



FixPak FP510A-01 README for IBM Directory Server 5.1 AIX



FixPak FP510A-01 README for IBM Directory Server 5.1 AIX

Contents

FixPak FP510A-01	1	FixPak contents	4
General description	1	Applying the FixPak.	6
Problems fixed.	1	Uninstalling the FixPak.	8
Dependencies	4	Confirming the FixPak has been applied successfully	8

FixPak FP510A-01

FixPak: FP510A-01

Date: April, 2003

IBM® Directory Server Version 5.1

General description

The FixPak contains fixes for problems encountered in IBM Directory Server Version 5.1. 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 5.1 README Addendum*. The Addendum file is in English only and can also be found on the IBM Directory Server Library Web page:

<ftp://ftp.software.ibm.com/software/network/directory/library/v51/addendum51.pdf>

Problems fixed

New fixes in FP510A-01:

APAR IR50993 (CMVC 75622)

Allow DN like: cn="www.youhoo.com, (C)"

Fixed a problem preventing the addition of DNs than have a comma in them.

APAR IR50961 (CMVC 77303)

Server memory fault on Linux under stress

The server exits after many stress test scenarios with infinite loops to stress the server and change log enabled.

APAR IR50962 (CMVC 77553)

Master server hangs after restarting replica if ibmslapd has left tables locked that it needs to read.

APAR IR50987 (CMVC 77575)

Hang when bind DN in group being modified

Server hangs when attempting to modify group that user is a member of and does not have perm to modify.

APAR IR50988 (CMVC 77589)

IDS server becomes unresponsive

This problem is encountered when multiple asynchronous operations are performed on a single client connection, causing deadlocks on the server.

APAR IR50963 (CMVC 77605)

Replication DIT constraints do not work

An ibm-replicationGroup can be created under any objectclass (other than the ibm-replication context objectclass), but once the other replication topology objects get added to the database without having a proper

replication context object created first, the server can't start the next time if the server/context happens to be a Master server.

APAR IR50992 (CMVC 75615)

DNs containing extended ASCII return protocol error

Protocol error occurs when handling multi-byte characters are improperly truncated at the end of a buffer.

APAR IR50991 (CMVC 77673)

Double ber_free() in search.c traps windows client

APAR IR50990 (CMVC 77714)

Memory leak in filterkey when stressed

When concurrent updates and searches are run, the slapd server can leak the filterkey and the idl list if the filter cache has just been flushed.

APAR IR50989 (CMVC 77725)

bulkload: Performance issues wrt acl src table

APAR IR50965 (CMVC 77756)

Password cannot be modified if adding bad ibm-filteraclentry value

An attempt to add an entry with an invalid ibm-filteraclentry value (left out the filter part) results in an "Error, Password cannot be modified" message.

APAR IR50966 (CMVC 77757)

Deleting a subtree of an object that does not exist (parent does) returns an "Unwilling to perform" error

APAR IR50967 (CMVC 77778)

Allow an escaped # anywhere in the value of a DN

APAR IR50968 (CMVC 77792)

Nested grp code not detecting groupOfURLs type

APAR IR50969 (CMVC 77824)

Check for null password in replication bind w/GSSAPI

In the event that there is a ibm-replicaCredentials entry that contains the replicaBindDN attribute, but not the ibm-replicaCredentials attribute, errors appear in the server's error log.

APAR IR50972 (CMVC 77836)

Server freezes for several minutes during Denial of Service Tests

With certain Denial of Service tests, CPU utilization shoots up at 100% when the server processes certain DN's in a tight loop.

APAR IR50971 (CMVC 77857)

Dynamic update with scope entire may cause server to crash

APAR IR50973 (CMVC 77908)

Server core due to freeing fkey/fidl/idl in rdbm_search_cache.cpp

APAR IR50974 (CMVC 77909)

Improve server startup time

Use "SELECT EID FROM LDAPDB2.SRC WHERE OWNSRC<>-1 OR (ACLSRC<>-1 AND ACLSRC<>-2) FETCH FIRST 2 ROWS ONLY"; instead of "SELECT COUNT(*)..." in AclsDefinedinDB() in acltables.cpp to reduce server startup time.

