

IBM DB2 Information Integrator



Release Notes for Classic Federation

Version 8.2

IBM DB2 Information Integrator



Release Notes for Classic Federation

Version 8.2

Before using this information and the product it supports, be sure to read the general information under “Notices” on page 7.

This document contains proprietary information of IBM. It is provided under a license agreement and copyright law protects it. The information contained in this publication does not include any product warranties, and any statements provided in this manual should not be interpreted as such.

You can order IBM publications online or through your local IBM representative:

- To order publications online, go to the IBM Publications Center at www.ibm.com/shop/publications/order
- To find your local IBM representative, go to the IBM Directory of Worldwide Contacts at www.ibm.com/planetwide

When you send information to IBM, you grant IBM a nonexclusive right to use or distribute the information in any way it believes appropriate without incurring any obligation to you.

© Copyright International Business Machines Corporation 2005. All rights reserved.

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Contents

About the release notes v

DB2 Information Integrator support on the web . . . v

Troubleshooting 1

Product fixes 3

Adabas data sources 3

CLI, JDBC, and ODBC drivers 3

CPU Governor Exit 3

Data Mapper 3

Data Server 4

Enterprise Server 4

Product updates 5

CA-IDMS: Mapping to DBKEY 5

CLI client for 32-bit Linux 5

IMS: HALDB support 5

WLM exit 5

Notices 7

Trademarks 9

Contacting IBM 11

Product information 11

Comments on the documentation 11

About the release notes

The release notes contain the latest information about IBM® DB2® Information Integrator Classic Federation for z/OS®, Version 8.2.

The release notes are in two parts:

- The first part details the diagnostic information that you can give to support if you encounter a problem with Classic Federation.
- The second part describes the product fixes and enhancements included in the Version 8.2 PTF.

DB2 Information Integrator support on the web

For more information about DB2 Information Integrator and the latest support issues, see the DB2 Information Integrator support Web page at www.ibm.com/software/data/integration/db2ii/support.html.

Troubleshooting

When you encounter a problem and contact support, be prepared to provide some or all of the following diagnostic information:

All applicable configuration files captured within the server log

For example:

- The data server
- The correlation server
- The query processor
- The user override

You can use the MTO DISPLAY, CONFIG command to display the contents of an active configuration member in the data server's log. See *IBM DB2 Information Integrator Administration Guide and Reference for Classic Federation and Classic Event Publishing* for information on using this command.

You can also send the configuration files in the SCACCONF data set that is referenced in the data server JCL.

Other information that you might need to provide

- The entire data server output
- All applicable copybooks, queries, and USE grammar
- A trace file.

For additional diagnostics, you might need to provide the following information:

- If you are using Adabas data sources: the ADAREP and DDL
- If you are using CA-DATACOM, the output from the Multi-User Facility and the DBUTILITY reports
- If you are using CA-IDMS data sources: the schema and subschema reports
- If you are using IMS™ data sources: the IMS transaction logs
- If you are using VSAM data sources: the CICS® logs

For information about tracing, see the section about server logging in the *DB2 Information Integrator Administration Guide and Reference for Classic Federation and Event Publishing*.

- A system dump.

In the event of an abend, the full system dump is not automatically generated. If the abend is reproducible, you can add the appropriate SYSMDUMP DD to generate the dump. If a SYSMDUMP is requested, the dump is routed to the data set that is defined in the SYSMDUMP DD.

If an abend occurs and the data server's JCL does not contain a SYSMDUMP DD statement, check the data server's JES message log and the system message log to determine whether a system dump was created.

- Formatted messages from queues. The ep_extras.zip file contains a program and queue definitions that will read the message queues.

Abend problems on z/OS

Include the PSW and REGS at the time of the error and the SAS/C

function call trace stack. You can find the PSW and REGS in the data server output, under JESMSG LG and JESYSMSG. You can find the SAS/C function call trace stack in the data server output in SYSTERM or in the system generated DDs, for example: SYSnnnnn.

If the problem is an abend, traceback information from the call stack is sent to Standard Output at the time of error. Traceback information is sent to the job log, if you are running in batch mode.

Problems with the metadata utility

Provide the SYSOUT from the problem run.

Product fixes

The following sections describe the product fixes and enhancements included in this Version 8.2 PTF.

