**LIC1428N** There was an error updating the number of licensed processors.

**Explanation:** The number of licensed processors entered exceeds the number of maximum licensed processors allowed for this product.

**User response:** Please enter number of licensed processors that does not exceed the defined maximum. If the number of processors on your system exceeds the maximum number of processors allowed for this product, please contact your IBM representative or authorized dealer.

**LIC1429N** This product does not support this combination of license policies.

**User response:** Please enter a valid combination of license policies. For example, you can specify "CONCURRENT REGISTERED" as a valid combination.

**LIC1430N** The license could not be added to the nodelock file because the license has used the maximum number of evaluation licenses. The maximum number of evaluation licenses is `lic-number`. Run this command again with a permanent license key.

**Explanation:** This product has used the maximum number of evaluation licenses.

**User response:** Run this command again with a permanent license key.

**LIC1432N** The number of license entitlements was not updated.

**Explanation:** The specified number of license entitlements is not in the valid range.

**User response:** Run this command again using a valid number of license entitlements.

**LIC1434N** DB2 has added the license entry to the nodelock file, however, this license entry is not active.

**Explanation:** DB2 failed to activate this license entry, therefore DB2 will run with the previous license configuration until this license is activated.

**User response:** Try the command again and if it continues to fail, edit the nodelock file manually or contact IBM support.

If you edit the nodelock file manually, move the new license entry to the beginning of the license entries list. The nodelock file could be found in the following locations:

**Windows XP and Windows 2003**

`X:\Documents and Settings\All Users\Application Data\IBM\DB2\<DB2 copy name>\license`

**Windows Vista**

`X:\ProgramData\IBM\DB2\<DB2 copy name>\license`

Where 'X:' is the system drive.
On all other platforms the nodelock file is located in the installation path of this product in the license directory.

Refer to the DB2 Information Center for more information on licensing.

**LIC1435E** An I/O error occurred when accessing the nodelock file. The license could not be added.

Explanation: An error occurred when creating or accessing nodelock file. The file access settings do not allow this action.

User response: Ensure that the nodelock file and the directory where nodelock file is located allow read and write access to this program.

The nodelock file could be found in the following locations:

**Windows XP and Windows 2003**
- X:\Documents and Settings\All Users\Application Data\IBM\DB2\<DB2 copy name>\license.

**Windows Vista, Windows 7, Windows 2008 or later**
- X:\ProgramData\IBM\DB2\<DB2 copy name>\license

Where 'X:' is the system drive.

On all other platforms the nodelock file is located in the installation path of this product in the license directory.

**LIC1436I** Duplicate license was found in nodelock file.

Explanation: DB2 has determined that this license has already been registered in the nodelock file for this installation of DB2.

User response: No further action is necessary.

**LIC1437I** License entitlements updated successfully.

**LIC1438E** An I/O error occurred when accessing the nodelock file. The license could not be removed.

Explanation: An error occurred when creating or accessing nodelock file. The file access settings do not allow this action.

User response: Ensure that the nodelock file and the directory where nodelock file is located allow read and write access to this program.
LIC1445E  An error occurred when generating the compliance report.

Explanation: An unexpected error occurred when generating the compliance report. The compliance report could not be created.

User response:
- Ensure at least one valid DB2 instance is created.
- Ensure the DB2 global registry is not corrupted.
- Ensure the DB2 Administration Server was started successfully.

LIC1446I The license certificate license-certificate-file-name for SA MP was successfully installed.

Explanation: The IBM Tivoli System Automation for Multiplatforms (SA MP) requires a valid license certificate to work with the DB2 High Availability (HA) feature. This license certificate was successfully installed or updated.

User response: No response is required.

LIC1447N The license certificate license-certificate-file-name for SA MP was not successfully installed.

Explanation: The IBM Tivoli System Automation for Multiplatforms (SA MP) requires a valid license certificate to work with the DB2 High Availability (HA) feature. This license certificate was not successfully installed or updated.

If you used the DB2 installer to install or update this license certificate, you can find more detailed information about why the install or update failed in the DB2 install log file.

User response: To manually install or update this license certificate for the SA MP Base Component, issue the command:

- `samlicm -i license-certificate-file-name`

For more information about the `samlicm` command, see the SA MP Base Component documentation.

LIC1448I This license was automatically applied at install time in order to enable you to start working with DB2.

Explanation: To be fully licensed, this product requires a license appropriate to your purchased license policy.

User response: A license can be downloaded from Passport Advantage or may be found on a separate CD in your product package. Both the download and the CD are titled “Activation CD”.

For more information on licensing your product search the Information Center using terms such as “licensing”.

LIC1449N The license was not installed due to a platform restriction.

Explanation: This DB2 product is only supported in trial mode, also known as “Try and Buy” mode, on this platform.

User response: Continue to use this product in trial mode, or install one which is fully supported on this platform.

LIC1450I The product licensed by the certificate file-name was not found in the DB2 copy.

Explanation: Additional licenses may be added to a DB2 copy prior to additional product installation. The license has been successfully added but it will not be shown until the corresponding product is installed.

User response: No action is necessary. If you subsequently install the product covered by this certificate, you do not need to re-register the license.
Part 19. MQL Messages
Chapter 107. MQL0000 - MQL0499

MQL0001E MQListener was invoked with no major function on the command line.

Explanation: The MQListener command line failed to specify a major function, such as help, run, add, remove, or show.

User response: Consult MQListener documentation and re-run MQListener with the desired function. For more information, run 
db2mqlsn help

MQL0002E MQListener was invoked with an unknown command line parameter parameter name.

Explanation: The MQListener command line contained an unknown parameter parameter name.

User response: Consult MQListener documentation and re-run MQListener with the desired parameters. For more information, run 
db2mqlsn help

MQL0003E MQListener was invoked without the required command line parameter parameter name.

Explanation: The MQListener command line was missing the required parameter parameter name.

User response: Consult MQListener documentation and re-run MQListener with the required parameter. For more information, run 
db2mqlsn help

MQL0004E MQListener was invoked with an illegal value for the parameter name command line parameter: parameter value.

Explanation: The MQListener command line contained an illegal value for the parameter name parameter. The illegal value was parameter value.

User response: Consult MQListener documentation and re-run MQListener with the desired parameters. For more information, run 
db2mqlsn help

MQL0010E MQListener encountered a database error accessing database database name while executing operation operation name. The resulting sqlstate was sqlstate value (sqlcode sqlcode value).

Explanation: MQListener encountered a DB2 database error accessing database database name while executing operation operation name. The resulting sqlstate was sqlstate value (sqlcode sqlcode value).

User response: Consult MQListener documentation and insure that MQListener is properly installed in the specified database and access to MQListener packages and configuration tables has been granted to the user specified in -configUser or the user running MQListener.

MQL0011E MQListener failed to connect to database database name as user user name: sqlstate = sqlstate value (sqlcode = sqlcode value).

Explanation: MQListener encountered a DB2 database error while attempting to connect to database database name as user user name. The resulting sqlstate was sqlstate value (sqlcode sqlcode value).

User response: Insure that database name is running and accessible to user name using the password configured in MQListener. If neccessary, re-configure MQListener using MQListener "remove" and "add" functions.

MQL0020E MQListener encountered an MQ error executing operation operation name on object object name in queue manager queue manager: reason code = reason code.

Explanation: MQListener encountered an MQ error executing operation operation name on object object name in queue manager queue manager. The resulting reason code was reason code value.

User response: Insure that MQ is properly installed and configured, and accessible to the user running MQListener. Consult the MQ documentation for more information, particularly the Application Programming Reference (Document Number SC34-6062-00) for more information about the reason code.

MQL0021E MQListener failed to connect to MQ queue manager queue manager: reason code = reason code.

Explanation: MQListener encountered an MQ error while attempting to connect to MQ queue manager queue manager. The resulting reason code was reason code.

User response: Insure that MQ is properly installed and configured, and accessible to the user running MQListener. Consult the MQ documentation for more information, particularly the Application Programming Reference.
**MQL0022W**  MQL0022W

MQListener failed to disconnect from MQ queue manager *queue manager*.

**Explanation:** MQListener encountered an MQ error while attempting to disconnect from MQ queue manager *queue manager*. The resulting reason code was *reason code*.

**User response:** Insure that MQ is properly installed and running. Consult the MQ documentation for more information, particularly regarding the exact meaning of the reason code.

