



Fix pack FP510A-02 README
IBM Directory Server 5.1
AIX[®] operating system



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Fix pack FP510A-02

Fix pack: FP510A-02

Date: October, 2003

IBM® Directory Server Version 5.1

General description

The fix pack 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 about changes and fixes that occurred after the product documentation was translated, see the *IBM Directory Server Version 5.1 README Addendum*. The Addendum file is in English only and can be found at the following Web address:

<http://publib.boulder.ibm.com/tividd/td/IBMDirectoryServer5.1.html>

Problems fixed

The following new fixes are in FP510A-02. This fix pack also includes the fixes from the previous fix pack.

No APAR (CMVC 77525)

Attributes containing certain base 64 encoded values not replicated.

No APAR (CMVC 77659)

`db2ldif -s cn=changelog` shows errors.

When exporting entries to LDIF format, password policy attribute tables are not created in the changelog database; this causes command line and `ibmslapd` errors to be logged.

APAR IR50835 (CMVC 77974)

`ldapxcfg` changed to generate an error if server is running during configuration

No APAR (CMVC 78028)

`dbback -w` does not report error if directory does not exist.

APAR IR52414 (CMVC 78067)

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

No APAR (CMVC 78646)

`ldapsearch` search filter size limit set to 4k for all platforms.

No APAR (CMVC 78752)

Change default "ibm-slapdChangeLogMaxEntries" to 1,000,000 to avoid file system limits.

No APAR (CMVC 78773)

Add or modify of invalid attribute name may crash the server.

- No APAR (CMVC 78919)**
ibmslapd fails on SMP machine with AuditLog on if many errors are being written to the error log.
- APAR IR51517 (CMVC 79332)**
bulkload fails to propagate ACLs with large LDIF file.
- APAR IR51880 (CMVC 79351)**
Trailing space stripped from attribute values when replicated.
- APAR IR51564 (CMVC 79415)**
Server deadlocks in DN or entry cache.
- APAR IR51880 (CMVC 79419)**
Do not block worker thread when reading from slow or empty (non-SSL) client connection.
- No APAR (CMVC 79880)**
On Linux Intel only, unsuccessful **ldapcfg** may leave database partially configured.
- APAR IR52127 (CMVC 80070)**
db2ldif will not export members that were added with attribute name (member or uniquemember) not all lowercase.
- APAR IR51950 (CMVC 80145)**
ACL evaluation for ibm-allMembers does not evaluate group membership of subject.
- APAR IR51677 (CMVC 80183)**
Problem with account locking in password policy prevents bind even after lockout timeout.
- No APAR (CMVC 80310)**
"32: No such object" message when starting **ibmdiradm**.
- No APAR (CMVC 80594)**
If server is running, do not allow schema configuration in **ldapxcfg**.
- No APAR (CMVC 80923)**
Stability fixes for SMP Solaris.
- APAR IR52095 (CMVC 81061)**
If sorted or paged search controls are limited to administrator use only, do not include them in search of supported controls requested by non administrators.
- APAR IR52386 (CMVC 81206)**
DB2 transaction log may overflow with very large replchange count
- No APAR (CMVC 81271)**
SchemaMigrate fails on Windows 2003 migration.
- APAR IR52431 (CMVC 81434)**
Server deadlock with oldConnectionHandler in WorkQ::Interlock and all worker threads idle.
- APAR IR51672 (CMVC 81492)**
db2ldif performance enhancements.
- APAR IR52411 (CMVC 81493)**
Server SEGV after dn_normalize_light_esc() receiving SSL connection.
- APAR IR52229 (CMVC 81762)**
xlate_local_to_utf8() can return LDAP_SUCCESS on failure.

APAR IR52415 (CMVC 82017)

Do not include administrator DN in root DSE search.

APAR IR52161 (CMVC 82177)

Replicate internal updates (i.e. from plug-ins)

APAR IR52413 (CMVC 82216)

bulkload tool LDIF verification fails with core dump using **-A** flag.

No APAR (CMVC 82312)

Memory leak.

APAR IR52412 (CMVC 82432)

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

APAR IR52257 (CMVC 82452)

Web Admin support for Turkish locale.

Dependencies

IBM Directory Server 5.1, with or without fix packs, must be installed.

