



**Fix pack FP410L-03 README for IBM
Directory Server 4.1 Linux i386
Installations**



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Fix pack FP410L-03

Fix pack: FP410L-03

Date: March, 2004

IBM® Directory Server Version 4.1

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 was translated, see the *IBM Directory Server Version 4.1 README Addendum*. The Addendum file is in English only and can also be found on the IBM Directory Server Library Web page:

http://publib.boulder.ibm.com/tividd/td/IBMDS/IDSadd41/en_US/PDF/addendum41.pdf

Problems fixed

New fixes in FP410L-03:

APAR IR50724 (CMVC 77615)

DNs containing extended ASCII characters return protocol error.

APAR IR53276 (CMVC 77836)

Server might freeze for a few minutes during high CPU usage when processing very long DN's.

APAR IR50766 (CMVC 77903)

accessRoles and accessGroup object classes can be modified to allow empty groups by changing member attribute from MUST to MAY.

APAR IR53277 (CMVC 77909)

Improve server startup time for large directories.

APAR IR50817 (CMVC 77930)

Server might crash (SEGV) if a compare operation is requested with a malformed entry DN.

APAR IR50935 (CMVC 78004)

ldif2db & db2ldif utilities might run out of memory because they do not turn off caches.

APAR IR50760 (CMVC 78067)

ibmslapd fails when anonymous user adds suffix entry immediately after configuration.

APAR IR52547 (CMVC 78067, 78158)

Server might temporarily hang during high CPU usage during abandon or unbind operations.

APAR IR52771 (CMVC 78123)

If cn=authenticated is defined in an ACL, and an anonymous search is performed, it is possible for the server to ABEND.

- APAR IR50998 (CMVC 78185)**
A bind with a long password (longer than 1000 bytes or characters) using SHA encryption might ABEND the server.
- APAR IR53278 (CMVC 78254)**
Potential memory leak when binding with password using SHA encryption.
- APAR IR53290 (CMVC 78444)**
IBM Directory Server crashes under heavy workload in multi-processor Linux environment.
- APAR IR52486 (CMVC 78495)**
If cn=authenticated is defined in an ACL, and an anonymous search is performed, it is possible for the server to ABEND.
- APAR IR53279 (CMVC 78768)**
Change logging class of Critical Accept Error.
- APAR IR53280 (CMVC 78770)**
Cannot stop server from Web Administration.
- APAR IR53280 (CMVC 78773)**
Sending an invalid attribute name starting with a digit [0-9] in an ldapadd or modify request will ABEND the server.
- APAR IR51166 (CMVC 78816)**
slapd fails if replicaObject is removed when replication is pending.
- APAR IR53289 (CMVC 78869)**
Performance on Solaris does not scale well with multiple processors.
- APAR IR51379 (CMVC 78919)**
slapd fails on MultiProcessor machine with Audit log on and many errors being written in parallel to slapd.errors file.
- APAR IR53297 (CMVC 79320)**
IBM Directory Server 4.1 might ABEND under stress on Solaris in multi-processor environment.
- APAR IR52418 (CMVC 79332, 82402)**
Bulkload fails to propagate ACLs with a large ldif file.
- APAR IR52503 (CMVC 79415)**
slapd hangs with most threads waiting for a lock in dn_cache.
- APAR IR51606 (CMVC 80117)**
Add warning message and entry in log file for mater DN = admin DN.
- APAR IR51713 (CMVC 80345)**
Replica gets UPPERCASE DN from Change table.
- APAR IR51974 (CMVC 81493)**
Server might core when receiving SASL bind from client with foreign characters in certificate DN.
- APAR IR52230 (CMVC 81762)**
C-API ldap_bind() with foreign characters in password might bind anonymously without returning an error to caller.
- APAR IR53296 (CMVC 81805)**
Invalid UTF-8 encoding in bind DN might cause server to ABEND.
- APAR IR51517 (CMVC 82216)**
Bulkload fails to propagate ACLs with a large ldif file.

APAR IR52963 (CMVC 82432)

Connection failure in C-client leaves Windows socket open in "LISTEN" state.

APAR IR52692 (CMVC 82822)

ldacgi can be used to view, but not change, any file readable by user **ldap** on the host system.

APAR IR53293 (CMVC 82889)

Memory leaks in the client C-API when chasing referrals.

APAR IR52841 (CMVC 82973)

Scripting code passed as an invalid cgi parameter is not sanitized in resulting "IException" message. Identified in BugTraq ID: 9140 (see <http://www.securityfocus.com/bid/9140>).

APAR IR51924 (CMVC 83273)

Do not include administrator DN in results of anonymous root DSE search.

APAR IR52690 (CMVC 83310)

Replica reconnect interval (5sec/5min) not consistent.

APAR IR53161 (CMVC 83628)

4.1 FP2 slapd will ABEND at startup if administrator DN or password are not configured.

Dependencies

IBM Directory Server 4.1 must be installed.

