



Fix pack FP411W-01 README for IBM Directory Server 4.1.1 Windows OS Server Installations



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Fix pack FP411W-01

Fix pack: FP411W-01

Date: September 27, 2002

IBM® Directory Server Version 4.1.1 (128-bit Encryption Server Installations)

General description

The Fix pack contains fixes for problems encountered in IBM Directory Server Version 4.1.1. The APAR number for the problem is listed in **Problems fixed**. Refer to the specific APAR for more detail.

For information on changes and fixes that occurred after the product documentation had been translated, see the *IBM Directory Server Version 4.1.1 for Windows NT and Windows 2000 README Addendum*. This file is in English only. This file can also be found on the IBM Directory Server Library Web page using a link from <http://www-3.ibm.com/software/network/directory/library>. You can get to the latest information here:
<http://www-3.ibm.com/software/network/directory/library/publications/411/addendum411.pdf>

Problems fixed

New fixes in FP411W-01

APAR IR48471 (CMVC 69870, 72520)

Potential deadlock if client sends many asynchronous operations without processing results

APAR IR49052 (CMVC 71036)

Normally the server will return attribute names in lowercase. Setting the server environment variable (or `ibm-slapdSetenv`) `IBMLDAP_ATTRCASE=YES` will cause explicitly requested attributes to be returned in the same case used in the search request, or in the case specified by the schema if no attributes are explicitly requested.

APAR IR48780 (CMVC 72035)

When Access Manager performs an authentication, it has been determined that there is a memory leak on each occurrence.

Memory leak in C client API: `ldap_explode_dn()`

APAR IR49264 (CMVC 72120)

Non-root `ldap_compare` of dn in group membership may return operations error (RC=1)

APAR IR49278 (CMVC 72209)

IBM LDAP Directory 4.1.0 does not do Ownership group resolution on rebind when application is reusing LDAP connection structure.

APAR IR49265 (CMVC 72403)

Remove harmless error message from error log: "Found an unknown attribute 'ibm-slapdVersion' in entry 'cn=Configuration'."

- APAR IR48604 (CMVC 72448, 73144)**
Add message to error log if a suffix violates schema definitions.
- APAR IR49260 (CMVC 72507)**
Potential segment violation when adding entries to slapd32.conf using libcfg32 API (extremely unlikely in releases prior to 5.1)
- APAR IR48427 (CMVC 72548)**
Slapd intermittently fails freeing entries.
- APAR IR49290 (CMVC 72573)**
Memory Leak doing search on system/restricted attributes (i.e. modifyTimeStamp)
- APAR IR49306 (CMVC 73019)**
LDAPUCFG db2idrop changes for Win DB2 Versions > 7.1.3
- APAR IR48600 (CMVC 73020)**
Unable to configure custom database in SP Node environment.
- APAR IR49261 (CMVC 73075)**
ACL cache continues to grow beyond ACLCAHESIZE limit. No error other than server uses more memory than expected.
- APAR IR48750 (CMVC 73165)**

ldap_create_page_control() and ldap_parse_page_control() does not work correctly in Directory 4.1.

C client API reports error 84 (Decoding error) performing paged or sorted search against iPlanet or Active Directory servers.
- APAR IR49323 (CMVC 73322)**
Client dies processing SHA encrypted userPassword value.
- APAR IR49262 (CMVC 73727)**
C client API may core (SEGV) under stress in wait4msg().
- APAR IR49263 (CMVC 73732)**
Multi-threaded C client API may deadlock
- APAR IR49329 (CMVC 73905)**
The LDAP client library abends when attempting to send a search request which includes an incorrectly structured filter composed of an imbalanced set of open and closed parentheses.
- APAR IR49214 (CMVC 74007, 74199, 75044)**
Exception from Sun JNDI parsing a SortResponseControl:
javax.naming.NamingException. Root exception is
com.sun.jndi.ldap.Ber\$DecodeException: Encountered ASN.1 tag 2
(expected tag 10)
- APAR IR48992 (CMVC 74084)**
Deleting a member from a group may cause all members to disappear if the group entry is flushed from cache, but they can be recovered by adding a member and restarting the server to rebuild the entry cache.
- APAR IR49268 (CMVC 74217)**
The server will hang if an entry and it's parent are added in the same transaction.
- APAR IR48958 (CMVC 74273)**
Server core if ldtrc on with an objectclass definition > 8KB long.

APAR IR48959 (CMVC 74333)

Remove harmless error message from error log:
"Attribute:ditStructureRules has one or more invalid matching rules
EQUALITY:2.5.13.29 SUBSTR: ORDERING: for
syntax:1.3.6.1.4.1.1466.115.121.1.17"

APAR IR49002 (CMVC 74551)

Target DN in changelog is all uppercase.