**MQL0030E**  MQL0030E

MQListener encountered a DB2 database error attempting to add a new task to the configuration name *configuration name*.

**Explanation:** MQListener encountered a DB2 database error while attempting to add a new task to the configuration name *configuration name*. The input queue specified in the task was *input queue*, and the specified queue manager was *queue manager*. The resulting sqlstate was *sqlstate value* (*sqlcode = sqlcode value*).

**User response:** Consult MQListener documentation and insure that MQListener is properly installed in the specified configuration database and access to MQListener packages and configuration tables has been granted to the user specified in -configUser or the user running MQListener.

**MQL0040E**  MQL0040E

MQListener encountered a DB2 database error retrieving configuration name *configuration name* from database configuration database name *database configuration database name*. The resulting sqlstate was *sqlstate value* (*sqlcode = sqlcode value*).

**Explanation:** MQListener encountered a DB2 database error while retrieving configuration name *configuration name* from database configuration database name *database configuration database name*. The resulting sqlstate was *sqlstate value* (*sqlcode = sqlcode value*).

**User response:** Consult MQListener documentation and insure that MQListener is properly installed in the specified configuration database and access to MQListener packages and configuration tables has been granted to the user specified in -configUser or the user running MQListener.

**MQL0070E**  MQL0070E

MQListener has encountered a DB2 database error preparing to run the stored procedure *schema.*name.*procedure name* in database database name *as user* *user name*, The resulting sqlstate was *sqlstate value* (*sqlcode = sqlcode value*).

**Explanation:** MQListener has encountered a DB2 database error preparing to run the stored procedure *schema.*name.*procedure name* in database database name *as user* *user name*. The resulting sqlstate was *sqlstate value* (*sqlcode = sqlcode value*).

**User response:** Insure that MQListener configuration is unique among the MQListener configuration tasks in the database. Use MQListener "show" command to inspect the configuration.
null
User response: None. This is the normal notification on receiving a restart message.
Part 20. SAT Messages

This section contains the Satellite (SAT) messages. The messages are listed in numeric sequence.
Chapter 108. SAT1000 - SAT1499

SAT1000I  The first application version for this group has been defaulted to match the value used for the Typical satellite install.

Explanation: If you install a satellite using the Typical method, the satellite's application version will be set to a predefined value. This predefined application version is the same as the default value for the first application version that is created for a group.

User response: If you did not install the satellites of this group using the Typical method, or you changed the application version for one or more satellites after installation, ensure that the identifier you supply to create a new application version is consistent with the satellite's application version.

SAT1001I  Mandatory information is missing from one of the notebook pages. The notebook will return to the page that is missing information.

Explanation: All mandatory fields must be filled in for the action to complete.

User response: Fill in the required information and try the action again.

SAT1002I  A test connection or attachment to the selected target was successful using the specified authentication credentials.

Explanation: An attempt was made to connect to a target. The connection or attachment was established successfully using the specified authentication credentials.

User response: No action is required.
Chapter 109. SAT2000 - SAT2499

SAT2000W Changes have not been saved. Save now?

Explanation: You are exiting from a window or notebook without saving your changes.

User response: To save your changes, click Yes. Otherwise, click No.

SAT2001W An ATTACH or CONNECT statement was found in the script.

Explanation: The script contents appear to contain either a CONNECT or an ATTACH statement. On a satellite, the required instance-level attach or database-level connect is automatically established before a DB2 instance or DB2 database script is executed. Consequently, it is not necessary to include ATTACH or CONNECT statements in DB2 instance or database scripts, unless the script specifies more than one execution target.

User response: If the script does not specify more than one target, remove the CONNECT or ATTACH statement from the script.

SAT2002W Script contents may not be consistent with the script type.

Explanation: Either the script contents have been modified in a way that causes an inconsistency with the script type, or the script type has been modified in a way that causes an inconsistency with the script contents.

User response: Ensure that the script type and the script contents are compatible.

SAT2003W Implicit table space was created.

Explanation: Promotion created at least one implicit table space.

User response: Change the table spaces in the script if the implicit table spaces that are created are not suitable for your business requirements.

SAT2014W Are you sure that you want to promote the satellite satellite?

Explanation: Promoting a satellite causes the satellite to start executing the group’s batches. Only promote a satellite when it has successfully executed the fix batch and is ready to execute group batches.

User response: Click Yes to promote the satellite back to executing group batches. Otherwise, click No.

SAT2015W Are you sure that you want to fix the satellite satellite?

Explanation: Setting a satellite to fix mode will prevent the satellite from executing its group batches. The satellite will only be able to execute a fix batch until it is promoted back to executing the group batches. Only set a satellite to fix mode when the satellite requires servicing.

User response: Click Yes to set the satellite to fix mode so it can execute a fix batch. Otherwise, click No.

SAT2016W An object with the name object already exists in the database database. Are you sure that you want to overwrite it?

Explanation: Overwriting an object will cause all other objects that reference the object to be affected.

User response: Click Yes to overwrite the object. Otherwise, click No.

SAT2017W An object with the name object already exists in the database database and is in use by another object. Are you sure that you want to change the definition of the object?

Explanation: Changing the definition of an object will cause all other objects that reference that object to be affected.

User response: Click Yes to change the definition of the object. Otherwise, click No.

SAT2018W Are you sure that you want to change the definition of object object?

Explanation: Changing the definition of an object will cause all other objects that reference that object to be affected.

User response: Click Yes to change the definition of the object. Otherwise, click No.

SAT2019W An object with the name object already exists in the database database. Would you like to rename object before it is created in database?

Explanation: While creating object in database, another object with the same name was found to already exist. Objects must have a unique name.

User response: Click Yes to save the object under a different name. Otherwise, click No. The object will not be created.
SAT2020W  At least one of the selected satellites is currently online. No action is taken on satellites that are online.

Explanation: When a satellite is online and synchronizing, it cannot be altered.

User response: Determine which satellites are currently online. Wait until these satellites are offline, and try the request again.

SAT2021W  A test connection or attachment to the selected target was not successful using the specified authentication credentials.

Explanation: An attempt was made to connect or attach to a target. The connection could not be established because of an authentication error.

User response: Verify that the authentication credentials are correct for the target, and try the request again.

SAT2022W  You will be able to make modifications to this satellite when it is a test satellite. Care should be taken to ensure the satellite’s state remains consistent.

Explanation: Setting a satellite as a test satellite means that it will execute test batches. A test batch may contain batch steps that produce uncertain outcomes, and may put the satellite into an inconsistent state. A satellite should only be set as a test satellite when it is acceptable to subject it to these risks.

User response: Click OK to set the satellite as a test satellite. Otherwise, click Cancel.

SAT2023W  Are you sure that you want to change this test satellite to a production satellite? The administrative function available for this satellite will be severely restricted.

Explanation: A test satellite is used to try out configuration changes before these changes are made available to the production satellites. Consequently, a test satellite may become inconsistent when configuration changes do not succeed. To repair the test satellite, return it to a consistent state so that the configuration changes can be iteratively tested. More administrative actions can be performed against a test satellite. If the satellite is changed to a production satellite, it can no longer be used for test purposes. The administrative function available for this satellite will necessarily be severely restricted.

User response: Click OK to set the satellite as a production satellite. Otherwise, click Cancel.

SAT2024W  Synchronization session is in progress. Are you sure that you want to terminate it?

Explanation: A synchronization session was in progress when the terminate action was issued.

User response: If you continue with the termination, the synchronization session will be stopped before it completes. You should cancel the termination, and allow the synchronization session to complete.

SAT2025W  If you use anything other than a noncomplete consistent-change-table in a consolidation scenario, the target table is refreshed when satellites synchronize.

Explanation: In a consolidation replication scenario, a noncomplete consistent-change-data-table does not result in a full refresh of the target table when a satellite synchronizes. Any other type of table (for example, a user copy or a point-in-time target table) results in a full refresh of the target table when a satellite synchronizes. If, when defining your replication scenario, you specified that the data capture is full refresh, the target table will be fully refreshed each time that a satellite synchronizes. If you did not specify that the data capture is full refresh, the target table is only fully refreshed the first time that the Apply program is invoked on the satellite.

