



Fix pack FP322W-03 README
IBM SecureWay Directory 3.2.2
Windows operating system



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Fix pack FP322W-03

Fix pack: FP322W-03

Date: June 2003

IBM® SecureWay® Directory 3.2.2

General description

The fix pack for Windows® contains fixes for problems encountered in IBM SecureWay Directory 3.2.2. 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 *SecureWay Directory 3.2.2 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/IBMDS/addendum322/en_US/HTML/addendum322.htm

Problems fixed

New fixes in FP322W-03

APAR IR47566 (CMVC 72309)

Escape character on Japanese code page fails when adding suffix.

APAR IR48345 (CMVC 72209)

Upon receiving bind request over a connection that is an already established session, evaluation of group membership for ACLs must occur for this newly bound entry.

APAR IR48371 (CMVC 75622)

Allow use of IBM-943 elements on Windows Japanese systems.

APAR IR48427 (CMVC 72548)

slapd fails intermittently on 3.2.2 and 3.2.2 efix1 and efix2 when freeing many entries.

APAR IR48529 (CMVC 72712)

Slapd fails intermittently with referrals or invalid DNs.

APAR IR48600 (CMVC 73020)

ldapcfg changes for SP™ Node environment

APAR IR48618 (CMVC 77572)

db2ldif and bulkload need to handle output files larger than 2 GB.

APAR IR48639 (CMVC 73019)

db2idrop behavior changes in ldapucfg for Windows DB2® Versions higher than 7.1.3.

APAR IR48647 (CMVC 77387)

Server stops when handling invalid DNs.

APAR IR48847 (CMVC 73322)

HP-UX client stops when processing SHA encrypted value.

- APAR IR48958 (CMVC 74273)
Server stops when schema is modified when ldtrc is on.
- APAR IR49257 (CMVC 71552)
DB2 backup is not taking backup of V3.modifiedschema file.
- APAR IR49261 (CMVC 73075)
ACL Cache logic error; TrimAclCache does not work.
- APAR IR49272 (CMVC 74798)
SQL CLI0125E error in rdbm_select_entryblob().
- APAR IR49290 (CMVC 72573)
Memory leak when searching using ModifyTimeStamp.
- APAR IR49329 (CMVC 73905)
Security exposure in Directory impacts Access Manager.
- APAR IR49434 (CMVC 74910)
ldapucfg -d fails with "db2idrop: command not found" error
- APAR IR49644 (CMVC 75812)
Web Administration displays "Internal Server Error" when viewing Suffixes or Audit Log if SSL is enabled.
- APAR IR50066 (CMVC 77405)
Avoid linear searches in LRUMoveToEnd for ACL caches to improve performance.
- APAR IR50068 (CMVC 77479)
Modify replace with null value not removing attribute.
- APAR IR50309 (CMVC 75032)
Directory code is trying to free the same memory twice.
- APAR IR50343 (CMVC 77673)
Double ber_free() in search.c traps windows client.
- APAR IR50724 (CMVC 77615)
DNs containing extended ASCII characters return protocol error.
- APAR IR50956 (CMVC 77585)
Members do not show up in groups after migration from 3.2.1 to 3.2.2.
- APAR IR50976 (CMVC 78004)
ldif2db utility does not turn off caches.
- APAR IR51100 (CMVC 78768)
Change logging class of Critical Accept Error.
- APAR IR51119 (CMVC 78254)
Memory leak in rdbm_pwd.cpp for SHA ldap.rdbm.
- APAR IR51303 (CMVC 78770)
Cannot stop server from Web Administration.
- APAR IR51326 (CMVC 78813)
DMT exception in setCurrentObject - java.lang.String.

Fixes in 3.2.2-SWD-002

- APAR IR47735 (CMVC 71113)
Support using { as first character in LDAP user passwords.
- APAR IR47802 (CMVC 70356)
Doing an ldapsearch on the Root DSE or Monitor class using * or attributes

to be returned is not working with 3.2.2. This fix will allow the search "ldapsearch -s base objectclass=* *" to return all attributes in the root DSE.