APAR IR49269 (CMVC 74642)

Client gets decoding error when reverse order sort key is not last sort key specified on the search.

APAR IR49270 (CMVC 74749)

Server allows mod_rdn where old & new dn are identical.

APAR IR49438 (CMVC 74877)

Performing a dynamic schema modification will terminate the server if changelog is enabled for that type of operation.

APAR IR49436 (CMVC 74885)

Potential memory leak in entry cache

APAR IR49434 (CMVC 74910)

ldapucfg -d fails w/ "db2idrop: command not found" (regression on Unix caused by fix for APAR IR48639)

APAR IR49433 (CMVC 74947)

Search fails when reverse sort key used by Sun Java client.

APAR IR49432 (CMVC 75077)

Changelog timestamp in local time

APAR IR49431 (CMVC 75101)

ldif2db hangs w/ mutex lock.

APAR IR49424 (CMVC 75157)

Partial fix for memory leaks in bulkload parse phase

Platforms

Microsoft® Windows NT® 4.0, Windows® 2000.

Dependencies

See the *IBM Directory Server Version 4.1.1 for Windows NT and Windows 2000 README Addendum* at <http://www-3.ibm.com/software/network/directory/library/publications/411/addendum411.pdf>

Files replaced or added by this Fix pack

With %INSTALL_DIR% representing the root of the LDAP installation, the files replaced are:

%INSTALL_DIR%/bin/bulkload.exe
%INSTALL_DIR%/bin/cfg32.dll
%INSTALL_DIR%/bin/db2ldif.exe
%INSTALL_DIR%/bin/ldap.dll
%INSTALL_DIR%/bin/ldif2db.exe
%INSTALL_DIR%/bin/libadmin.dll
%INSTALL_DIR%/bin/libback-rdbm.dll
%INSTALL_DIR%/bin/libcl.dll
%INSTALL_DIR%/bin/libDSP.dll
%INSTALL_DIR%/bin/libevent.dll
%INSTALL_DIR%/bin/libldapaudit.dll

```
%INSTALL_DIR%/bin/libldapkrb.dll
%INSTALL_DIR%/bin/libmessage.dll
%INSTALL_DIR%/bin/libslapi.dll
%INSTALL_DIR%/bin/libtranext.dll
%INSTALL_DIR%/bin/libtransys.dll
%INSTALL_DIR%/bin/libutils.dll
%INSTALL_DIR%/bin/miglen.exe
%INSTALL_DIR%/bin/runstats.exe
%INSTALL_DIR%/bin/slaped.exe
%INSTALL_DIR%/lib/ldap.lib
%INSTALL_DIR%/lib/ldapstatic.lib
%INSTALL_DIR%/bin/FP411W-01.txt
```

The default for INSTALL_DIR is C:\Program Files\IBM\LDAP.

Fix pack contents

The archive for this Fix pack is named FP411W-01.zip. The archive for this Fix pack includes:

- This README file
- The file /bin/bulkload.exe
- The file /bin/cfg32.dll
- The file /bin/db2ldif.exe
- The file /bin/ldap.dll
- The file /bin/ldif2db.exe
- The file /bin/libadmin.dll
- The file /bin/libback-rdbm.dll
- The file /bin/libcl.dll
- The file /bin/libDSP.dll
- The file /bin/libevent.dll
- The file /bin/libldapaudit.dll
- The file /bin/libldapkrb.dll
- The file /bin/libmessage.dll
- The file /bin/libslapi.dll
- The file /bin/libtranext.dll
- The file /bin/libtransys.dll
- The file /bin/libutils.dll
- The file /bin/miglen.exe
- The file /bin/runstats.exe
- The file /bin/slaped.exe
- The file /lib/ldap.lib
- The file /lib/ldapstatic.lib
- The file /bin/FP411W-01.txt

Applying the Fix pack

1. Extract the Fix pack contents into a scratch directory. Use an unzip utility for extraction.
2. For each of the master and slave server installations targeted to receive the Fix pack, make sure the servers are stopped prior to applying the Fix pack.
3. Replace the installed version of each file with the version included in the Fix pack.
 - a. Move the currently installed file to a location outside of the LDAP installation filesystem or rename the currently installed file. This prevents existing files from being overwritten by new files in the Fix pack.

Note: If this step is not done, then you cannot return to your pre-Fix pack state.