User response: If you want the target table to be refreshed when a satellite synchronizes, no action is required. If you want to change the type of the target table, you must remove the effects of the generalization of the replication subscriptions from the DB2 control server, and return to the Control Center to modify the replication scenario. Then, generalize the replication subscriptions again.

SAT2026W  The satellite should be synchronized once before the user changes user data. User data that is changed before the initial synchronization of the satellite cannot be replicated.

Explanation: When the satellite synchronizes, the Capture and Apply programs are invoked on the satellite. Depending on how you defined the replication scenario, changes that are made to the user data in the satellite database before the first synchronization session either cannot be replicated to the corporate sources, or will be overwritten at the satellite:

- If your replication scenario is either consolidation, or update anywhere with the replication direction defined from the satellite to the corporate source, changes that are made to the user data before the first synchronization session cannot be replicated from the satellite to the corporate source. When the Capture program is invoked, it cannot capture these changes.
• If your replication scenario is either distribution, or update anywhere with the replication direction defined from the corporate source to the satellite, changes that are made to the user data before the first synchronization session will be overwritten when a full refresh occurs at the satellite.

**User response:** Instruct all satellite users to synchronize before they change data on the satellite.
Chapter 110. SAT3000 - SAT3499

SAT3000N The name name already exists.
Explanation: The name of the object you are attempting to create, name, already exists.
User response: Specify a unique name.

SAT3001N The target name of a copy, targetname, already exists in the database cdb.
Explanation: The name provided for the copy, targetname, is not unique in the target satellite control database cdb.
User response: Specify a unique name.

SAT3002N Application version application-version-name already exists for the group group-name.
Explanation: The name supplied for this application version is already being used for this group.
User response: Specify a name for the application version that is not already in use by the group group name.

SAT3003N No application versions exist for this group.
Explanation: The requested action against the group requires at least one application version.
User response: Create an application version for the group.

SAT3004N The object name does not exist.
Explanation: The specified object, name, does not exist. It may have been removed after the view containing the object was filled.
User response: Refresh the view in which the object appears.

SAT3005N The object name cannot be deleted because it is currently referred to by another object.
Explanation: The object name cannot be deleted because another object references it. Consistency cannot be maintained if name is deleted.
User response: Delete all objects that are dependent on the object before deleting this object.

SAT3006N Group group-name cannot be deleted because it has at least one enabled satellite.
Explanation: Before a group can be deleted, all of its satellites be disabled so that they can be deleted along with the group. At least one satellite in the group was found to be enabled.
User response: Disable all the satellites in this group.

SAT3007N Group group-name cannot be deleted because it has at least one application version that has either a test-level or a production-level batch.
Explanation: Production-level and test-level batches are considered to be active levels that are used by satellites. Consequently, they cannot be deleted. Therefore, the application version, and hence the group, to which they belong cannot be deleted.
User response: Obsolete all the production-level batches and remove all the test-level batches for this group. Then try the request again.

SAT3008N Application version application-version-name cannot be deleted because it has either a test-level or a production-level batch.
Explanation: Production-level and test-level batches are considered to be active levels that are used by satellites. Consequently, they cannot be deleted. Therefore, the application version to which they belong cannot be deleted.
User response: Obsolete the production-level batches and remove the test-level batches for this application version. Then try the request again.

SAT3009N No generalized replication subscription sets exist for the group group-name.
Explanation: No generalized replication subscription sets exist for the group group-name. The specified action requires at least one generalized replication subscription to exist.
User response: Define one or more generalized replication subscription sets for this group.

SAT3010N No application versions exist for the group group-name.
Explanation: No application versions exist for the group group-name. The specified action requires at least
one application version to exist.

**User response:** Define an application version for this group.

---

**SAT3011N**

No default replication subscription sets exist for application version `application-version-name` in group `group-name`.

**Explanation:** Default replication subscription sets for application version `application-version-name`, in group `group-name`, are generated by the generalize action. Such subscription sets are necessary before it is possible to customize the generalized replication subscription.

**User response:** Ensure the generalized action completed successfully, and try the request again.

---

**SAT3012N**

A default replication control server for application version `application-version-name`, in group `group-name`, is generated by the generalize replication subscription action. Such a control server is required before the generalized replication subscription can be customized.

**Explanation:** A default replication control server for application version `application-version-name` in group `group-name` does not exist.

**User response:** Ensure that the generalizing of the replication subscription completed successfully. Then try the request again.

---

**SAT3013N**

The confirmation password does not match the specified password.

**Explanation:** The confirmation password must exactly match the specified password. Passwords are case sensitive.

**User response:** Type the confirmation password again. Ensure that all characters typed are in the same case as the original password.

---

**SAT3014N**

At least one of the specified batch steps does not have a target alias, a success code set, or both.

**Explanation:** When a script is imported or added as a new batch step, a target alias and a success code set must be added for the new batch step is not provided.

**User response:** Identify which batch steps are missing a target alias or a success code set, and add the missing information.

---

**SAT3015N**

A target alias has not been selected. You must select a target alias before you can specify the authentication credentials.

**Explanation:** A target alias must be specified before an authentication can be associated with it.

**User response:** Specify a target alias. Then try the request again.

---

**SAT3016N**

An application version has not been set for this satellite. This page will be disabled until the satellite reports its application version.

**Explanation:** A satellite executes the batches of an application version. This satellite has not yet reported its application version. Therefore, batch steps cannot be specified for it.

**User response:** Assign the satellite an application version on the satellite itself. You cannot perform this action from the Satellite Administration Center.

---

**SAT3017N**

The action cannot be performed. An application version has not been set.

**Explanation:** A satellite executes the batches of an application version. This satellite has not yet reported its application version. Therefore, the specified action cannot be performed.

**User response:** Assign the satellite an application version on the satellite itself. You cannot perform this action from the Satellite Administration Center.

---

**SAT3018N**

The type of the execution target specified is not correct for the type of the script.

**Explanation:** A target alias has been selected that is not correct. The script is designed to execute against a different type of target.

**User response:** Choose a target alias that is of the same type as the selected script. Then try the request again.

---

**SAT3019N**

The specified success code ranges are in conflict.

**Explanation:** A success code set cannot contain a greater than (>) relation that specifies a range of numbers that overlap the range of numbers that is specified by a less than (<) relation. For example, the following two relations are not allowed in the same success code set: > 10, < 11.

**User response:** Either remove or correct those success relations from the success code set that cause the overlap in ranges. To specify a finite range of numbers between two numbers, a and b, an equals (=) relation must be specified for each number in the range.
example, to specify a finite range of numbers between 5 and 10 as success codes, the following equals relations are required: \(=5,=6,=7,=8,=9\) and \(=10\).

**SAT3022N**  Promotion failed with the following error: SQLCODE=sqlcode, SQLSTATE=sqlstate, tokens: token1, token2, token3. The error was detected at location location.

**Explanation:** Promotion failed in an unexpected way.

**User response:** Contact the help desk or your system administrator.

**SAT3023N**  A system or internal error occurred.

**Explanation:** The possible errors include a system error returned by the operating system, insufficient resources, or an incorrect configuration.

**User response:** Verify your replication configuration, or contact your system administrator or IBM Service.

**SAT3024N**  A replication server is at a level that is not supported.

**Explanation:** The product level of a replication server is not supported.

**User response:** Upgrade to a supported level.

**SAT3025N**  An authentication failure occurred when connecting to a replication server.

**Explanation:** This action requires authentication with the replication servers. Authentication with one of the servers failed.

**User response:** Ensure that you supplied the correct user ID and password. Either try the request again, or contact your system administrator.

**SAT3026N**  The size of a generated script exceeds the available storage.

**Explanation:** This action generates scripts. At least one of the generated scripts is larger than the maximum available storage.

**User response:** Contact your system administrator or IBM Service.

**SAT3027N**  The database directory entry for a replication source server, control server, or target server does not exist at the instance instance-name.

**Explanation:** This action requires the existence of a database directory entry for the replication source servers, control server, and target server at the instance instance-name. At least one of the directory entries could not be found.

**User response:** Catalog the replication source servers, control server, and target server at instance-name. Or contact your system administrator or IBM Service.

**SAT3028N**  The fix batch batch cannot be deleted because it is being used by at least one satellite.

**Explanation:** A batch cannot be deleted if it is currently being used.

**User response:** Wait until the batch is no longer used by any satellite. Then try the request again.

**SAT3029N**  The script script cannot be changed because it is being used by at least one production or obsolete batch step.