APAR IR48028 (CMVC 70625)

Adding an attribute and modifying ACLs to an objectclass causes the ACLs to not work correctly unless slapd is rebooted.

APAR IR48052 (CMVC 71113)

When you modify the attribute userpassword for an existing user with a hashed value the server cores.

APAR IR48137 (CMVC 71629)

Using 3.2.2 efex1, a memory leak might occur during an unbind operation (in some cases approximately 100 bytes per unbind).

APAR IR48168 (CMVC 71121)

When upgrading to 3.2.2 and running changelog with peer masters, replication will not be started until replica objects are added to both peer masters.

APAR IR48126 (CMVC 71523)

The LDAP server intermittently cores when interacting with the iPlanet proxy Client and Directory Access Router (iDAR).

APAR IR48300 (CMVC 71282)

Memory leak in ACL cache.

APAR IR48302 (CMVC 70876)

Several errors were corrected for messages displayed when using the ldapcfg script. Before the fix, the wrong error message or no error message was sometimes displayed.

Fixes in 3.2.2-SWD-001

APAR IR47193 (CMVC 68302)

An entry is added to the changelog when slapd restarts. This entry must not be added. It also is not passed from peer to peer.

APAR IR47323 (CMVC 68444)

Slapi_Search_Internal API takes a long time to return data when compared with the command line ldapsearch using the same search parameters.

APAR IR47324 (CMVC 68572)

Removing an attribute breaks access to aclEntrys and exportability using db2ldif.

APAR IR47602 (CMVC 69302)

Replication failure when performing a modify replace with no value. The request is incorrectly written into the change table.

APAR IR47623 (CMVC 68531)

Attempting a modify replace on an attribute with syntax integer or timestamp with the same value and is part of the RDN fails. This operation has worked in previous releases.

APAR IR47624 (CMVC 68542)

Performing an ldapdelete operation incurs a deadlock in the DB2 backend, and the LDAP server hangs.

APAR IR47625 (CMVC 68545)

In a high performing environment such as BluePages, the LDAP server can appear to hang for several minutes at a time.

APAR IR47627 (CMVC 68733)

The LDAP server encounters function sequence errors when delete operations are performed.

APAR IR47629 (CMVC 68805)

The LDAP server experiences a memory leak in the client controls portion of the server's operation structure.

APAR IR47630 (CMVC 68935)

When creating a custom database for the server's backend use, and it is configured for UTF-8 storage, the code page information is not put in the slapd32.conf file.

APAR IR47631 (CMVC 69012)

The LDAP server incurs a segmentation fault when writing an audit record with unknown-auth.

APAR IR47633 (CMVC 69032)

The LDAP server preoperation plugin preoperation value array is not null terminated as required by specifications.

APAR IR47635 (CMVC 69277)

SASL bind reports success with SSL connections even if using a keyring database label that does not reference an actual certificate.

APAR IR47692 (CMVC 70361)

For the ldapssl.h include file, SSL return codes must reflect the same information present in the GSKIT 5 product. Equivalent items based on the GSKIT 3 product must be removed.

APAR IR47874 (CMVC 70380)

Bulkload utility fails if shell does not append inherited value to PATH environment variable.

APAR IR47886 (CMVC 70068, 70493)

Search operations fail, and dbsync process shows excessive resource utilization due to default ldap_desc.deid index.

APAR IR47928 (CMVC 69750, 69774)

Memory leaks occur in the server process.

APAR IR47930 (CMVC 70538)

LDAP clients operating on Solaris can hang performing an add operation.

APAR IR48029 (CMVC 70142, 70236)

Modify ldif processing to allow for sending and receiving a value identified as having zero length.

Dependencies

IBM SecureWay Directory 3.2.2, with or without fix packs, must be installed.

Fix pack contents

The archive for this Fix pack is named FP322W-03.zip.

