



Fix pack FP510W-02 README
IBM Directory Server 5.1
Windows[®] operating system



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Fix pack FP510W-02

Fix pack: FP510W-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 each 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 file is in English only. This file 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 FP510W-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 FP510W-02.zip and contains the following files:

File	bytes	sum -r
=====	=====	=====
FP510W-02Readme.pdf	-	-
FP510W-02.txt	69	44697
archive.jar	30740359	26056
media.inf	13	58904
setup.exe	17116211	02200
update_webadmin.bat	630	62830
FP510W-02.filelist.server	1694	40308
FP510W-02.filelist.client	612	48189
FP510W-02.filelist.webadmin	43	23251

The client installation includes the following files:

File	bytes	sum -r
=====	=====	=====
FP510W-02Readme.pdf	-	-
FP510W-02.txt	69	44697
bin\ibmdirctl.exe	32510	53680
bin\ldap.dll	399756	24735
bin\ldap_ph.dll	58635	09722
bin\ldap_plugin_ibm_gsskrb.dll	31868	58596
bin\ldap_plugin_sasl_cram-md5.dll	23045	59091
bin\ldapadd.exe	50250	48470
bin\ldapchangepwd.exe	29169	59619
bin\ldapdelete.exe	28834	39327
bin\ldapexop.exe	62103	09174
bin\ldapmodify.exe	50250	48470
bin\ldapmodrdn.exe	29022	06960
bin\ldapsearch.exe	58678	52351
bin\level.txt	87	59343
bin\libldapiconv.dll	23757	65167
bin\libmsgs.dll	86016	45929
include\audit-plugin-list.h	2104	40247
include\audit-plugin.h	12294	54960
include\lber.h	1690	07655
include\ldap.h	49557	45732

include\ldaplocale.h	5343	14097
include\ldaps1.h	18249	51552
include\ldif.h	4470	09024
include\slapi-plugin.h	12207	41775
lib\ldap.lib	247942	15072
lib\ldapstatic.lib	1319456	43761
lib\libldapiconv.lib	6186	56583
lib\libldapiconvstatic.lib	7012	16630
lib\libldif.lib	43080	00064
lib\libmsg.lib	119908	53970
lib\libmsgs.lib	33478	22052
lib\libslapi.lib	73388	43324

The Web Administration Tool installation includes the following files:

File	bytes	sum -r
=====	=====	=====
FP510W-02Readme.pdf	-	-
FP510W-02.txt	69	44697
dsm1\idstools\DSML.zip	752707	07122
idstools\idstools\IDSWebApp.war	12205660	33923
noss1_idstools\idstools\IDSWebApp.war	12019964	54622

The server installation includes the following files:

File	bytes	sum -r
=====	=====	=====
FP510W-02Readme.pdf	-	-
FP510W-02.txt	69	44697
bin\bulkload.exe	309187	25967
bin\cfg32.dll	308878	12531
bin\cfgmodify.exe	39198	17084
bin\db2ldif.exe	192766	27733
bin\dbback.exe	34603	48526
bin\dbcheck.exe	20635	02152
bin\dbrestore.exe	34906	34821
bin\ibmdiradm.exe	167262	37365
bin\ibmslapd.exe	542064	62966
bin\IDSproxyDll.dll	24641	07791
bin\IDSproxyExe.exe	21005	19665
bin\ldacfg.dll	62285	30584
bin\ldamsg.exe	100352	16693
bin\ldapcfg.exe	22346	52309
bin\ldapdiff.exe	22347	55744
bin\ldapdiff.jar	129933	21432
bin\ldapbp.jar	49437	33729
bin\ldapjrt.dll	31423	47066
bin\ldapucfg.exe	22347	36106
bin\ldapxcfg.exe	22347	07860
bin\ldif.exe	26330	12013
bin\ldif2db.exe	185030	21876
bin\ldtrc.exe	67719	11461
bin\ldtrcd.exe	19736	22228
bin\libback-config.dll	55162	00016
bin\libback-rdbm.dll	1028342	64744
bin\libcl.dll	46975	55152
bin\libdbadmin.dll	160895	02192
bin\libDSP.dll	36218	48936
bin\libevent.dll	52522	16333
bin\libldapaudit.dll	43066	17995
bin\libldapkrb.dll	47698	19448
bin\libldaprep1.dll	323968	56854
bin\liblog.dll	32753	60220
bin\libmessage.dll	89377	02711
bin\libslapi.dll	101546	37118
bin\libtranext.dll	31239	43410
bin\libtransys.dll	170325	22735
bin\libtrc.dll	40516	10275