- APAR IR50975 (CMVC 77972)**
Replication changes may not be processed in order received
- APAR IR50976 (CMVC 78004)**
Server cores when running `ldif2db`

The `ldif2db` and `db2ldif` utilities do not turn off the caches. This is causing `ldif2db` to crash on AIX® because the process eventually runs out of memory.
- APAR IR50977 (CMVC 78029)**
Server crashes on startup if referrals are defined
- APAR IR50978 (CMVC 78043)**
Schema changes are not recorded under changelog
- APAR IR50979 (CMVC 78061)**
`ldapsearch` fails with Out of Memory
- APAR IR50980 (CMVC 78083)**
Hung server during abandon/unbind operations
- APAR IR50981 (CMVC 78123)**
Server traps if cn=authenticated in ACL
- APAR IR50982 (CMVC 78195)**
Segmentation error occurs while adding replication agreement
- APAR IR51067 (CMVC 78444)**
slapd process intermittently abends under stress with multiple reads/updates to entries over 40 KB
- APAR IR51117 (CMVC 78037)**
`ldif2db` does not load all data
- APAR IR51118 (CMVC 78204)**
Editing replica agreement does not replicate in master forwarder replica
- APAR IR51119 (CMVC 78254)**
Memory leak in `rdbm_pwd.cpp` for SHA
- APAR IR51121 (CMVC 78325)**
Replace on `ldapmodify` fails when attribute does not exist
- APAR IR51122 (CMVC 78337)**
`AddModifyChangeEntry` leaks memory
- APAR IR51126 (CMVC 78378)**
`ldapmodify` deadlocks
- APAR IR51065 (CMVC 78367)**
`ldif2db` does not work if it contains `pwdpolicy` attributes
- APAR IR51067 (CMVC 78444)**
Core doing search/updates on Linux with multi-processor machine
- APAR IR51154 (CMVC 78285)**
Unable to re-add a replication agreement after deletion
- APAR IR51177 (CMVC 78397)**
`ldapsearch` fails to return DBCS characters
- APAR IR51179 (CMVC 78144)**
`newExtednedOP` adds null extop to list in error condition

APAR IR57780 (CMVC 78468)

Memory leaks in front end ber extended operations

APAR IR51181 (CMVC 78191)

ldapdelete unable to delete subtree from master

APAR IR51182 (CMVC 78277)

Server traps while modifying a schedule object

Dependencies

IBM Directory Server 5.1 must be installed.

FixPak contents

The archive for this FixPak is named FP510A-01.tar and contains the following files:

File	bytes	sum -r
=====	=====	=====
FP510A-01Readme.pdf	-	-
UPDATES/.toc	2778	30732
UPDATES/ldap.client.adt.bff	226304	44647
UPDATES/ldap.client.rte.bff	2876416	24441
UPDATES/ldap.max_crypto_client.rte.bff	927744	34868
UPDATES/ldap.max_crypto_server.com.bff	1158144	04737
UPDATES/ldap.max_crypto_webdadmin.bff	11886592	34517
UPDATES/ldap.server.cfg.bff	24576	27842
UPDATES/ldap.server.com.bff	20953088	46610
UPDATES/ldap.server.rte.bff	6549504	26576
UPDATES/ldap.webdadmin.bff	12412928	47328
UPDATES.list	300	54203
installFixPak.sh	3793	03301
rejectFixPak.sh	2163	18498
updateWebAdmin.sh	1022	27884

The client install includes the following files:

File	bytes	sum -r
=====	=====	=====
bin/FP510A-01.txt	55	56601
bin/ibmdirctl	29436	51614
bin/ldamsg	17029	60246
bin/ldapchangepwd	36498	64933
bin/ldapdelete	33683	31307
bin/ldapexop	82975	21029
bin/ldapmodify	76824	20114
bin/ldapmodrdn	34199	11534
bin/ldapsearch	84206	35458
examples/ldapchangepwd.c	30414	62655
examples/ldapdelete.c	26547	63942
examples/ldapmodify.c	56577	10665
examples/ldapmodrdn.c	29118	16725
examples/ldapsearch.c	59018	53079
examples/makefile.ex	3400	19675
examples/sample.ldif	17338	32229
include/audit-plugin-list.h	2010	16334
include/audit-plugin.h	11964	45154
include/lber.h	1633	62011
include/ldap.h	48303	31465
include/ldaplocale.h	5142	50698
include/ldapssl.h	17949	17290
include/ldif.h	4336	46572
include/slapi-plugin.h	11865	27914
lib/aix5/ldap_plugin_sasl_cram-md5_64.a	5935	26280
lib/aix5/libibmldap64n.a	516261	56374