The client installation includes the following files:

File	bytes	sum -r
FP322W-03.filelist.client	339	57832
install.bat	6430	09678
uninstall.bat	5441	31346

bin\FP322W-03Readme.pdf	-----	-----
bin\FP322W-03.txt	75	44509
bin\dmtd.exe	15872	31027
bin\dmtd.jar	1112548	38377
bin\dmtdnt.dll	13312	23781
bin\ldap.dll	412672	40277
bin\ldapadd.exe	39424	42718
bin\ldapdelete.exe	22016	23266
bin\ldapmodify.exe	39424	42718
bin\ldapmodrdr.exe	23040	56170
bin\ldapsearch.exe	36352	02465
bin\ldap_plugin_ibm_gsskrb.dll	22016	18032
examples\ldapsearch.c	28664	18648
include\ldaps1.h	15991	58420
lib\ldap.lib	221774	01343
lib\ldapstatic.lib	2275296	63329
lib\libldif.lib	67668	35404
lib\libslapi.lib	59884	52379

The server installation includes the files in the client installation plus the following:

File	bytes	sum -r
=====	=====	=====
FP322W-03.filelist.server	864	08922
bin\bulkload.exe	304640	15321
bin\db2ldif.exe	197632	64807
bin\ldacfg.dll	42496	29879
bin\ldamsg.exe	122880	55025
bin\ldif.exe	20992	39202
bin\ldif2db.exe	199680	55080
bin\libadmin.dll	196096	61305
bin\libback-rdbm.dll	766464	52250
bin\libcl.dll	28160	21348
bin\libDSP.dll	31744	26755
bin\libevent.dll	45568	49000
bin\libldapaudit.dll	37888	61202
bin\libldapkrb.dll	41472	02737
bin\libmessage.dll	75776	40531
bin\libslapi.dll	79360	05607
bin\libtranext.dll	25088	07103
bin\libtransys.dll	134656	59777
bin\libutils.dll	976384	09042
bin\libutlsa.dll	40448	17914
bin\ltou.exe	13824	40144
bin\miglen.exe	216064	20546
bin\proxy.exe	13824	09585
bin\runstats.exe	186880	23103
bin\slapd.exe	462336	52790
bin\task_dbback.exe	26112	54024
bin\uto1.exe	13824	14840
config\LDAPCfg.jar	524817	09530
web\cgi-bin\ldacgi.exe	3065856	33591
web\cgi-bin\ldacgi3.exe	1444352	22493

Applying the fix pack

Applying the fix pack requires at least 30 MB for a full server installation, less if patching a client only installation.

To apply the fix pack:

1. For each of the servers targeted to receive the fix pack, be sure that the SecureWay Directory server and any applications linking to the client shared libraries are stopped before applying the fix pack.

2. Create a new directory with at least 30 MB of free space to store the fix pack and its backup (for uninstalling); for example: C:\FP322W-03
3. Unzip the FP322W-03.zip file to the directory you just created.
4. Run the install.bat file from the directory; for example, C:\FP322W-03\install.bat

Note: Do not remove the directory containing the fix pack installation files (for example: C:\FP322W-03) or any of the files in the directory unless you are certain that you will not want to uninstall the fix pack at a later time.

5. Restart any applications you terminated before applying the fix pack.

Confirming that the fix pack has been applied successfully

After a successful installation, the contents of the bin/FP322W-03.txt file are:

```
SecureWay Directory Release: aus3221dap Build: 030611a  
Wed 06/11/2003
```

The files listed in the LDAP installation directory (%LDAPHome%) match the file sizes listed in "Fix pack contents" on page 4.

Uninstalling the fix pack

To uninstall the fix pack:

1. For each of the servers from which you want to remove the fix pack, be sure that the SecureWay Directory server and any applications linking to the client shared libraries are stopped.
2. Run the uninstall.bat file from the directory where you unzipped the fix pack; for example, C:\FP322W-03\uninstall.bat
3. Restart any applications you terminated before uninstalling the fix pack.



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