**Explanation:** A script can only be modified if it is not being used by a production or obsolete batch step.

**User response:** Ensure that the script is not currently being used by a production or obsolete batch step. Then try the request again.

**SAT3030N**  The specified obsolete batch step cannot be deleted because it is being used by a batch that is not obsolete.

**Explanation:** An obsolete batch step can only be deleted if it is not being used by any batch that is not obsolete.

**User response:** If the batch that uses this batch step is no longer in use by any satellite, move it to the obsolete level. Then try the request again.

**SAT3031N**  The batch step cannot be deleted because it is not the last step in the set of batch steps.

**Explanation:** A batch step cannot be deleted from the middle of a set of batch steps. All batch steps after it must first be deleted.

**User response:** Delete all the batch steps that follow the batch step to be deleted. Then try the request again.

**SAT3032N**  A production batch step cannot be deleted.

**Explanation:** Production batch steps are used by production satellites for synchronization and cannot be deleted. Only test, unassigned, and obsolete batch steps can be deleted.

**User response:** Take the batch step out of production. Then try the request again.
SAT3033N  Satellite synchronization failed because
the satellite control database
SATCTLDB cannot be found in the
database directory.
Explanation:  The satellite control database is not
cataloged correctly in the database directory.
User response:  Contact the help desk or your system
administrator.

SAT3034N  Satellite synchronization failed because
of an authentication error at the satellite
control server.
Explanation:  Either the user ID or the password sent
to the control server is not correct.
User response:  Contact the help desk or your system
administrator.

SAT3035N  Satellite synchronization failed because
the satellite ID could not be found
locally.
Explanation:  This error may result from bypassing the
operating system logon.
User response:  If you are already logged on to the
operating system, contact the help desk or your system
administrator.

SAT3036N  Satellite synchronization failed because
the satellite control server does not
recognize this satellite.
Explanation:  Either the satellite ID is not defined
correctly on the satellite or this satellite is not defined
correctly at the satellite control server.
User response:  Contact the help desk or your system
administrator.

SAT3037N  Satellite synchronization failed because
of an unknown error.
Explanation:  Unknown.
User response:  Contact the help desk or your system
administrator.

SAT3038N  The synchronizer has detected a severe
DB2 error.  Synchronization cannot
continue.
Explanation:  The cause of this severe error is not
known.
User response:  Contact the help desk or your system
administrator.

SAT3039N  Satellite synchronization failed.  The
satellite is in fail state at the satellite
control server.
Explanation:  This satellite is in fail state, and must be
fixed.
User response:  Contact the help desk or your system
administrator.

SAT3040N  Satellite synchronization failed because
the satellite control server cannot be
contacted.
Explanation:  Communications could not be
established between the satellite and its control server.
One possible reason is that the control server is not
operational, or communications configuration is not
correct (for example, the host name or port number for
the satellite control server is not correct).
User response:  Contact the help desk or your system
administrator.

SAT3041N  Satellite synchronization failed because
communications with the satellite
control server was lost.
Explanation:  A communication link failure occurred.
Either the satellite control server became inactive, or a
network failure was experienced.
User response:  Contact the help desk or your system
administrator.

SAT3042N  The satellite synchronization session did
not complete all tasks successfully.
Explanation:  An error occurred during the satellite
synchronization session.
User response:  Contact the help desk or your system
administrator.

SAT3043N  The satellite synchronization session did
not start successfully.
Explanation:  An error occurred during the start-up
phase of the satellite synchronization session.
User response:  Contact the help desk or your system
administrator.

SAT3044N  The cleanup phase of the satellite
synchronization session did not
complete successfully.
Explanation:  An error occurred during the cleanup
phase of the satellite synchronization session.
User response:  Contact the help desk or your system
administrator.
control-server is not a valid replication control server.

**Explanation:** The selected server is not a valid replication control server. The request cannot be completed.

**User response:** Select a valid replication control server, then try the request again.

---

No generalized replication subscription sets exist for application version application-version-name in group group-name.

**Explanation:** There are no generalized replication subscription sets for the application version application-version-name in the group group-name. A generalized replication subscription set must exist before it can be customized.

**User response:** Generalize one or more replication subscription sets for the application version, and try the request again.

---

The input for field field-name exceeds the limit. The maximum allowable length for this field is maximum-length.

**Explanation:** The length of the input in field field-name exceeds the limit maximum-length.

**User response:** Ensure that the input is within the maximum limit, then try the request again.

---

More than one target server is associated with apply qualifier apply-qualifier at control server control-server.

**Explanation:** A target server of a replication subscription represents a satellite in the group that is executing the specified application version. Consequently, there can only be one target server for a given apply qualifier. If your replication configuration specifies a single target server, then the associated apply qualifier may not have been correctly specified. Otherwise, your replication configuration may not be acceptable for generalization to the satellite environment.

**User response:** First verify that the replication configuration does not specify more than one target server. If it does, correct the replication configuration, then try the generalize replication subscription request again. If the replication configuration does not specify more than one target server, ensure that the correct apply qualifier is specified for the generalize replication subscription request. Then try the request again.

---

The file name is not valid.

**Explanation:** The file name is not valid because it contains at least one of the following characters: \ / : * ? " < > |

**User response:** Ensure that the file name does not contain any of the listed characters. Then try the request again.

---

One or more of the selected satellites does not have an application version.

**Explanation:** You cannot change the replication parameters for a satellite that does not have an application version.

**User response:** Ensure that every selected satellite has an application version. Then try the request again.

---

The generalization of the replication subscriptions failed. At least one of the generated scripts is empty.

**Explanation:** At least one of the scripts generated are empty.

**User response:** Try the generalization again. If the problem persists, contact IBM Service.

---

The database alias or database name name cannot be found.

**Explanation:** The database name or the alias that is specified in the command cannot be found. Either the database is not cataloged in the database directories, or does not exist.

**User response:** Ensure that the specified database name exists in the system database directory, and verify that the database exists. Then try the request again.
Chapter 111. SAT4000 - SAT4499

SAT4000C  
cdb is not a valid satellite control database.

**Explanation:** The database named cdb is not a valid satellite control database. Any database that is named SATCTLDB is initially assumed to be a satellite control database. Any action pertaining to satellite administration that is performed against such a database will first verify that the database is valid. The action will not succeed if the database is not configured correctly. If cdb is a satellite control database, then its configuration has been altered such that it can no longer be used. Otherwise, a non-control database has been given the name SATCTLDB.

**User response:** To avoid misrepresenting a database as a satellite control database, rename the database to anything other than SATCTLDB. If cdb is a satellite control database, verify its configuration with the original definition.
Part 21. SPM Messages

This section contains the sync point manager (SPM) messages. The messages are listed in numeric sequence.
Chapter 112. SPM0000 - SPM0499

SPM0400  Indoubt transaction resolution with DBALIAS=dbois shows heuristic damage - the database rolled back the UOW and the coordinator with LUNAME=luname committed. The transaction is identified by LUWID=luwid.

Explanation:  DB2 was the DRDA2 AS for the transaction identified by luwid. Resolution with the DB2 database shows heuristic damage occurred. The database identified by dbalias manually resolved the indoubt transaction. The DB2 database at luname rolled back the transaction. This is inconsistent with the commit decision of the DRDA2 coordinator at luname.

• The application was told that the transaction was committed.
• Any resources updated at the participant were rolled back.

dbalias  The database alias of the participant.
luname  The LU name of the coordinator.
luwid  The SNA logical unit of work id of the transaction.

The XID associated with the unit of work is printed following this message.

Indoubt resolution with the participant completes.

User response:  Call the database administrator.

Database Administrator Action:  Inform the local database administrator and the database administrator at luname that heuristic damage occurred for the transaction with luwid. DB2 was the coordinator for the transaction and made the decision to roll back the database updates made by luwid. At luname a heuristic decision was made to COMMIT the updates made by luwid.

SPM0402  Indoubt transaction resolution with participant with LUNAME=luname and DBALIAS=dbois shows heuristic damage - the participant committed and DB2 rolled back. The transaction is identified by LUWID=luwid.

Explanation:  DB2 has coordinator responsibility for the transaction identified by luwid. Resolution with the participant shows heuristic damage occurred. The participant identified by luname and dbalias manually resolved the indoubt transaction. The action taken was to commit the transaction. This is inconsistent with the roll back decision of the coordinator.

