



Fix pack FP410S-02 README for IBM Directory Server 4.1 Solaris OS



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Fix pack FP410S-02

Fix pack: FP410S-02

Date: February, 2003

IBM® Directory Server Version 4.1 (128-bit Encryption Installations)

General description

The Fix pack contains fixes for problems encountered in IBM Directory Server Version 4.1. 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 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/v41/addendum41.pdf>

Problems fixed

New fixes in FP410S-02

APAR IR50600 (CMVC 76302)

Adding an entry with invalid dn syntax results in an entry field missing, and the attributes field is inadequate in the audit log.

APAR IR50453 (CMVC 75614)

A user has a plugin that creates its own threads, but the plugin causes the server to core because the IBM Directory Server slapi interface code assumes that all threads contain a be pointer in thread-specific memory. The pointer is used without checking for NULL.

APAR IR50493 (CMVC 75136)

Inconsistent decoding between {crypt},{SHA} vs {iMASK}.

APAR IR50501 (CMVC 77464)

A memory leak in search sort key list. Currently only the last sorted search frees the sort key.

APAR IR50374 (CMVC 77294)

Reaper must skip active connections. If the connection has an operation chained on it, the reaper must skip (not terminate) the connection.

APAR IR50440 (CMVC 77230)

Filter key memory leak. If the search filter generates a result set that is more than `ibm-slapdFilterCacheBypassLimit`, then the search filter key is lost.

APAR IR50387 (CMVC 75812)

There is an internal server error from Suffixes & Audit with SSL on.

Webadmin displays Internal Server Error (ldacgi SEGV) on Solaris. This problem occurs when viewing Suffixes or Audit Log if SSL is enabled and the kdb file is readable by user ldap.

APAR IR50274 (CMVC 76740)

When configuring LDAP on Solaris specifically (and Unix in general), the ldapcfg script does not check for the proper level of Java correctly.

APAR IR50302 (CMVC 77372)

ldap.dmtjavad.pkg: checkinstall: gskcheck: not found.

The checkinstall script for the 4.1 SPARC ldap.dmtjavad.pkg is malformed.

APAR IR50594 (CMVC 77432)

modrdn -r with different attributes and only one original can crash server. Have an entry that has an rdn that has only one value for the attribute and that attribute is not a required attribute.

APAR IR50532 (CMVC 77283)

Modify replace with null value that is not removing attribute (attribute to be determined).

APAR IR50523 (CMVC 77384)

This is the fix for the hang related to groups and ACL processing.

APAR IR50163 (CMVC 77398)

This is a performance enhancement.

APAR IR50528 (CMVC 77325)

Do not allow the server to start with a master dn that is the same as the admin DN.

APAR IR49941 (CMVC 77369)

Sorting and Paging with multiple attribute values returns multiple entries.

APAR IR50537 (CMVC 74717)

Unable to rebind after successful first bind.

Test run C program that attempts to do binds and searches with CRAM-MD5. First bind and search succeed. Second bind attempt fails.

APAR IR50439 (CMVC 75571)

The IBM Directory Server 4.1 bulkload utility has much slower performance than the 3.2.2 version when the -A option is set to **no**. Fix how bulkload processes the deprecated environment variables.

APAR IR50164 (CMVC 77444)

Bulkload fails with ldif files that are 2 GB and larger.

Add large file fix for server utilities, for example, db2ldif.

APAR IR50478 (CMVC 75227)

Member attributes are deleted after modrdn.

APAR IR50448 (CMVC 75796)

Cannot modify a referral object by chasing referral.

APAR IR50367 (CMVC 75785)

JNDI causes memory leaks with unbind.

The JNDI package passes the manageDSA control on unbind. This causes a memory leak in the server.

APAR IR50374 (CMVC 75853)

Server hangs on Work Queue.

Under heavy loads, the server deadlocks on the work queue.

APAR IR50367 (CMVC 75640)

Leak in PrintMessage.

There is a do_iconv_open call that uses a static pointer, so memory is allocated but never freed, thus leaking on every PrintMessage.

APAR IR50374 (CMVC 76550)

Retrofit Connection reaper.

Add reaper code in 5.1 to 4.1.

APAR IR99536 (CMVC 74502)

Bulkload failure with entry ldif file that is 1 MB.

APAR IR50428 (CMVC 77004)

ldapmodify accepts invalid DN - members.

APAR IR50499 (CMVC 76539)

Memory leak during ldapadd with change log enabled.

APAR IR50433 (CMVC 76147)

Memory leak while doing repeated ldapadd operations.

APAR IR50400 (CMVC 76149)

Leak during repeated ldapdelete with change log.

APAR IR50411 (CMVC 76754)

Memory leak while doing operations in transaction with Change Log.

APAR IR50374 (CMVC 72672)

Server hangs when transactions and searches on base DN cn=monitor are run simultaneously.

APAR IR49941 (CMVC 76629)

Webadmin is not working properly for complex searches.

APAR IR50542 (CMVC 72309)

Escape character (\) on jp win fails when adding suffix.

Escape character is not working when creating DN on WIN2000.

