



Fix pack FP410S-03 README for IBM Directory Server 4.1 Solaris OS Server Installations



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Fix pack FP410S-03

Fix pack: FP410S-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 FP410S-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 DNs.

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 FP410S-03.tar and contains the following files:

File	bytes	cksum	sum -r
FP410S-03/FP410S-03Readme.pdf	-----	-----	-----
FP410S-03/install_update.sh	3601	2145594971	65339
FP410S-03/uninstall_update.sh	1486	4162696497	60268
FP410S-03/data/all_files.list	1399	1048334463	17758
FP410S-03/data/patch.tar.Z	-----	-----	-----

The client install includes the following files:

File	bytes	cksum	sum -r
/opt/IBMldapc/bin/FP410S-03Readme.pdf	-----	-----	-----
/opt/IBMldapc/bin/FP410S-03.txt	54	498286856	01071
/opt/IBMldapc/bin/ldapdelete	29004	2847504351	51313
/opt/IBMldapc/bin/ldapmodify	61376	3945681703	17366
/opt/IBMldapc/bin/ldapmodrdrn	30540	1510523607	44886
/opt/IBMldapc/bin/ldapsearch	69020	2172665740	41273
/opt/IBMldapc/examples/ldapsearch.c	45578	1729847414	17813
/opt/IBMldapc/include/ldap.h	38150	1699589595	46090
/opt/IBMldapc/include/slapi-plugin.h	11022	4153906964	56181
/opt/IBMldapc/lib/ldap_plugin_sasl_cram-md5.so	35564	2833029641	28933
/opt/IBMldapc/lib/libibldap.so	1231368	1758855694	45991
/opt/IBMldapc/lib/libibldapn.so	959412	4281635293	28425
/opt/IBMldapc/lib/libldapstatic.a	4142160	2649093964	46169
/opt/IBMldapc/lib/libldapstaticn.a	3915172	269171533	60695

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

File	bytes	cksum	sum -r
/opt/IBMDapc/bin/dmt.jar	1157208	1070853961	27577

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

File	bytes	cksum	sum -r
/opt/IBMDaps/bin/ldapcfg	16218	2684546697	64223
/opt/IBMDaps/bin/slapd	1528024	1157783010	27720
/opt/IBMDaps/bin/slapdn	1525996	1515923871	40874
/opt/IBMDaps/bin/task_dbback	493284	2001113184	05297
/opt/IBMDaps/bin/task_dbrestore	494328	1709790102	30143
/opt/IBMDaps/bin/proxy	17928	2468968738	08719
/opt/IBMDaps/bin/ldav3cd	15384	725379874	59238
/opt/IBMDaps/bin/ldav3ce	15364	3673857411	24605
/opt/IBMDaps/config/LDAPCfg.jar	238653	1918389053	57105
/opt/IBMDaps/lib/libadmin.so	219332	435585687	31436
/opt/IBMDaps/lib/libadmutls.so	124644	1563651438	51683
/opt/IBMDaps/lib/libback-rdbm.so	2069424	1246715073	18592
/opt/IBMDaps/lib/libcfg32_CC.so	1996084	4162627988	27699
/opt/IBMDaps/lib/libcfg32_xlC.so	4961960	442139901	51740
/opt/IBMDaps/lib/libDSP.so	43292	1490009714	64016
/opt/IBMDaps/lib/libevent.so	138188	210355155	18096
/opt/IBMDaps/lib/libibmdapcl.so	42548	4152130897	61426
/opt/IBMDaps/lib/libldacfg.so	38940	540923487	20904
/opt/IBMDaps/lib/libldapaudit.so	65968	2747301026	27973
/opt/IBMDaps/lib/libmessage.so	99380	1967187276	59728
/opt/IBMDaps/lib/libproxz.so	22496	3261756106	35901
/opt/IBMDaps/lib/libslapi.so	162864	2720287409	37451
/opt/IBMDaps/lib/libtranext.so	47216	1817313026	32723
/opt/IBMDaps/lib/libtransys.so	243316	3847294043	31852
/opt/IBMDaps/lib/libutils.so	5935284	1925731394	46543
/opt/IBMDaps/lib/libutlsa.so	86044	1824595211	16880
/opt/IBMDaps/lib/libwebutil.so	11504	1543087078	31665
/opt/IBMDaps/sbin/bulkload	1091104	4196868867	19524
/opt/IBMDaps/sbin/db2ldif	857764	4159843428	17796
/opt/IBMDaps/sbin/dbcheck	524368	486140573	23846
/opt/IBMDaps/sbin/ldif	19456	3514348432	54307
/opt/IBMDaps/sbin/ldif2db	870176	174741327	15189
/opt/IBMDaps/sbin/ltou	482492	3949774415	51593
/opt/IBMDaps/sbin/migrate41	22243	3204062908	36089
/opt/IBMDaps/sbin/runstats	832452	2478035046	47856
/opt/IBMDaps/sbin/stripldif	494436	758914968	13123
/opt/IBMDaps/sbin/uto1	482492	668025382	00233
/opt/IBMDaps/web/cgi-bin/ldacgie.exe	6736840	2689822198	42047
/opt/IBMDaps/web/cgi-bin/ldacgi3e.exe	2136612	3906858843	41507
/opt/IBMDaps/web/en_US/config/tuning.htm	63926	1883778253	49204
/opt/IBMDaps/web/en_US/config/tuning.pdf	161952	3069025280	59376

Applying the fix pack

1. Extract the FP410S-03.tar file to a directory with at least 80 MB of free space. This creates a new directory named FP410S-03 that contains the following files and subdirectories:

```

install_update.sh
uninstall_update.sh
FP410S-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.

- Run the following command from the FP410S-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:

- Log in as root.
- 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.
- Run the following command from the FP410S-03 subdirectory:
uninstall_update.sh

Confirming the fix pack has been applied successfully

After installation, the file /opt/IBMldapc/bin/FP410S-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 its replicas immediately at startup; a master server attempts to connect to its 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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