• The application was told that the unit of work was committed.
• Any resources updated at the participant were committed.

luname  The LU name of the participant.
dbias  The database alias of the participant.
luwid  The SNA logical unit of work id of the transaction.

The XID associated with the unit of work is printed following this message.

Indoubt resolution with the participant completes.

User response:  Call the database administrator.

Database Administrator Action:  Inform the local database administrator and the database administrator at luname that heuristic damage occurred for the transaction with luwid. DB2 was the coordinator for the transaction and made the decision to roll back the database updates made by luwid. At luname a heuristic decision was made to COMMIT the updates made by luwid.

SPM0403  Indoubt transaction resolution with participant with LUNAME=luname and DBALIAS=dbois shows heuristic damage - the participant rolled back and DB2 committed. The transaction is identified by LUWID=luwid.

Explanation:  DB2 has coordinator responsibility for the transaction identified by luwid. Resolution with the participant shows heuristic damage occurred. The participant identified by luname and dbalias manually resolved the indoubt transaction. The action taken was to roll back the UOW. This is inconsistent with the commit decision of the coordinator.

• The application was told that the transaction committed.
• Any resources updated at the participant were rolled back.

luname  The LU name of the participant.
dbias  The database alias of the participant.
luwid  The SNA logical unit of work id of the transaction.
The XID associated with the unit of work is printed following this message.

Indoubt resolution with the participant completes.

**User response:** Call the database administrator.

**Database Administrator Action:** Inform the local database administrator and the database administrator at *luname* that heuristic damage occurred for the transaction with *luwid*. DB2 was the coordinator for the transaction and made the decision to COMMIT the database updates made by *luwid*. At *luname* a heuristic decision was made to ROLL BACK the updates made by *luwid*.

---

**SPM0404**  Protocol error during indoubt transaction resolution with coordinator with LUNAME=*luname1* - the DB2 database with LUNAME=*luname2* has an indoubt transaction which is identified by LUWID=*luwid*.

**Explanation:** DB2 was the DRDA2 AS for the transaction identified by *luwid*. The DB2 transaction associated at the database with LUNAME=*luname2* is indoubt. A protocol error occurred during indoubt resolution with the coordinator identified by *luname1*.

**luname1**  The LU name of the partner acting as the coordinator.

**luname2**  The LU name of the database where the transaction is indoubt.

**luwid**  The SNA logical unit of work id of the transaction.

The XID associated with the unit of work is printed following this message.

The indoubt transaction remains indoubt. A Resync Protocol Violation trace record is written.

**User response:** Call the database administrator.

**Database Administrator Action:** DB2 does not attempt to automatically resolve the indoubt transaction. The transaction must be manually resolved. The commit or abort decision made at the coordinator must be determined so that the same decision can be made at this participant DB2.

Contact the database administrator at the coordinator with *luname* and *dbalias*, to determine whether the transaction committed or aborted.

Use the LIST INDOUBT TRANSACTIONS command at this (the participant) *dbalias* to resolve the indoubt transaction.

---

**SPM0406**  A transaction with LUWID=*luwid* at the participant with LUNAME=*luname* and DBALIAS=*dbalias* may be indoubt because of a communication failure. DB2 committed.

**Explanation:** During execution of the two phase commit protocol with the participant at *luname*, a communication failure occurred. Phase 1 of the protocol completed and the transaction is prepared for either commit or abort. The decision to commit the transaction was made, but cannot be communicated to the participant at this time. The participant is indoubt.

DB2 becomes responsible for indoubt resolution with the participant. This responsibility appears in the LIST DRDA INDOUBTS TRANSACTION report. Periodic attempts are made to reestablish communication with the participant for automatic resolution.

**luname**  The LU unit name of the participant.

**dbalias**  The database alias name of the participant.

**luwid**  The SNA logical unit of work id of the transaction.

The XID associated with the unit of work is printed following this message.

Periodic attempts will be made to automatically resolve the indoubt transaction at the participant.

**User response:** Determine the cause of the communication failure and have the problem corrected. DB2 periodically attempts to reestablish communication for automatic resolution. If automatic resolution does not occur in a reasonable amount of time, call the database administrator. Manual resolution of the transaction might be necessary at the participant to release locked resources.

**Database Administrator Action:** If manual resolution is necessary, inform the database administrator at the participant that the decision is commit.

---

**SPM0407**  Automatic resolution of the transaction with LUWID=*luwid* with the coordinator at LUNAME=*luname* resulted in commit. The DB2 Database is = *dbname*.

**Explanation:** The indoubt transaction at the database identified by *dbname* was automatically resolved by communication with the coordinator identified by *luname*. The transaction was committed.

**luname1**  The LU name of the coordinator.

**luwid**  The SNA logical unit of work id of the transaction.
luname
The LU name of the database where the changes were made.

The XID associated with the unit of work is printed following this message.

Processing continues normally.

SPM0408  A communication failure occurred during automatic resolution with partner with LUNAME=luname.
Communication protocol being used=protocol. Communication API being used=api. Communication function detecting the error=function.
Protocol specific error codes: rc1, rc2, rc3.

Explanation: One or more indoubt transactions exist with luname. DB2 attempted to automatically resolve the indoubt transaction but a communication error occurred.

protocol
The communication protocol being used. Only "APPC" is supported.

api
The communication api being used. Either "CM2 APPC" or "SNA/6000 OS Subroutines" may be specified.

codes
For "CM2 APPC" api, the rc1, rc2, and rc3 contain the primary return code, secondary return code and possibly an SNA sense code. For "SNA/6000 OS Subroutines" api, rc1 contains the errno global variable.

User response: Determine the cause of the communication failure and have the problem corrected. DB2 periodically attempts to reestablish communication for automatic resolution. If automatic resolution does not occur in a reasonable amount of time, call the database administrator. Manual resolution of the transaction might be necessary at the participant to release locked resources.

Database Administrator Action: If manual resolution is necessary, inform the database administrator at the participant that the decision is commit.

SPM0409  A transaction with LUWID=luwid cannot be resolved due to a cold start with LUNAME=luname. DB2 transaction status=status. DB2 transaction responsibility=responsibility.

Explanation: An indoubt transaction exists with the partner at luname. DB2 is unable to resolve the indoubt transaction because the partner has lost all knowledge of indoubt transactions due to a previous cold start.

luwid
The SNA logical unit of work id of the transaction.
### SPM0411 • SPM0413

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>oldtheirname</td>
<td>The log name used by the partner during the last connection, as remembered by DB2.</td>
</tr>
<tr>
<td>newtheirname</td>
<td>The log name used by the partner in the attempted warm start connection.</td>
</tr>
<tr>
<td>oldpa</td>
<td>The sync point protocol used during the last connection, as remembered by the DB2 (PA - Presumed Abort, PN - Presumed Nothing).</td>
</tr>
<tr>
<td>newpa</td>
<td>The sync point protocol used during the last connection, as remembered by the partner (PA - Presumed Abort, PN - Presumed Nothing).</td>
</tr>
<tr>
<td>oldfb</td>
<td>The use of the PS header byte 2 during the last connection, as remembered by DB2 (F - used as flag byte, N - not used as flag byte).</td>
</tr>
<tr>
<td>newfb</td>
<td>The use of the PS header byte 2 during the last connection, as remembered by the partner (F - used as flag byte, N - not used as flag byte).</td>
</tr>
<tr>
<td>oldccls</td>
<td>Whether the luname of the conversation correlator was exchanged as part of the sync point protocol during the last connection, as remembered by DB2. (E - was exchanged, N - was not exchanged).</td>
</tr>
<tr>
<td>newccls</td>
<td>Whether the luname of the conversation correlator was exchanged as part of the sync point protocol during the last connection, as remembered by the partner (E - was exchanged, N - was not exchanged).</td>
</tr>
</tbody>
</table>

The connection with the partner is rejected. DB2 retains indoubt knowledge.

**User response:** Call the database administrator.

**Database Administrator Action:** Contact the database administrator at the partner `luname` and determine if it is possible for the partner to perform a warm start with same sync point parameters as ours ('oldourname', 'oldtheirname', 'oldpa', 'oldfb', 'oldccls'). If this is possible, the next attempt to connect will succeed. If this cannot be done, then there are two other possible solutions:

- Have the partner `luname` perform a cold start connection with this DB2 subsystem.
- Force the next connection with the partner to be a cold start connection.