APAR IR50508 (CMVC 75032)

Directory code is trying to free the same memory twice.

APAR IR49892 (CMVC 77338)

ldif2db doesn't print out an error message when an entry has an attribute of type DN and this attribute does not meet the specifications of the Schema.

APAR IR50419 (CMVC 76926)

Memory leaks in paged ldapsearch.

Memory leak while doing search operation and paging.

APAR IR49941 (CMVC 77357)

Having multiple cn attributes for an entry is causing problems while sorting with paging.

APAR IR50487 (CMVC 75158)

Ldapsearch gives errors when windows client contacts Active directory server.

APAR IR50635 (CMVC 77431)

Directory Management Tool shows double quotes on DN containing slash.
Correct DMT handling of DIT entries containing forward slashes.

APAR IR50640 (CMVC 77698)

Fixed memory leaks in changelog processing.

APAR IR50645 (CMVC 77725, 77726, 77740)

Fixed bulkload performance issues relative to ACL src file handling and populating groups.

APAR IR50457 (CMVC 77575)

Attempts to alter an existing object without proper permissions can cause server to hang.

This problem can be avoided by controlling the access of the users in our application to functionality, they are allowed to perform.

If someone has modifying rights on a groupOfUniqueNames and is themselves a member of that group (group contains uniquemember-attribute with modifies dn), any attempt to modify the uniquemember-attribute (for example, add or remove members to or from this group) also leads to a hanging of the server.

APAR IR50464 (CMVC 77589)

Error Critical error: accept(22,...) encountered when doing extended searches of the change log while also searching the directory.

APAR IR50422 (CMVC 75622)

Escape character not allowed when using the Web Admin to create a Suffix DN containing a single character to be escaped (can be prefixed by a backslash ('¥' ASCII 92)). For instance, o=b\,c and "o=b,c". This problem occurs on WIN2999.

APAR IR50656 (CMVC 75512)

Error 116 received when configuring audit log using IBM Directory Server 4.1 WebAdmin

APAR IR50767 (CMVC 77714, 77908)

The LDAP server intermittently hangs/abends while under stress with multiple updates/searches.

Platforms

Solaris Operating Environment(TM) Software versions 7 and 8 or later.

Refer to the *IBM Directory Server Version 4.1 Installation and Configuration Guide for Multiplatforms*. for additional Fix pack requirements. See the IBM Directory 4.1 library at

<http://www-3.ibm.com/software/network/directory/library>

Dependencies

IBM Directory 4.1 must be installed.

DB2 Universal Database™ for Solaris Enterprise edition - version 7.1 with FixPak 3 or later (DB2®).

Fix pack contents

The archive for this Fix pack is named FP410S-02.tar.Z. The client install includes the following files:

File	bytes	sum -r
FP410S-02.filelist.client	230	20602
\$INSTALL_DIR/IBMldaps/bin/FP410S-02Readme.pdf	-----	-----
\$INSTALL_DIR/IBMldaps/bin/FP410S-02.txt	54	10798
\$INSTALL_DIR/IBMldapc/include/ldap.h	38150	15568
\$INSTALL_DIR/IBMldapc/include/slapi-plugin.h	11022	39221
\$INSTALL_DIR/IBMldapc/lib/libibmldap.so	1227172	02887
\$INSTALL_DIR/IBMldapc/lib/libibmldapn.so	956268	37675
\$INSTALL_DIR/IBMldapc/lib/libldapstatic.a	4134612	39556
\$INSTALL_DIR/IBMldapc/lib/libldapstaticn.a	3909340	50889

The DMT install includes the files in the client install plus the following:

File	bytes	sum -r
FP410S-02.filelist.DMT	251	62649
\$INSTALL_DIR/IBMldapc/bin/dmt.jar	1157208	41765

The server install includes the files in the DMT install plus the following:

File	bytes	sum -r
FP410S-02.filelist.server	956	35493
\$INSTALL_DIR/IBMldaps/bin/ldapcfg	16218	05036
\$INSTALL_DIR/IBMldaps/bin/slapd	1448492	30226
\$INSTALL_DIR/IBMldaps/bin/slapdn	1446388	29693
\$INSTALL_DIR/IBMldaps/lib/libadmin.so	219324	58210
\$INSTALL_DIR/IBMldaps/lib/libadmutls.so	124624	18748
\$INSTALL_DIR/IBMldaps/lib/libback-rdbm.so	2069076	42426
\$INSTALL_DIR/IBMldaps/lib/libcfg32_CC.so	1996084	60362
\$INSTALL_DIR/IBMldaps/lib/libcfg32_xlC.so	4961960	41941
\$INSTALL_DIR/IBMldaps/lib/libDSP.so	43292	34100
\$INSTALL_DIR/IBMldaps/lib/libevent.so	138172	18163
\$INSTALL_DIR/IBMldaps/lib/libibmldapcl.so	42548	25123
\$INSTALL_DIR/IBMldaps/lib/libldacfg.so	38940	62670
\$INSTALL_DIR/IBMldaps/lib/libldapaudit.so	65944	06031
\$INSTALL_DIR/IBMldaps/lib/libmessage.so	98852	40739
\$INSTALL_DIR/IBMldaps/lib/libslapi.so	162252	04674
\$INSTALL_DIR/IBMldaps/lib/libtranext.so	47216	24090
\$INSTALL_DIR/IBMldaps/lib/libtransys.so	243316	10469
\$INSTALL_DIR/IBMldaps/lib/libutils.so	5934784	32886
\$INSTALL_DIR/IBMldaps/lib/libutlsa.so	86044	64414
\$INSTALL_DIR/IBMldaps/sbin/bulkload	1086656	02794
\$INSTALL_DIR/IBMldaps/sbin/db2ldif	856420	19887
\$INSTALL_DIR/IBMldaps/sbin/ldif2db	868672	12363
\$INSTALL_DIR/IBMldaps/sbin/ltou	482492	58783
\$INSTALL_DIR/IBMldaps/sbin/migrate41	22243	51987
\$INSTALL_DIR/IBMldaps/sbin/runstats	831116	60317
\$INSTALL_DIR/IBMldaps/sbin/uto1	482492	24077
\$INSTALL_DIR/IBMldaps/web/cgi-bin/ldacgi3e.exe	2114224	22860
\$INSTALL_DIR/IBMldaps/web/cgi-bin/ldacgie.exe	6714220	43194

The default for \$INSTALL_DIR is /opt.

Applying the Fix pack

Note: Your replication environment must be cleaned or resynchronized, or both. See Chapter 7, "Replication," of the *IBM Directory Server Version 4.1: Administration Guide* at:

http://www-3.ibm.com/software/network/directory/library/publications/41/config/admin_gd.pdf

1. For each machine targeted to receive the fix pack, make sure any servers are stopped, and any client applications linked to the shared libraries (including DMT) are stopped. Programs and libraries cannot be replaced while they are in use.
2. Copy the fix pack archive (FP410S-02.tar.Z) to a directory with sufficient free space to hold both the archive and a backup of the patched files (in case you want to uninstall the fix pack). You need at least 75 MB for a full server install, less if patching a client only installation. Open a command prompt and type:

```
# su
# cd {directory where FP410S-02.tar.Z is}
# export INSTALL_DIR=/opt {or alternate IDS 4.1 install directory}
# export PATCH_DIR=`pwd`
# rm FP410S-02.filelist.*
```

All remaining steps use this command prompt.

3. Determine which packages are currently installed and extract the corresponding file list from the fix pack archive. At the command prompt type the following to determine which packages are installed:

```
# pkginfo | grep IBM1dap
```

- a. If the result includes **application IBM1daps IBM Directory Server**, then this is a server install. Extract FP410S-02.filelist.server from the archive and proceed to step 4. Do not attempt step 3b or 3c:

Note: Installing the server package also upgrades DMT and client.

```
# zcat FP410S-02.tar.Z | tar xf - FP410S-02.filelist.server
```

- b. If you do not have the server installed but do see **application IBM1dapdj IBM Directory DMT and Java** listed, then this is a DMT install. Extract FP410S-02.filelist.DMT from the archive and proceed to step 4. Do not attempt step 3c:

```
# zcat FP410S-02.tar.Z | tar xf - FP410S-02.filelist.DMT
```

- c. If you do not have the server or DMT installed, then this is a client install. Extract FP410S-02.filelist.client from the archive and proceed to step 4:

```
# zcat FP410S-02.tar.Z | tar xf - FP410S-02.filelist.client
```

4. This step is optional. Backup the existing files before applying the patch in case you need to uninstall the patch:

```
# cd $INSTALL_DIR
# tar cvf $PATCH_DIR/FP410S-02.UNDO.tar `cat $PATCH_DIR/FP410S-02.filelist.*`
# compress $PATCH_DIR/FP410S-02.UNDO.tar
```

5. Apply the fix pack:

```
# cd $PATCH_DIR
# mkdir tmp
# cd tmp
# zcat ../FP410S-02.tar.Z | tar xf - `cat ../FP410S-02.filelist.*`
# cp -r * $INSTALL_DIR
# cd ..
# rm -rf tmp
```

Uninstalling the fix pack

This can only be done if you made a backup before installing the fix pack (see step 4, above). If so, then you can uninstall the fix pack by deleting \$INSTALL_DIR/IBM1daps/bin/FP410S-02* and extracting \$PATCH_DIR/FP410S-02.UNDO.tar.Z:

```
# cd $INSTALL_DIR
# rm IBM1daps/bin/FP410S-02*
# zcat $PATCH_DIR/FP410S-02.UNDO.tar.Z | tar xf -
```

Confirming the Fix pack has been applied successfully

After installation, the file `$INSTALL_DIR/IBMldaps/bin/FP410S-02.txt` contains the following:

```
IBM Directory      Release: aus411dap  Build: 030211a
```

All the files listed in `$PATCH_DIR/FP410S-02.filelist.*` match the files sizes and checksums listed in “Fix pack contents” on page 4.



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