Fix pack contents

The archive for this fix pack is named FP410L-03.tar and contains the following files:

File	bytes	cksum	sum -r
FP410L-03/FP410L-03Readme.pdf	-----	-----	-----
FP410L-03/install_update.sh	3625	1371210680	20852
FP410L-03/uninstall_update.sh	1466	3254931160	28112
FP410L-03/data/all_files.list	707	3355171625	59259
FP410L-03/data/patch.tar.gz	-----	-----	-----

The client install includes the following files:

File	bytes	cksum	sum -r
/usr/ldap/bin/FP410L-03Readme.pdf	-----	-----	-----
/usr/ldap/bin/FP410L-03.txt	54	498286856	01071
/usr/ldap/bin/ldapdelete	44027	835730149	41543
/usr/ldap/bin/ldapmodify	104012	2597553891	63496
/usr/ldap/bin/ldapmodrdn	45471	2457321752	46744
/usr/ldap/bin/ldapsearch	112914	392240450	39056
/usr/ldap/examples/ldapsearch.c	45578	1729847414	17813
/usr/ldap/include/ldap.h	38150	1699589595	46090
/usr/ldap/include/slapi-plugin.h	11022	4153906964	56181
/usr/ldap/lib/ldap_plugin_sasl_cram-md5.so	50704	1990371412	54201
/usr/ldap/lib/libibldap.so	1067179	1244826553	56666
/usr/ldap/lib/libibldapn.so	1015468	2899224515	47936
/usr/ldap/lib/libldapstatic.a	3399308	1771952615	13672
/usr/ldap/lib/libldapstaticn.a	3229232	1979807355	53085

A DMT & Java install adds or updates everything in the client install in addition to the following file:

File	bytes	cksum	sum -r
/usr/ldap/bin/dmt.jar	1157199	3008622259	40116

A server install adds or updates everything in the client install in addition to the following files:

File	bytes	cksum	sum -r
/usr/ldap/bin/ldapcfg	16210	210322405	39747
/usr/ldap/bin/slapd	2512474	3187076450	19361
/usr/ldap/bin/slapdn	2499698	482745775	08310
/usr/ldap/config/LDAPCfg.jar	238643	302928737	32540
/usr/ldap/lib/libadmin.so	676862	3511023428	45444
/usr/ldap/lib/libback-rdbm.so	3764988	1891389000	27269
/usr/ldap/lib/libcfg32.so	2754448	3473894906	10225
/usr/ldap/lib/libDSP.so	179118	3037200080	40314
/usr/ldap/lib/libevent.so	279164	3726716867	52333
/usr/ldap/lib/libibmldapcl.so	171393	1035782475	38271
/usr/ldap/lib/libldacfg.so	161616	2702978466	07406
/usr/ldap/lib/libldapaudit.so	197658	2278377811	62360
/usr/ldap/lib/libmessage.so	218240	3069299467	22342
/usr/ldap/lib/libslapi.so	402390	2627543658	10221
/usr/ldap/lib/libtranext.so	279156	105110044	26602
/usr/ldap/lib/libtransys.so	1098406	1220517584	06641
/usr/ldap/lib/libutils.so	6506374	1143444451	05322
/usr/ldap/lib/libutlsa.so	149618	3575433717	63538
/usr/ldap/sbin/bulkload	1464466	153022362	38739
/usr/ldap/sbin/db2ldif	1034092	4152438771	54231
/usr/ldap/sbin/ldif	68133	2503654355	45528
/usr/ldap/sbin/ldif2db	1079363	460428685	54987
/usr/ldap/sbin/ltou	112317	3887587821	11042
/usr/ldap/sbin/migrate41	22243	3204062908	36089
/usr/ldap/sbin/runstats	1009864	263497613	52065
/usr/ldap/sbin/stripldif	153926	1344071536	49473
/usr/ldap/sbin/uto1	112324	2493137665	49555
/usr/ldap/web/en_US/config/tuning.htm	63926	1883778253	49204
/usr/ldap/web/en_US/config/tuning.pdf	161952	3069025280	59376

Applying the fix pack

1. Extract the FP410L-03.tar file to a directory with at least 60 MB of free space. This creates a new directory named FP410L-03 that contains the following files and subdirectories:

```
install_update.sh
uninstall_update.sh
FP410L-03Readme.pdf
data/
```

2. Log in as root.
3. Stop all IBM Directory Server client or server processes, including the LDAP server, Web administration and directory management tools. Programs and libraries cannot be replaced while they are in use.
4. Run the following command from the FP410L-03 subdirectory:

```
install_update.sh
```

Note: The install_update script saves a backup of your previous version of IBM Directory Server in the data subdirectory. Do not remove the data subdirectory if you intend to uninstall the update.

Uninstalling the fix pack

To uninstall the fix pack:

1. Log in as root.
2. Stop all IBM Directory Server client or server processes, including the LDAP server, Web administration and directory management tools. Programs and libraries cannot be replaced while they are in use.
3. Run the following command from the FP410L-03 subdirectory:
uninstall_update.sh

Confirming the fix pack has been applied successfully

After installation, the file /usr/ldap/bin/FP410L-03.txt contains the following:

IBM Directory Release: aus41ldap Build: 040308a

Functionality/Behavior Impact

Changes in the functionality or behavior of IBM Directory Server after upgrading to this fix pack:

APAR	Impact			Description
	Low	Medium	High	
IR50766		✓		The server allows schema modification of the objectClasses accessGroup and accessRole .
IR53277	✓			A server with a large directory takes less time to start.
IR53279	✓			The message: Critical error: accept(... is no longer logged if log level is set to low (terse).
IR53289	✓			Performance is improved for multiprocessor Solaris environments.
IR51606		✓		The server no longer allows the master DN for replication to be the same as the administrator DN.
IR51713			✓	Before this fix, if a 4.1 master or peer was started with add operations pending for replication, they were replicated with the entry DN converted to all uppercase.
IR51924	✓			The server no longer returns ibm-adminID (administrator DN) in the results of a root DSE search.

IR52690	✓		<p>A master server no longer attempts to connect to it's replicas immediately at startup; a master server attempts to connect to it's replicas only when there are changes to send (schedule permitting). When attempting to connect to a replica or peer, the server no longer logs a failure message on every attempt; the server logs a failure message on the first failure and once every hour while attempting to connect to a replica or peer. After the first failure, the server waits 5-10-20-40-60 seconds between the first 5 reconnect attempts, and then continues trying to connect every 60 seconds until reconnected.</p>
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