lib/aix5/libldapconv64.a	6719	20776
lib/aix5/libldapstatic.a	1418138	02785
lib/aix5/libldif.a	53242	01388
lib/ldap_plugin_ibm_gsskrb.a	31985	37525
lib/ldap_plugin_sasl_cram-md5.a	5343	31365
lib/ldap_plugin_sasl_cram-md5_64.a	5935	10808
lib/libldapconv.a	6038	22253
lib/libldapconv64.a	6739	04850
lib/libldapstatic.a	764753	15711
lib/libldapstatic.a	724483	46424
lib/libldif.a	53192	27801

The Web Administration install includes the following files:

File	bytes	sum -r
=====	=====	=====
bin/FP510A-01.txt	55	56601
idstools/DSML.zip	711844	39323
idstools/IDSWebApp.war	11881351	30921
idstools/noss1/IDSWebApp.war	11695656	00768

The server install includes the following files:

File	bytes	sum -r
=====	=====	=====
bin/FP510A-01.txt	55	56601
bin/ibmslapd	986103	61829
bin/ibmslapdn	986041	07941
bin/dbback	45840	22454
bin/dbrestore	46544	20247
bin/ibmdiradm	667588	64967
bin/ibmdiradm	660044	62585
bin/IDSproxyExe	25283	25702
bin/ldapdiff	27704	48105
bin/ldapdiff.jar	125742	01272
bin/ldapucfg	27704	14283
bin/ldapxcfg	30089	49608
bin/ldapcfg	27703	33447
config/config/OpNav.Java.Application.ser	635	29664
config/console_runtime/jhall.jar	376756	34639
config/console_runtime/jopnav.jar	520307	64847
config/console_runtime/jopnavfw.jar	299931	14825
config/console_runtime/jt400.jar	3429383	57128
config/console_runtime/jui400.jar	571584	02860
config/console_runtime/op.jar	978445	64559
config/console_runtime/settings/idsconsoleapp.jreg	205	10381
config/console_runtime/uitools.jar	1005270	12143
config/console_runtime/util400.jar	290012	40038
config/console_runtime/x4j400.jar	1803877	33231
config/csa_runtime/auijbase.jar	285493	28704
config/csa_runtime/auijfw.jar	318679	58459
config/csa_runtime/auij18n.jar	309063	29133
config/csa_runtime/auijswing.jar	472971	14393
config/csa_runtime/jhall.jar	402270	52882
config/csa_runtime/settings/data.properties	535	26517
config/csa_runtime/settings/framework.properties	785	63995
config/csa_runtime/settings/registry.properties	732	09846
config/csa_runtime/settings/trace.properties	425	51192
config/csa_runtime/swing11spinner_Runtime.jar	161875	00481
config/csa_runtime/uil.jar	1117025	26287
config/csa_runtime/xerces.jar	1803877	33231
config/IDSConfig.jar	2907719	52796
lib/libback-config.a	89600	09416
lib/libback-rdbm.a	1752730	17866
lib/libcfg32.a	2878145	30295
lib/libdbadmin.a	161155	32850
lib/libDSP.a	26596	12810
lib/libevent.a	92053	12906

lib/libibldap.a	591096	24595
lib/libibldap64n.a	516045	04685
lib/libibldapcl.a	51846	53121
lib/libibldapn.a	558186	31064
lib/libIDSProxyDll.a	16359	26803
lib/libldacfg.a	84566	34157
lib/libldapaudit.a	52025	07615
lib/libloga.a	42748	42961
lib/libmessage.a	89630	34672
lib/libslapi.a	98883	56375
lib/libtranext.a	266373	50469
lib/libtransys.a	330011	54841
lib/libtrc.a	42055	13555
lib/libutils.a	2681493	09815
lib/libutlsa.a	65899	18056
lib/libldapjrt.a	28639	35249
lib/libldapkrb.a	58490	04014
lib/libldaprepl.a	616310	59061
sbin/bulkload	672076	41254
sbin/cfgmodify	60205	23774
sbin/db2ldif	507979	36631
sbin/ldif	41918	03830
sbin/ldif2db	499733	13493
sbin/ldtrc	115209	60571
sbin/ltou	31095	03014
sbin/migrate51	34037	38236
sbin/rc.ibmdir	1304	49489
sbin/runscript	8126	35037
sbin/runstats	457881	01945
sbin/Schema.jar	2141323	59378
sbin/SchemaMigrate.jar	42639	61042
sbin/uto1	31096	58482

Applying the FixPak

You need at least 270 MB for a full server install, less if patching a client only installation.