Adabas data sources

DB2 Information Integrator Classic Edition did not correctly detect and function with reentrant ADALNK modules at or above Adabas 7.4.2.

CLI, JDBC, and ODBC drivers

- When DB2 Information Integrator applications connected to the DB2 Information Integrator Classic Federation data server using the ODBC wrapper, a CONNECT RESET command caused the db2fmp process to exit. The disconnect request occurred because the CONNECT RESET command was not handled correctly.
- For WebSphere® Business Integrator message brokers that are connected to a data server through ODBC, SQLDescribeParam for SQL statements of the type "select * from cxa.stocks where stock_symbol = (?);" did not work. The parentheses caused the wrong parameter metadata to be returned.
- DB2 Information Integrator Classic Federation was not integrating well with DB2 Information Integrator on UNIX® platforms for the following reasons:
 - MP SpinLock calls, which changed in AIX® 4.3.3, were not handled correctly.
 - The ODBC driver had memory leaks.
 - Creating nicknames was not possible when the SQLTables call was made with system tables as parameters. The generated SQL returned 0 rows.
- For ODBC client applications, binding a parameter to a DATA_BIN8 column, which is FLOAT(10) on DB2 for z/OS, with SQL_C_FLOAT and SQL_REAL did not work. A value of 0 was bound to the parameter regardless of the input value.
- When a statement was re-executed from WebSphere Business Integrator message brokers, the ODBC Driver Manager returned a "Function Out Of Sequence" error.
- Misaligned data in the CLI client on HP-UX UNIX caused a SIGBUS error.
- For ODBC client applications, inserts in mixed mode (with DBCS and non-DBCS characters) failed.
- Any client application capable of multiple connections might hang when two simultaneous connections were established from AIX to access Adabas data through DB2 Information Integrator Classic Federation.

CPU Governor Exit

Normal settings for the configuration parameter INTERLEAVE INTERVAL could cause S0C1 abends in the CPU Governor exit.

Data Mapper

Blanks or Japanese characters appeared instead of Swedish characters when Swedish characters were entered in the Remarks field of Data Mapper.

Data Server

- If a query contained DEC columns in which a decimal constant was in excess of +/-999,999,999,999,999, DB2 Information Integrator Classic Federation performed a table scan, which could cause client connections to timeout. For DEC columns that are indexed, DB2 Information Integrator Classic Federation now uses available indices when the predicate is of the form COLUMN = VALUE, COLUMN is defined as decimal, and VALUE is a decimal constant that is less than or equal to +/-72,057,594,037,927,936.
- Users were unable to process CA-IDMS schemas that contained periods in comments.
- CONCAT(expr1, expr2) was not supported in queries.
- Putting curly braces and the fn qualifier around a function in a query is now supported, as in the following example: {fn(CONCAT(expr1,expr2))}
- When users issued the DISPLAY,USERS command, the STMTS column did not display the correct data.
- When the data server was shut down, it incorrectly issued the message CAC00131E - DB2 SUBSYSTEM TERMINATING.
- In result sets that were returned from Adabas data sources, dates in Gregorian format were not displayed correctly.

Enterprise Server

Clients were unable to connect to enterprise servers when one or more data servers were processing large queries.

Product updates

CA-IDMS: Mapping to DBKEY

Mapping a column to the DBKEY of a record when mapping a CA-IDMS table is now supported for any record included in the PATH. Use the following column mapping in the USE GRAMMAR:

```
Column-name SOURCE DESCRIPTION ENTRY record-name _DBKEY_ USE AS INTEGER
```

You can reference the new column as though it were any other column, with the following restrictions:

- DBKEY columns are ignored on INSERT statements.
- DBKEY columns cannot be referenced in a SET clause of an UPDATE statement.
- You cannot use DBKEY to optimize queries. Therefore, you might experience table scans if no CALC key or INDEX is available and referenced in the WHERE clause.
- Inserts to tables with DBKEY columns must provide a column list that does not include the DBKEY column.

CLI client for 32-bit Linux

The CLI client now supports 32-bit Linux[®] platforms. The supported distributions are Red Hat Enterprise Linux 3 and SuSE LINUX Enterprise Server 9 (Service Pack 2).