---

### SPM0411 Cold start connection by coordinator with LUNAME=`luname` accepted. Indoubt transactions need manual resolution.

**Explanation:** DB2 was the DRDA2 AS and has participant responsibility for indoubt transactions. The indoubt transactions at this DB2 must be manually resolved with the LIST INDOUBT TRANSACTIONS command.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>dbalias</td>
<td>The database alias name of the coordinator.</td>
</tr>
</tbody>
</table>

The connection with the partner is accepted. A trace record is written.

**User response:** Call the database administrator.

**Database Administrator Action:** DB2 is a participant with one or more indoubt transactions where the coordinator is `luname`. The DBMS at `luname` performed a cold start. The DB2 participant assumes that the coordinator recovery log was lost or damaged and indoubt transaction resolution cannot be achieved. There is probably inconsistent data at the coordinator.

The heuristic decision (that is, to commit or abort the transaction should be coordinated with any other participants. The existence of other participants might not be easy to determine. The information might be available in the coordinators recovery log even though the coordinator performed a cold start.

The commit or abort decision provided using the LIST INDOUBT TRANSACTIONS command for the transaction are propagated to all downstream participants, if any.

---

### SPM0413 Protocol error detected in sync point communications with participant with LUNAME=`luname` and DBALIAS=`dbalias`. The transaction with LUWID=`luwid` may be indoubt at the participant. DB2 committed.

**Explanation:** DB2 is the coordinator of the transaction. A protocol error occurred during the SNA sync point exchange with the participant identified by `luname` and `dbalias`. The protocol error fits into one of the following categories:

- An unknown SNA PS header was received.
- An SNA PS header was received in the wrong sequence.
- An invalid LU6.2 verb sequence was used to deliver the SNA PS header.
- A DEALLOCATE TYPE(ABEND_SVC) was received from the participant, indicating that the participant detected a protocol violation in the PS headers transmitted by DB2.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>luname</td>
<td>The LU name of the participant.</td>
</tr>
<tr>
<td>dbalias</td>
<td>The database alias name of the participant.</td>
</tr>
<tr>
<td>luwid</td>
<td>The SNA logical unit of work id of the transaction.</td>
</tr>
</tbody>
</table>

The XID associated with the unit of work is printed following this message.
If application was told that the transaction committed.

There may be an indoubt transaction at the participant and if so, the indoubt transaction must be manually resolved. DB2 does not automatically resolve the indoubt transaction because of the protocol error.

A Syncpoint Protocol Violation trace record is written.

**User response:** Call the database administrator. The participant might need to manually resolve the indoubt transaction.

**SPM0414**  Protocol error during indoubt transaction resolution with participant with LUNAME=luname and DBALIAS=dbalias. The transaction with LUWID=luwid may be indoubt at the participant. DB2 rolled back.

**Explanation:** DB2 has coordinator responsibility for the transaction which was rolled back. A protocol error occurred during indoubt resolution with the participant identified by luname and dbalias.

The transaction at the participant remains indoubt. DB2 will not attempt to automatically resolve the indoubt transaction because of the protocol violation.

**luname**  The LU name of the participant.

**dbalias**  The database alias name of the participant.

**luwid**  The SNA logical unit of work id of the transaction.

The XID associated with the unit of work is printed following this message.

A Resync Protocol Violation trace record is written.

**User response:** Call the database administrator. The participant might need to manually resolve the indoubt transaction.

**SPM0416**  Cold start connection rejected by partner with LUNAME luname.

**Explanation:** DB2 attempted to make a cold-start connection with a partner dbalias. The partner rejected this attempted connection.

**luname**  The LU name of the coordinator.

The connection was not made.

**User response:** Call the database administrator.

**Database Administrator Action:** DB2 is not able to connect the partner luname until the partner luname allows a cold-start connection with DB2. Contact the database administrator at the partner luname.

Contact your IBM Support Center for further assistance.

**SPM0417**  Protocol error detected in sync point communications with participant with LUNAME=luname and DBALIAS=dbalias. The transaction with LUWID=luwid may be indoubt at the participant. DB2 rolled back.

**Explanation:** DB2 is the coordinator of the transaction. A protocol error occurred during the SNA sync point exchange with the participant identified by luname and dbalias. The protocol error fits into one of the following categories:

- An unknown SNA PS header was received.
- An SNA PS header was received in the wrong sequence.
- An invalid LU6.2 verb sequence was used to deliver the SNA PS header.
- A DEALLOCATE TYPE(ABEND_SVC) was received from the participant, indicating that the participant detected a protocol violation in the PS headers transmitted by DB2.

**luname**  The LU name of the participant.

**dbalias**  The database alias name of the participant.

**luwid**  The SNA logical unit of work id of the transaction.

The XID associated with the unit of work is printed following this message.
If the application was told that the transaction rolled back,

there may be an indoubt transaction at the participant
and if so, the indoubt transaction must be manually
resolved. DB2 does not automatically resolve the
indoubt transaction because of the protocol error.

A Syncpoint Protocol Violation trace record is written.

User response: Call the database administrator. The
participant might need to manually resolve the indoubt
transaction.

---

**SPM0420** Cold start connection by participant
with LUNAME=luname accepted.

Possible damage.

**Explanation:** DB2 has coordinator responsibility for
indoubt transactions at a participant and just connected
with the participant, which lost all knowledge of
indoubt transactions because of a previous cold start.
There might be damage at the participant.

**luname**
The LU name of the participant where there
might be damage.

The connection with the partner is accepted.

User response: Call the database administrator.

**Database Administrator Action:** DB2 is the coordinator
with indoubt transaction resolution responsibility for
one or more indoubt units of work at luname. The
DBMS at luname performed a cold start. DB2 assumes
that the participant recovery log was lost or damaged
and indoubt transaction resolution cannot be achieved.
There is probably inconsistent data at the participant.
Minimally, the participant might not completely reflect
the final outcome of the transactions that were indoubt
at the time the failure occurred.

---

**SPM0421** SNA XLN protocol violation by partner
with LUNAME=luname.

**Explanation:** DB2 detected a protocol violation in the
SNA Exchange Log Names (XLN) exchange with the
partner at the specified luname.

**luname**
The LU name of the partner that sent the
invalid XLN message.

The attempt to connect with the remote site fails. An
XLN Protocol Violation trace record is written.

User response: Contact the system programmer for
the remote site. The invalid XLN message is recorded
in the trace record. The system logic error that causes
the invalid XLN message must be corrected at the
remote site.

---

**SPM0422** Warm start connection by partner with
LUNAME=luname rejected because the
partner remembers our log name
incorrectly. Our log name is name1 and
the partner remembers it as name2.

**Explanation:** An attempt to make a warm start
connection with a partner was rejected because the
partner specified our log name as name2. Our log
name is name1, which is the luname of the local DB2.
This error might be a recoverable error if the partner
can restart with our log name as name1. If this is not
possible, then the partner must perform a cold start
connection with DB2.

**luname**
The LU name of the partner with which the
connection failed.

**name1** Our log name, as remembered by us.

**name2** Our log name, as remembered by our partner
and sent to us in the attempted warm start
connection.

The connection with the partner is rejected.

User response: Call the database administrator.

**Database Administrator Action:** Contact the database
administrator at the partner luname and determine if it
is possible for the partner to perform a warm start with
our log name specified as the luname of this DB2. If
this is possible, the next attempt to connect will
succeed. Or have the partner luname perform a cold
start connection with DB2.

---

**SPM0423** Automatic resolution of the transaction
with LUWID=luwid with the partner at
LUNAME=luname and DBALIAS=dbalias
resulted in commit.

**Explanation:** The indoubt unit of work was
automatically resolved by communication with the
participant. The participant has been notified of the
commit decision.

**luname**
The LU name of the participant.

**dbalias** The database alias name of the participant.

**luwid** The SNA logical unit of work id of the
transaction.

The XID associated with the unit of work is printed
following this message.

Processing continues normally.
SPM0424  Automatic resolution of the transaction with LUWID=luwid with the participant at LUNAME=luname and DBALIAS=dbalias resulted in rollback.