Fix pack contents

The archive for this fix pack is named FP510A-02.tar and contains the following files:

File	bytes	sum -r
=====	=====	=====
FP510A-02Readme.pdf	-	-
FP510A-02.txt	55	17689
install_update	4886	03250
uninstall_update	3233	05263
UPDATES/.toc	2779	24827
UPDATES/ldap.client.adt.bff	226304	29887
UPDATES/ldap.client.rte.bff	2892800	40926
UPDATES/ldap.max_crypto_client.rte.bff	933888	30602
UPDATES/ldap.max_crypto_server.com.bff	1164288	16415
UPDATES/ldap.max_crypto_webadmin.bff	12211200	41203
UPDATES/ldap.server.cfg.bff	24576	25524
UPDATES/ldap.server.com.bff	21013504	03502
UPDATES/ldap.server.rte.bff	6563840	41762
UPDATES/ldap.webadmin.bff	12778496	37639
UPDATES.list	300	29220
update_webadmin	1481	27532

The client installation includes the following files:

File	bytes	sum -r
=====	=====	=====
bin/FP510A-02Readme.pdf	-	-
bin/FP510A-02.txt	55	17689
examples/ldapchangepwd.c	30414	62655
examples/ldapdelete.c	26547	63942
examples/ldapmodify.c	56577	10665
examples/ldapmodrdrn.c	29118	16725
examples/ldapsearch.c	59054	57760
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
bin/ibmdirctl	29436	28413
bin/ldapchangepwd	36498	40185
bin/ldapdelete	33683	28402
bin/ldapexop	82975	12837
bin/ldapmodify	76824	00647
bin/ldapmodrdn	34199	00010
bin/ldapsearch	84206	45458
lib/aix5/ldap_plugin_sasl_cram-md5_64.a	5935	06440
lib/aix5/libibmldap64n.a	519764	19634
lib/aix5/libldapiconv64.a	6745	05908
lib/aix5/libldapstaticn.a	1426012	14039
lib/aix5/libldif.a	53242	64156
lib/ldap_plugin_ibm_gsskrb.a	32027	25738
lib/ldap_plugin_sasl_cram-md5.a	5343	16096
lib/ldap_plugin_sasl_cram-md5_64.a	5935	31738
lib/libibmldap64n.a	519470	15232
lib/libibmldapn.a	562043	10581
lib/libldapiconv.a	6064	16145
lib/libldapiconv64.a	6713	60939
lib/libldapstaticn.a	728611	29643
lib/libldif.a	53192	51448
lib/libibmldap.a	595345	15024
lib/libldapstatic.a	769189	03927

The Web Administration Tool installation includes the following files:

File	bytes	sum -r
=====	=====	=====
bin/FP510A-02Readme.pdf	-	-
bin/FP510A-02.txt	55	17689
idstools/IDSWebApp.war	12205660	33923
idstools/nossl/IDSWebApp.war	12019964	54622
idstools/DSML.zip	752707	07122

The server installation includes the following files:

File	bytes	sum -r
=====	=====	=====
bin/FP510A-02Readme.pdf	-	-
bin/FP510A-02.txt	55	17689
bin/ibmdiradm	668012	31414
bin/ibmslapd	994828	14421
bin/ldapxcfg	30113	54109
bin/IDSProxyExe	25283	31181
bin/dbback	46246	20676
bin/dbrestore	46586	28061
bin/ibmdiradm	660416	30346
bin/ibmslapdn	994766	47363
bin/ldamsg	17029	23772
bin/ldapbp.jar	49437	33729
bin/ldapcfg	27733	50209
bin/ldapdiff.jar	129933	21432
bin/ldapdiff	27760	61094
bin/ldapucfg	27734	44797
config/IDSCfg.jar	2908353	21122
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/auibase.jar	285493	28704
config/csa_runtime/auifw.jar	318679	58459
config/csa_runtime/auil18n.jar	309063	29133
config/csa_runtime/auswing.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/swingl1spinner_Runtime.jar	161875	00481
config/csa_runtime/uil.jar	1117025	26287
config/csa_runtime/xerces.jar	1803877	33231
lib/libIDSProxyDll.a	16359	17312
lib/libdbadmin.a	160711	04180
lib/libldacfg.a	84343	51984
lib/libldapjrt.a	28639	49166
sbin/Schema.jar	2141323	40661
sbin/SchemaMigrate.jar	42639	57000
sbin/bulkload	672525	00060
sbin/cfgmodify	60205	29290
sbin/db2ldif	508822	58751
sbin/ldif2db	500682	25807
sbin/ldif	41918	27842
sbin/ldtrc	115157	45420
sbin/ltou	31095	15405
sbin/migrate51	34037	38236
sbin/rc.ibmdir	1304	49489
sbin/runscript	8126	20352
sbin/runstats	458830	61191
sbin/utol	31096	45050
lib/libDSP.a	26596	62387
lib/libback-config.a	89600	12127
lib/libback-rdbm.a	1753725	15958
lib/libcfg32.a	2878113	49048
lib/libevent.a	92063	59158
lib/libibmldapcl.a	51846	29240
lib/libldapaudit.a	52025	40557
lib/libldapkrb.a	58490	11683
lib/libldaprepl.a	616384	62456
lib/libloga.a	42748	19477
lib/libmessage.a	90284	44155
lib/libslapi.a	100012	06742
lib/libtranext.a	266399	43172
lib/libtransys.a	330037	45415
lib/libtrc.a	42081	00246
lib/libutils.a	2697061	14844
lib/libutlsa.a	65925	28982