To download and install the client:

1. Log on anonymously to the FTP site
`ftp://cxacust:class1cfed@service2.boulder.ibm.com/`.
2. Download the file `cac821x.tar` from the directory `ga/v820/clients`.
3. In the directory to which you downloaded the file, untar the contents of the file.
4. As root, run the following command: `./cac821x`

IMS: HALDB support

IMS PHDAM and PHIDAM high-availability large databases (HALDB) are now supported as data sources.

WLM exit

The WLM Exit has been modified to issue an enclave reset whenever an SQL statement completes executing. This new behavior allows the WLM Exit to behave as documented in the *IBM DB2 Information Integrator Administration Guide and Reference for Classic Federation and Classic Event Publishing*.

Notices

This information was developed for products and services offered in the U.S.A. IBM may not offer the products, services, or features discussed in this document in all countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, NY 10504-1785
U.S.A.

For license inquiries regarding double-byte (DBCS) information, contact the IBM Intellectual Property Department in your country/region or send inquiries, in writing, to:

IBM World Trade Asia Corporation
Licensing
2-31 Roppongi 3-chome, Minato-ku
Tokyo 106-0032, Japan

The following paragraph does not apply to the United Kingdom or any other country/region where such provisions are inconsistent with local law:
INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions; therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product, and use of those Web sites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information that has been exchanged, should contact:

IBM Corporation
J46A/G4
555 Bailey Avenue
San Jose, CA 95141-1003
U.S.A.

Such information may be available, subject to appropriate terms and conditions, including in some cases payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement, or any equivalent agreement between us.

Any performance data contained herein was determined in a controlled environment. Therefore, the results obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems, and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements, or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility, or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

All statements regarding IBM's future direction or intent are subject to change or withdrawal without notice, and represent goals and objectives only.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious, and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

COPYRIGHT LICENSE:

This information contains sample application programs, in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM for the purposes of developing, using, marketing, or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs. You may copy, modify, and distribute these sample programs in any form without payment to IBM for the purposes of developing, using, marketing, or distributing application programs conforming to IBM's application programming interfaces.

Each copy or any portion of these sample programs or any derivative work must include a copyright notice as follows:

© (*your company name*) (*year*). Portions of this code are derived from IBM Corp. Sample Programs. © Copyright IBM Corp. *_enter the year or years_*. All rights reserved.

Trademarks

The following terms are trademarks of International Business Machines Corporation in the United States, other countries, or both:

IBM
AIX
CICS
COBOL/370
DB2
DB2 Universal Database
IMS
Language Environment
MVS
MVS/ESA
SAA
VTAM
WebSphere
z/OS

The following terms are trademarks or registered trademarks of other companies:

Java and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the United States, other countries, or both.

Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.

Intel, Intel Inside (logos), MMX and Pentium are trademarks of Intel Corporation in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Other company, product or service names may be trademarks or service marks of others.

Contacting IBM

To contact IBM customer service in the United States or Canada, call 1-800-IBM-SERV (1-800-426-7378).

To learn about available service options, call one of the following numbers:

- In the United States: 1-888-426-4343
- In Canada: 1-800-465-9600

To locate an IBM office in your country or region, see the IBM Directory of Worldwide Contacts on the Web at www.ibm.com/planetwide.

Product information

Information about DB2 Information Integrator is available by telephone or on the Web.

If you live in the United States, you can call one of the following numbers:

- To order products or to obtain general information: 1-800-IBM-CALL (1-800-426-2255)
- To order publications: 1-800-879-2755

On the Web, go to www.ibm.com/software/data/integration/db2ii/support.html. This site contains the latest information about:

- The technical library
- Ordering books
- Client downloads
- Newsgroups
- Fix packs
- News
- Links to Web resources

Comments on the documentation

Your feedback helps IBM to provide quality information. Please send any comments that you have about this book or other DB2 Information Integrator documentation. You can use any of the following methods to provide comments:

- Send your comments using the online readers' comment form at www.ibm.com/software/data/rcf.
- Send your comments by e-mail to comments@us.ibm.com. Include the name of the product, the version number of the product, and the name and part number of the book (if applicable). If you are commenting on specific text, please include the location of the text (for example, a title, a table number, or a page number).



Printed in USA