bin\libutils.dll	1130849	30945
bin\libutlsa.dll	45534	53210
bin\ltou.exe	19911	52702
bin\runstats.exe	163763	48040
bin\Schema.jar	2144051	63279
bin\SchemaMigrate.jar	42639	26776
bin\ldapbp.jar	49437	33729
bin\SHSMP.dll	115824	09883
bin\SHSMPd.dll	189440	36894
bin\utol.exe	19915	16006
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	210	26960
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\auiswing.jar	472971	14393
config\csa_runtime\jhall.jar	402270	52882
config\csa_runtime\settings\data.properties	559	29841
config\csa_runtime\settings\framework.properties	811	47808
config\csa_runtime\settings\registry.properties	759	04113
config\csa_runtime\settings\trace.properties	440	64284
config\csa_runtime\swingl1spinner_Runtime.jar	161875	00481
config\csa_runtime\uil.jar	1117025	26287
config\csa_runtime\xerces.jar	1803877	33231
config\IDSConfig.jar	1873921	57229
ldapcfg.ico	7398	16974
config\config\OpNav.Java.Application.ser	635	29664

Applying the fix pack

You need at least 120 MB for a server fix pack installation, less if patching a client only installation.

To apply the fix pack:

1. Set an environment variable to the fully qualified path of a temporary subdirectory. Open a command prompt and type the following:

```
> cmd /x
> md c:\51fp2
```

Extract the fix pack contents into this subdirectory, using a utility such as PKZIP. This creates a subdirectory named FP510W-02. Type the following:

```
> set PATCH_DIR=c:\51fp2\FP510W-02
> cd /d %PATCH_DIR%
```

(Note that this command prompt will be used for all following steps.)

2. 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. (Stop **idmdiradm** and **ibmslapd**.)
3. On the computer where you are installing the fix pack, stop any programs that are running and close all windows. If you have open windows, the initial fix pack installation window might be hidden behind other windows.

4. Determine what components are installed on your computer, as follows:
 - If the following command returns Server Installed!, you have the server installed:


```
if exist "%LDAPHome%\bin\ibmslapd.exe" echo Server Installed!
```
 - If the following command returns Client Installed!, you have the client installed:


```
if exist "%LDAPHome%\lib\ldap.lib" echo Client Installed!
```
 - If the following command returns Webadmin Installed!, you have the Web Administration Tool installed:


```
if exist "%LDAPHome%\idstools\IDSWebApp.war" echo Webadmin Installed!
```
5. Make a backup copy of the files that will be replaced. This step is optional, but must be performed if you want to uninstall the fix pack at a later time.

Note: If you receive File Not Found errors during the backup, it might mean that you do not have that file's component installed on this machine. These errors can be ignored.

```
xcopy "%LDAPHome%" %PATCH_DIR% /t
```

For server installations:

```
for /F %i in (FP510W-02.filelist.server) do copy "%LDAPHome%\%i" %i
```

For client installations:

```
for /F %i in (FP510W-02.filelist.client) do copy "%LDAPHome%\%i" %i
```

For Web Administration Tool installations:

```
for /F %i in (FP510W-02.filelist.webadmin) do copy "%LDAPHome%\%i" %i
```

6. Run the setup.exe file from the command prompt:


```
setup
```

The Welcome window is displayed.

7. To begin installation, click **Next**.
8. If your computer needs to be restarted, a panel is displayed stating that you must restart your computer. Select to restart your computer now or later and click **Finish**.
9. After your computer has been restarted (if necessary) you can now restart your servers. You can also restart any application previously terminated to apply this fix pack.
10. Copy the FP510W-02Readme.pdf file to the %LDAPHome%\bin directory.
11. 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: These instructions assume that you are using the embedded version of WebSphere® Application Server - Express as your application server. If you are using another application server, use the documentation for that application server.

- a. Be sure that the application server is running:


```
"%LDAPHome%\appsrv\bin\startServer.bat" server1
```
- b. Run the Web server admin tool:


```
"%LDAPHome%\appsrv\bin\wsadmin.bat"
```
- c. At the **wsadmin>** command prompt, type:

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

- d. Stop the application server:
`"%LDAPHome%\appsrv\bin\stopServer.bat" server1`
- e. Update the Web server:
`"%PATCH_DIR%\update_webadmin"`
- f. Restart the application server:
`"%LDAPHome%\appsrv\bin\startServer.bat" server1`
- g. 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

The contents of the `%LDAPHome%\bin\FP510W-02.txt` file are:

```
IBM Directory Release: aus51pldap Build: 030921a
Mon 09/22/2003
```

Uninstalling the fix pack

To uninstall the fix pack, run the appropriate command or commands from the command prompt. To uninstall, you must have already created a backup. See steps 4 on page 6 and 5 on page 6.

- For server installations:
`for /F %i in (FP510W-02.filelist.server) do xcopy /y/u %i "%LDAPHome%\%i"`
- For client installations:
`for /F %i in (FP510W-02.filelist.client) do xcopy /y/u %i "%LDAPHome%\%i"`
- For Web Administration Tool installations:
 1. Type the following:
`for /F %i in (FP510W-02.filelist.webadmin) do xcopy /y/u %i "%LDAPHome%\%i"`
 2. Run step 11 on page 6 again.



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