Explanation: The indoubt unit of work was automatically resolved by communication with the participant. The participant has been notified of the rollback decision.

luname  The LU name of the participant.

dbalias  The database alias name of the participant.

luwid  The SNA logical unit of work id of the transaction.

The XID associated with the unit of work is printed following this message.

Processing continues normally.

SPM0425  A transaction with LUWID=luwid at the participant with LUNAME=luname and DBALIAS=dbalias may be indoubt because of a communication failure. DB2 rolled back.

Explanation: During execution of the two phase commit protocol with the participant at luname, a communication failure occurred. Phase 1 of the protocol completed and the transaction is prepared for either commit or abort. The decision to roll back the transaction was made, but cannot be communicated to the participant at this time. The participant is indoubt.

DB2 becomes responsible for indoubt resolution with the participant. This responsibility appears in the LIST DRDA INDOUBTS TRANSACTION report. Periodic attempts are made to reestablish communication with the participant for automatic resolution.

luname  The LU unit name of the participant.

dbalias  The database alias name of the participant.

luwid  The SNA logical unit of work id of the transaction.

The XID associated with the unit of work is printed following this message.

A Resync Protocol Violation trace record is written.

User response: Call the database administrator. The participant might need to manually resolve the indoubt transaction.

Database Administrator Action: If the transaction is indoubt at the participant, it must be manually (heuristically) resolved.

SPM0426  Protocol error detected during indoubt transaction resolution with participant at LUNAME=luname and DBALIAS=dbalias. The transaction with LUWID=luwid may be indoubt at the participant. DB2 committed.

Explanation: DB2 has coordinator responsibility for the transaction which was committed. A protocol error occurred during indoubt resolution with the participant identified by luname and dbalias.

The transaction at the participant remains indoubt. DB2 will not attempt to automatically resolve the indoubt transaction because of the protocol violation.

luname  The LU name of the participant.

dbalias  The database alias name of the participant.

luwid  The SNA logical unit of work id of the transaction.

The XID associated with the unit of work is printed following this message.

A Resync Protocol Violation trace record is written.

User response: Call the database administrator. The participant might need to manually resolve the indoubt transaction.

Database Administrator Action: If the transaction is indoubt at the participant, it must be manually (heuristically) resolved.

SPM0438  The Sync point manager recovery log is bad.

Explanation: The sync point manager recovery log is inconsistent and cannot be used to perform recovery during DB2 start up processing.

User response: Indoubt transactions may exist at DRDA2 application servers. These indoubt transactions must be recovered manually.

Call the database administrator.

Database Administrator Action: To start the sync point manager, erase the spmlog directory and start DB2. This will cause DB2 to create new sync point log files and to establish cold start connections with all DRDA2 application servers.
**SPM0439**  Sync point manager unrecoverable error while attempting to write to the sync point manager recovery log.

**Explanation:** The sync point manager log is inconsistent and cannot be used. An unrecoverable error has been detected while attempting to write to the SPM log during DB2 processing.

**User response:** The sync point manager will not allow any new synclevel (twophase) connections. Issue the LIST DRDA INDOUBT TRANSACTIONS command to determine the status of any indoubt transactions. Call the database administrator.

**Database Administrator Action:** To start the sync point manager, erase the spmlog directory and start DB2. This will cause DB2 to create new sync point log files and to establish cold start connections with all DRDA2 application servers.

**SPM0440E**  Error encountered while trying to start protocol protocol support. Return code from function was rc. The most probable cause for this error is that SNA has not been started. Please stop DB2, start SNA, and restart DB2.

**Explanation:** This error occurs when the customer is trying to start the sync point manager using CS/NT V5.01 and is using a Local LU 6.2 definition where the SNA API client use flag has been set.

**User response:** Either choose a different local LU 6.2 (without the SNA API client use configured) or disable the SNA API client use flag for the Local LU 6.2 definition.

**SPM0448E**  Error encountered while trying to start the sync point manager protocol support. The sync point manager failed to register LUNAME luname for sync point support since this LU has been configured for SNA API client use. Either choose a different LU for the sync point manager or disable the SNA API client use in the Local LU 6.2 definition for this LU.

**Explanation:** This error occurs when the customer is trying to start the sync point manager using CS/NT V5.01 and is using a Local LU 6.2 definition where the SNA API client use flag has been set.

**User response:** Either choose a different local LU 6.2 (without the SNA API client use configured) or disable the SNA API client use flag for the Local LU 6.2 definition.

**SPM0449E**  Connection attempt failed. The most probable cause for the failure is that the LU specified in the CPIC Side information profile profile1 does not match the sync point manager LU specified in the CPIC Side information profile profile2.

**Explanation:** In order to have proper communications with the host system, any CPIC Side information profile defined for communication must specify the same LU as defined for the configured sync point manager.

**User response:** Update SNA CPIC Side information profile profile1 with the proper LU, verify the SNA profile, stop and restart both SNA and DB2, and try the connection again.

**SPM0450E**  Library could not be loaded. Access Permissions denied.

**Explanation:** The most probable cause for this problem is a result of a bug in Windows NT.

**User response:** Ensure that all network drives in your System and local PATH statement are at the end of the PATH statement. Select Start/Settings/Control Panel/System/Environment/System/Path and move all network drives to the end of the path statement. Then shutdown and restart the system.

**SPM0451E**  MS SNA Server not started.

**Explanation:** The SNA server is not started.

**User response:** Please start SNA Server and restart DB2.

**SPM0452I**  Ensure that the SPM_NAME specified in the database manager configuration is not the same as the Control Point name. The SPM_NAME has been temporarily replaced with temp-name.

**Explanation:** The SPM_NAME cannot be the same as the Control Point name. The SPM_NAME has been temporarily replaced with an alternate name, but the database manager configuration file has not been changed.

**User response:** Update the SPM_NAME in the database manager configuration file. Specify a name that is not the Control Point name.

**SPM0456C**  Sync point manager was not started. Ensure the Client field of the Logical Unit (LU) represented by the LU Alias lunalias contains the name of this SNA Server.

**Explanation:** To start sync point manager, the LU must be sync point enabled. To sync point enable the LU, ensure that the "Enable Syncpoint Support" checkbox is checked and that the Client field contains the name of this SNA Server.

In this situation the "Enable Syncpoint Support" checkbox is checked but the Client field is not filled in.

**User response:** Modify the LU definition so that the LU is sync point enabled and the Client field contains the name of the SNA Server. Stop and restart SNA Server and then stop and restart DB2.
Another DB2 instance is already listening for transaction program DB2DRDA. This is not a fatal error. However, this instance will not listen for transaction program DB2DRDA.

Explanation: Unless the sync point manager is enabled, only a single DB2 instance can listen for Transaction Program DB2DRDA.

User response: Define DB2 registry value DB2SERVICETPINSTANCE at a global level to define which instance listens for transaction program DB2DRDA. Then restart all affected instances.

To define the DB2 registry value DB2SERVICETPINSTANCE at a global level, issue the following command:

db2set -g DB2SERVICETPINSTANCE=<instance-name>

where <instance-name> represents the name of the instance.

Another DB2 instance is already listening for transaction program x'07'6DB (hex 07F6C4C2). This is not a fatal error. However, this instance will not listen for transaction program x'07'6DB.

Explanation: Only a single DB2 instance can listen for transaction program x'07'6DB unless the sync point manager is enabled.

User response: Define DB2 registry value DB2SERVICETPINSTANCE at a global level to define which instance listens for transaction program x'07'6DB (hex 07F6C4C2). Then restart all affected instances.

To define the DB2 registry value DB2SERVICETPINSTANCE at a global level, issue the following command:

db2set -g DB2SERVICETPINSTANCE=<instance-name>

where <instance-name> represents the name of the instance.

The version of SNA you have installed is incompatible with this version of DB2.

Explanation: DB2 Connect for AIX and DB2 Universal Database for AIX V6.1 and greater require IBM eNetwork Communication Server for AIX V5.0.3 or higher for SNA connectivity.

The required version of IBM Communication Server is not installed on this machine.

User response: You must upgrade to the IBM eNetwork Communications Server for AIX V5.0.3. The PTF can be downloaded from:

http://service.software.ibm.com/cgi-bin/support/rs6000/support/downloads.