Attention: Do not commit the FixPak install unless you are certain that you will never need to restore the previous software level. Committing the install deletes the backup files of the previous version. The only reason to commit the install is to recover the disk space used for the backup files.

If you are sure you want to commit the filesets after applying, you can do so by executing the same script with the `-c` option:

```
# installFixPak.sh -c
```

Just remember that if you install the fix this way, all update filesets will automatically commit. After you have committed the fix, the only way to back out of the fix is to uninstall and re-install the product.

To apply the FixPak:

1. For each machine targeted to receive the FixPak, make sure any servers are stopped, and any client applications linked to the shared libraries (including Web Administration) are stopped. Programs and libraries cannot be replaced while they are in use.

Note: After stopping the clients and server, you must run `slibclean` to unload shared libraries from memory before they can be replaced.

2. Copy the FixPak archive file (FP510A-01.tar) to a directory with sufficient free disk space to hold the archive file. Open a command prompt and type:

Note: All remaining steps use this command prompt.

```
# su
# ksh
# slibclean
# cd {directory where FP510A-01.tar is}
# export PATCH_DIR=`pwd`
# tar -xvf FP510A-01.tar
```

Note: After untarring the archive, you must have the following subdirectory and files:

- FP510A-01.Readme.pdf (install FixPak readme file)
- UPDATES (directory holding the update images)
- UPDATES.list (a text file containing the filesets for this FixPak)
- installFixPak.sh (this FixPak install script)
- rejectFixPak.sh (this FixPak uninstall script)

3. Apply the FixPak:

```
# ./installFixPak.sh
```

Note: Executing **ibmdiradm** after you apply the FixPak might result in a 32 No Such Object error. You can ignore this error. **ibmdiradm** starts successfully.

4. If you are installing Web Administration, you must complete the following steps in order for the Web Administration FixPak files to take effect.

Note: Default command paths are used in these examples. You may have to change them if your install is different.

- The AIX and Linux default is /usr/lldap
- The Solaris default is /opt/IBMldap

a. Set the environment variable:

AIX and Linux:

```
export INSTALL_DIR=/usr/lldap
```

Solaris:

```
export INSTALL_DIR=/opt/IBMldap
```

b. Run the following command:

```
export BOBCAT_HOME=$INSTALL_DIR/appsrv
```

c. Make sure the appserver is running:

```
ps -ef | grep server1
```

If it is not running, run the following command to start it:

```
$BOBCAT_HOME/bin/startServer.sh server1
```

d. Run the webserver admin tool:

```
$BOBCAT_HOME/bin/wsadmin.sh
```

At the **wsadmin>** command prompt type:

```
$AdminApp uninstall IDSWebApp.war
$AdminConfig save
quit
```

e. Stop the application server:

```
$BOBCAT_HOME/bin/stopServer.sh server1
```

f. Update the web server:

```
chmod +x $PATCH_DIR/tmp/updateWebAdmin.sh
$PATCH_DIR/tmp/updateWebAdmin.sh
```

- g. Restart the application server:
 \$BOBCAT_HOME/bin/startServer.sh server1
- h. Test the new WebAdmin by opening a browser and entering this URL:
 http://*hostname*:9080/IDSWebApp/IDSjsp/Login.jsp

where *hostname* is the host name of your computer.

Uninstalling the FixPak

Uninstall the FixPak by executing the rejectFixPak.sh script.

```
# ./rejectFixPak.sh
```

Note: This can only be done if you have not committed the FixPak.

Confirming the FixPak has been applied successfully

After installation, the file \$INSTALL_DIR/bin/FP510A-01.txt is added and contains the build information and the time the FixPak was installed. The default \$INSTALL_DIR is /usr/ldap. For example:

```
# cat /usr/ldap/bin/FP510A-01.txt
IBM Directory      Release: aus51pldap  Build: 030416a
Date applied: Tue Apr 16 12:49:30 CDT 2003
```

The filesets listed in UPDATES.list are updated to version 5.1.0.101. To list which filesets and associated versions are installed, type:

```
# lsipp -l 'ldap.*'
```




Printed in U.S.A.