Applying the fix pack

You need at least 145 MB for a server fix pack installation, less if patching a client only installation.

To apply the fix pack:

1. For each computer targeted to receive the fix pack, be sure that the IBM Directory Server server is 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. (Running **slibclean** is included in the commands in step 5 on page 6.)

2. Copy the fix pack archive file (FP510A-02.tar) to a directory with sufficient free disk space to hold the archive file.
3. Log in as root.
4. Stop **ibmslapd** and **ibmdiradm**.
5. Open a command prompt and type the following.

```
# ksh
# slibclean
# cd {directory where FP510A-02.tar is}
# export PATCH_DIR=$(pwd)
# tar -xvf FP510A-02.tar
```

Note: All remaining steps use this command prompt.

After untarring the archive, a new directory named FP510A-02 exists. This directory contains the following files and subdirectories:

- FP510A-02Readme.pdf (fix pack Readme file)
 - UPDATES (directory containing the update images)
 - UPDATES.list (a text file containing the filesets for this fix pack)
 - install_update (the fix pack install script)
 - uninstall_update (the fix pack uninstall script)
 - update_webadmin (the Web Administration update script)
6. Apply the fix pack by typing the following:

```
# ./install_update
```

Note: Installation status information is recorded in the `./install_update.LOG` file. If you see a status of `FAILED` for filesets that are not installed on the computer, you can ignore this.

Attention: Do not commit the fix pack 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 running the installation script again with the `-c` option:

```
# ./install_update -c
```

After you commit the fix pack, the only way to back out the fix pack is to uninstall and reinstall the product.

7. If you are installing the Web Administration Tool, you must complete the following steps for the Web Administration Tool fix pack files to take effect.

Note: The commands shown are for the embedded version of WebSphere® Application Server - Express, installed in the `/usr/ldap/appsrv` directory. If you are using a different application server, use the documentation for that application server. If you have the embedded version of WebSphere Application Server - Express installed in a different directory, change the commands to match your installation.

- a. Set the environment variable for the installation directory:

```
export INSTALL_DIR=/usr/ldap
```
- b. Set the environment variable for the installation directory for the embedded version of WebSphere Application Server - Express:

- ```
export BOBCAT_HOME=$INSTALL_DIR/appsrv
```
- c. Be sure that the application server is running:  

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

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

- ```
$BOBCAT_HOME/bin/startServer.sh server1
```
- d. Run the Web server 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:  

```
$PATCH_DIR/update_webadmin
```
  - g. Restart the application server:  

```
$BOBCAT_HOME/bin/startServer.sh server1
```
  - h. To test the new Web Administration Tool, open a browser and enter the following Web address:  

```
http://hostname:9080/IDSWebApp/IDSjsp/Login.jsp
```

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

---

## Confirming that the fix pack has been applied successfully

After installation, the file `$INSTALL_DIR/bin/FP510A-02.txt` is added. This file contains the build information and the time the fix pack was installed. For example:

```
cat /usr/ldap/bin/FP510A-02.txt
IBM Directory Release: aus51pldap Build: 030921a
```

The filesets listed in `UPDATES.list` are updated to version 5.1.0.102. To list the filesets and associated versions that are installed, type:

```
ls1pp -l 'ldap.*'
```

---

## Uninstalling the fix pack

To uninstall the fix pack:

1. Log in as root.
2. Stop **ibmslapd** and **ibmdiradm**.
3. Run the **uninstall\_update** script by typing the following command:  

```
./uninstall_update
```

**Note:** This can only be done if you have not committed the fix pack.

4. If you updated the Web Administration Tool, run step 7 on page 6 again.







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