Select AIX General Software Fixes, AIX Fix Distribution Service, AIX Version 4, and Search By PTF Number. Enter the search string sna.rte. Select Find Fix. Once the PTF is listed, select the PTF, then click Get Fix Package and follow the instructions.
Part 22. SPM protocol violation records

This section shows the Protocol Violation records generated by the sync point manager. These records will be directed to the first failure service log (db2diag log file) and will follow the corresponding message.

Resync Protocol Violation Record

/****************************************************************************
* SQLCSPM_RESYNC_PROTOCOL_VIOLATION_206 - Resync Protocol error. *
* This trace is produced when a protocol error occurs during a Resync. *
****************************************************************************/
#define SQLCSPM_RPV_206_T "SQLCSPM_RESYNC_PROTOCOL_VIOLATION_206" /* Title.*/
typedef struct sqlcspm_resync_protocol_violation_206
{ /* */
    SQLCSPM_LUNAME luname; /* Site involved in violation. */
    SQLCSPM_LUWID luwid; /* LUWID for the unit of work. */
    SQLXA_XID xid; /* XID of the thread. */
    char role; /* Role of DB2 in LUW -- C or P. */
    /* C for coordinator. */
    /* P for participant. */
    char status; /* Local thread status -- C, A or I */
    /* C for COMMIT. */
    /* A for ABORT. */
    /* I for INDOUBT. */
    SQLCSPS_TRACE comm_trace; /* Communication trace of violation. */
} SQLCSPM_RESYNC_PROTOCOL_VIOLATION_206;

Syncpoint Protocol Violation Record

/****************************************************************************
* SQLCSPM_2PHASE_PROTOCOL_VIOLATION_208 - Syncpoint protocol error. *
* This trace is produced when a protocol error occurs during the SNA syncpoint process with a remote resource. *
****************************************************************************/
#define SQLCSPM_2PPV_208_T "SQLCSPM_2PHASE_PROTOCOL_VIOLATION_208" /* Title.*/
typedef struct sqlcspm_2phase_protocol_violation_208
{ /* */
    SQLCSPM_LUNAME luname; /* Site involved in violation. */
    SQLCSPM_LUWID luwid; /* LUWID for the unit of work. */
    SQLXA_XID xid; /* XID of the thread. */
    char role; /* Role of DB2 in LUW -- C or P. */
    /* C for coordinator. */
    /* P for participant. */
    char local_status; /* Local thread status -- C, A or I */
    /* C for COMMIT. */
    /* A for ABORT. */
    /* I for INDOUBT. */
    char partner_status; /* Partner thread status -- C, A or I */
    /* C for COMMIT. */
    /* A for ABORT. */
    /* I for INDOUBT. */
    SQLCSPS_TRACE comm_trace; /* Communication trace of violation. */
} SQLCSPM_2PHASE_PROTOCOL_VIOLATION_208;
Part 23. Appendixes
Appendix A. Overview of the DB2 technical information

DB2 technical information is available in multiple formats that can be accessed in multiple ways.

DB2 technical information is available through the following tools and methods:

- DB2 Information Center
  - Topics (Task, concept and reference topics)
  - Sample programs
  - Tutorials
- DB2 books
  - PDF files (downloadable)
  - PDF files (from the DB2 PDF DVD)
  - printed books
- Command-line help
  - Command help
  - Message help

Note: The DB2 Information Center topics are updated more frequently than either the PDF or the hardcopy books. To get the most current information, install the documentation updates as they become available, or refer to the DB2 Information Center at ibm.com.

You can access additional DB2 technical information such as technotes, white papers, and IBM Redbooks® publications online at ibm.com. Access the DB2 Information Management software library site at http://www.ibm.com/software/data/sw-library/.

Documentation feedback

We value your feedback on the DB2 documentation. If you have suggestions for how to improve the DB2 documentation, send an email to db2docs@ca.ibm.com. The DB2 documentation team reads all of your feedback, but cannot respond to you directly. Provide specific examples wherever possible so that we can better understand your concerns. If you are providing feedback on a specific topic or help file, include the topic title and URL.

Do not use this email address to contact DB2 Customer Support. If you have a DB2 technical issue that the documentation does not resolve, contact your local IBM service center for assistance.

DB2 technical library in hardcopy or PDF format


Although the tables identify books available in print, the books might not be available in your country or region.
The form number increases each time a manual is updated. Ensure that you are reading the most recent version of the manuals, as listed below.

**Note:** The *DB2 Information Center* is updated more frequently than either the PDF or the hard-copy books.

<table>
<thead>
<tr>
<th>Name</th>
<th>Form Number</th>
<th>Available in print</th>
<th>Availability date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative API Reference</td>
<td>SC27-5506-00</td>
<td>Yes</td>
<td>July 28, 2013</td>
</tr>
<tr>
<td>Administrative Routines and Views</td>
<td>SC27-5507-00</td>
<td>No</td>
<td>July 28, 2013</td>
</tr>
<tr>
<td>Call Level Interface Guide and Reference Volume 1</td>
<td>SC27-5511-00</td>
<td>Yes</td>
<td>July 28, 2013</td>
</tr>
<tr>
<td>Call Level Interface Guide and Reference Volume 2</td>
<td>SC27-5512-00</td>
<td>Yes</td>
<td>July 28, 2013</td>
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<tr>
<td>Command Reference</td>
<td>SC27-5508-00</td>
<td>Yes</td>
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<tr>
<td>Database Administration Concepts and Configuration Reference</td>
<td>SC27-4546-00</td>
<td>Yes</td>
<td>July 28, 2013</td>
</tr>
<tr>
<td>DB2 Workload Management Guide and Reference</td>
<td>SC27-5520-00</td>
<td>Yes</td>
<td>July 28, 2013</td>
</tr>
<tr>
<td>Developing ADO.NET and OLE DB Applications</td>
<td>SC27-4549-00</td>
<td>Yes</td>
<td>July 28, 2013</td>
</tr>
<tr>
<td>Developing Embedded SQL Applications</td>
<td>SC27-4550-00</td>
<td>Yes</td>
<td>July 28, 2013</td>
</tr>
<tr>
<td>Developing Java Applications</td>
<td>SC27-5503-00</td>
<td>Yes</td>
<td>July 28, 2013</td>
</tr>
<tr>
<td>Developing Perl, PHP, Python, and Ruby on Rails Applications</td>
<td>SC27-5504-00</td>
<td>No</td>
<td>July 28, 2013</td>
</tr>
<tr>
<td>Developing RDF Applications for IBM Data Servers</td>
<td>SC27-5505-00</td>
<td>Yes</td>
<td>July 28, 2013</td>
</tr>
<tr>
<td>Developing User-defined Routines (SQL and External)</td>
<td>SC27-5501-00</td>
<td>Yes</td>
<td>July 28, 2013</td>
</tr>
<tr>
<td>Getting Started with Database Application Development</td>
<td>GI13-2084-00</td>
<td>Yes</td>
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Table 1. DB2 technical information (continued)

<table>
<thead>
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<th>Name</th>
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<tr>
<td>Getting Started with DB2 Installation and Administration on Linux and Windows</td>
<td>GI13-2085-00</td>
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Table 2. DB2 Connect-specific technical information

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<tr>
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Displaying SQL state help from the command line processor

DB2 products return an SQLSTATE value for conditions that can be the result of an SQL statement. SQLSTATE help explains the meanings of SQL states and SQL state class codes.

Procedure

To start SQL state help, open the command line processor and enter:

```
? sqlstate or ? class code
```

where `sqlstate` represents a valid five-digit SQL state and `class code` represents the first two digits of the SQL state.

For example, `? 08003` displays help for the 08003 SQL state, and `? 08` displays help for the 08 class code.

Accessing different versions of the DB2 Information Center

Documentation for other versions of DB2 products is found in separate information centers on ibm.com®.

About this task

For DB2 Version 10.1 topics, the DB2 Information Center URL is http://pic.dhe.ibm.com/infocenter/db2luw/v10r1.

For DB2 Version 9.8 topics, the DB2 Information Center URL is http://pic.dhe.ibm.com/infocenter/db2luw/v9r8/.

For DB2 Version 9.7 topics, the DB2 Information Center URL is http://pic.dhe.ibm.com/infocenter/db2luw/v9r7/.

For DB2 Version 9.5 topics, the DB2 Information Center URL is http://publib.boulder.ibm.com/infocenter/db2luw/v9r5.

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