- b. Copy the extracted Fix pack files to the correct locations in the install folder. The install version locations for each file are:

```

%INSTALL_DIR%/bin/bulkload.exe
%INSTALL_DIR%/bin/cfg32.dll
%INSTALL_DIR%/bin/db2ldif.exe
%INSTALL_DIR%/bin/ldap.dll
%INSTALL_DIR%/bin/ldif2db.exe
%INSTALL_DIR%/bin/libadmin.dll
%INSTALL_DIR%/bin/libback-rdbm.dll
%INSTALL_DIR%/bin/libcl.dll
%INSTALL_DIR%/bin/libDSP.dll
%INSTALL_DIR%/bin/libevent.dll
%INSTALL_DIR%/bin/libldapaudit.dll
%INSTALL_DIR%/bin/libldapkrb.dll
%INSTALL_DIR%/bin/libmessage.dll
%INSTALL_DIR%/bin/libslapi.dll
%INSTALL_DIR%/bin/libtranext.dll
%INSTALL_DIR%/bin/libtransys.dll
%INSTALL_DIR%/bin/libutils.dll
%INSTALL_DIR%/bin/miglen.exe
%INSTALL_DIR%/bin/runstats.exe
%INSTALL_DIR%/bin/slapd.exe
%INSTALL_DIR%/lib/ldap.lib
%INSTALL_DIR%/lib/ldapstatic.lib
%INSTALL_DIR%/bin/FP411W-01.txt

```

Again, the default for INSTALL_DIR is C:\Program Files\IBM\LDAP.

4. At this point each of the replica and master servers can be started.

Confirming the Fix pack has been applied successfully

The Fix pack has been applied successfully if all files included in the Fix pack have replaced the pre-Fix pack files of the same names. If after applying the Fix pack the directory server cannot be restarted, or any other associated function is degraded, please notify IBM Directory Server support personnel.

Below is some relevant information on the replacement files:

```

- Filesize for bin/bulkload.exe      is 347634
- Filesize for bin/cfg32.dll         is 308533
- Filesize for bin/db2ldif.exe       is 211389
- Filesize for bin/ldap.dll          is 438963
- Filesize for bin/ldif2db.exe       is 209405
- Filesize for bin/libadmin.dll      is 230837
- Filesize for bin/libback-rdbm.dll  is 1006401
- Filesize for bin/libcl.dll         is 43594
- Filesize for bin/libDSP.dll        is 40089
- Filesize for bin/libevent.dll      is 54505
- Filesize for bin/libldapaudit.dll  is 42701
- Filesize for bin/libldapkrb.dll   is 51433
- Filesize for bin/libmessage.dll    is 84804
- Filesize for bin/libslapi.dll      is 95413
- Filesize for bin/libtranext.dll    is 35090
- Filesize for bin/libtransys.dll    is 190788
- Filesize for bin/libutils.dll      is 1347732
- Filesize for bin/miglen.exe        is 224164
- Filesize for bin/runstats.exe      is 199330
- Filesize for bin/slapd.exe         is 555292
- Filesize for lib/ldap.lib          is 232662
- Filesize for lib/ldapstatic.lib    is 1375928

```

The sum command is not native to the Windows operating systems. To obtain the sum information (if required) might involve use of a Unix operating system.

```

- sum -r bin/bulkload.exe      results are: 27527
- sum -r bin/cfg32.dll         results are: 41666
- sum -r bin/db2ldif.exe       results are: 56490
- sum -r bin/ldap.dll          results are: 49300

```

```

- sum -r bin/ldif2db.exe      results are: 34169
- sum -r bin/libadmin.dll     results are: 20346
- sum -r bin/libback-rdbm.dll results are: 11038
- sum -r bin/libcl.dll        results are: 62727
- sum -r bin/libDSP.dll       results are: 06783
- sum -r bin/libevent.dll     results are: 24288
- sum -r bin/libldapaudit.dll results are: 53374
- sum -r bin/libldapkrb.dll   results are: 46150
- sum -r bin/libmessage.dll   results are: 59748
- sum -r bin/libslapi.dll     results are: 17040
- sum -r bin/libtranext.dll   results are: 19752
- sum -r bin/libtransys.dll   results are: 18967
- sum -r bin/libutils.dll     results are: 17364
- sum -r bin/miglen.exe       results are: 47425
- sum -r bin/runstats.exe     results are: 12041
- sum -r bin/slapd.exe        results are: 64910
- sum -r lib/ldap.lib         results are: 06470
- sum -r lib/ldapstatic.lib   results are: 18805

```

Each xxxx represents the number of blocks used by the file. This number is filesystem format dependent.

The contents of the bin/FP411W-01.txt file are:

IBM Directory Release: aus411dap Build: 020906a



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