



Fix pack FP410H-03 README for IBM Directory Server 4.1 for HP-UX



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Fix pack FP410H-03

Fix pack: FP410H-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 FP410H-03:

APAR IR50724 (CMVC 77615)

DNs containing extended ASCII characters return protocol error.

APAR IR53276 (CMVC 77836)

Server might freeze for a few minutes with 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 FP410H-03.tar and contains the following files:

File	bytes	cksum	sum -r
FP410H-03/FP410H-03Readme.pdf	-----	-----	-----
FP410H-03/install_update.sh	3635	1292301815	36957
FP410H-03/uninstall_update.sh	1486	768885338	09037
FP410H-03/data/all_files.list	691	2273877639	22012
FP410H-03/data/patch.tar.Z	-----	-----	-----

The client install includes the following files:

File	bytes	cksum	sum -r
/usr/IBMldap/bin/FP410H-03Readme.pdf	-----	-----	-----
/usr/IBMldap/bin/FP410H-03.txt	54	498286856	01071
/usr/IBMldap/bin/ldapdelete	72464	26999660	33414
/usr/IBMldap/bin/ldapmodify	93392	1357101286	12778
/usr/IBMldap/bin/ldapmodrdn	77104	1574650028	44600
/usr/IBMldap/bin/ldapsearch	101920	1309684936	43156
/usr/IBMldap/examples/ldapsearch.c	45578	1729847414	17813
/usr/IBMldap/include/ldap.h	38150	1699589595	46090
/usr/IBMldap/include/slapi-plugin.h	11022	4153906964	56181
/usr/IBMldap/lib/ldap_plugin_sasl_cram-md5.sl	57232	1768104831	65302
/usr/IBMldap/lib/libibldap.sl	1150712	2085436908	47422
/usr/IBMldap/lib/libibldapn.sl	1090616	1255745984	07248
/usr/IBMldap/lib/libldapstatic.a	1522004	177525440	22216
/usr/IBMldap/lib/libldapstaticn.a	1448424	4265201783	49811

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

File	bytes	cksum	sum -r
/usr/IBMDap/bin/ldapcfg	16216	3121803144	55899
/usr/IBMDap/bin/slapd	2483072	3249053144	07561
/usr/IBMDap/bin/slapdn	2146128	1562944168	35543
/usr/IBMDap/lib/libadmin.sl	399176	2344170868	17642
/usr/IBMDap/lib/libback-rdbm.sl	3712096	860106881	25886
/usr/IBMDap/lib/libcfg32.sl	1738776	3251946483	29559
/usr/IBMDap/lib/libDSP.sl	68952	3986702513	03558
/usr/IBMDap/lib/libevent.sl	212816	2056540348	16655
/usr/IBMDap/lib/libibmdapcl.sl	105960	3923181853	31304
/usr/IBMDap/lib/liblber.sl	130248	1270515961	57395
/usr/IBMDap/lib/libldapaudit.sl	107376	339818231	21376
/usr/IBMDap/lib/libmessage.sl	119216	2575103531	27899
/usr/IBMDap/lib/libslapi.sl	210240	2647802251	20965
/usr/IBMDap/lib/libtranext.sl	251344	3853554537	12221
/usr/IBMDap/lib/libtransys.sl	546728	3826652894	44424
/usr/IBMDap/lib/libutils.sl	4939552	3160811454	28227
/usr/IBMDap/lib/libutlsa.sl	113280	2608661766	29466
/usr/IBMDap/lib/libwebutil.sl	22288	2700521806	02350
/usr/IBMDap/config/LDAPCFG.jar	110645	3854647181	23676
/usr/IBMDap/sbin/bulkload	890512	441220188	18337
/usr/IBMDap/sbin/db2ldif	610752	1781724045	41006
/usr/IBMDap/sbin/ldif	36448	2928922086	49319
/usr/IBMDap/sbin/ldif2db	624520	284746236	61434
/usr/IBMDap/sbin/ldtrc	218440	2511420262	53537
/usr/IBMDap/sbin/ltou	34312	1588299743	36339
/usr/IBMDap/sbin/runstats	579944	2270721248	28497
/usr/IBMDap/sbin/utol	34312	4232117126	55252
/usr/IBMDap/web/en_US/config/tuning.htm	63926	1883778253	49204
/usr/IBMDap/web/en_US/config/tuning.pdf	161952	3069025280	59376

Applying the fix pack

1. Extract the FP410H-03.tar file to a directory with at least 50 MB of free space. This creates a new directory named FP410H-03 that contains the following files and subdirectories:

```
install_update.sh
uninstall_update.sh
FP410H-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 FP410H-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 FP410H-03 subdirectory:

Confirming the fix pack has been applied successfully

After installation, the file /usr/IBMDap/bin/FP410H-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	✓			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.



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