



eFix 3.2.2-SWD-001 README for SecureWay Directory 3.2.2 Solaris Server Installations



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eFix 3.2.2-SWD-001

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eFix: 3.2.2-SWD-001

Component: SecureWay® Directory 3.2.2 (128-bit Encryption Server Installations)

General description

The eFix contains fixes for several problems encountered in SecureWay Directory 3.2.2. The APAR number for each problem is listed in the "Problems fixed" section. Refer to the specific APAR for more detail about each problem.

For information on changes and fixes that occurred after the product documentation had been translated, see the *SecureWay Directory Version 3.2.2 README Addendum*. This file is in English only. This file can also be found on the IBM® SecureWay Directory Library Web page using a link from <http://www.software.ibm.com/network/directory/library>. You can get to the latest information here:
<http://www-4.ibm.com/software/network/directory/library/v322/addendum322.htm>

Problems fixed

New fixes in 3.2.2-SWD-001

APAR IR46387 (CMVC 66977)

LDAPCFG fails if file libjvm.a is found elsewhere in LIBPATH.

APAR IR46765 (CMVC 67358)

Unable to debug situations where commands run from WebAdmin.

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 IR47274 (CMVC 69489)

Processing for unbind can free up a connection before other operations have completed use of the connection.

APAR IR47323 (CMVC 68444)

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

APAR IR47348 (CMVC 68677)

Audit Logging fails when SSL setting is set to SSL ONLY.

APAR IR47602 (CMVC 69302)

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

APAR IR47621 (CMVC 70455)

Fix password change for custom database named ldapdb2.

- 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 info is not put in slapd32.conf.
- 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 same information present in the GSKIT 5 product. Equivalent items based on the GSKIT 3 product must be removed.
- APAR IR47714 (CMVC 69531)**
Replicating modify replace with no value when stored in the change table can exhibit failures.
- APAR IR47715 (CMVC 69977)**
WebAdmin - DB2 Backup error condition displays improper message.
- APAR IR47769 (CMVC 70314)**
LDAP server hangs with all worker threads waiting on ssl_read.
- 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 show 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 receipt value identified to have zero length.

Platforms

Solaris Operating Environment(TM) Software Version 7 (Solaris 7) or later.

Refer to the *IBM Directory Server Version 4.1 Installation and Configuration Guide for Multiplatforms* for additional patch requirements.

Dependencies

SecureWay Directory 3.2.2 or 3.2.2 efix1 must be installed.

DB2 Universal Database™ version 7.2 FixPack 5 or higher.

Files replaced or added by this eFix

With \$INSTALL_DIR representing the root of the LDAP installation, the files replaced are:

```

$INSTALL_DIR2/bin/ldapdelete
$INSTALL_DIR2/bin/ldapdeleted
$INSTALL_DIR2/bin/ldapmodify
$INSTALL_DIR2/bin/ldapmodifyd
$INSTALL_DIR2/bin/ldapmodrdrn
$INSTALL_DIR2/bin/ldapmodrdrnd
$INSTALL_DIR2/bin/ldapsearch
$INSTALL_DIR2/bin/ldapsearchd
$INSTALL_DIR1/bin/ldapcfg
$INSTALL_DIR1/bin/slapdd
$INSTALL_DIR1/bin/task_dbback
$INSTALL_DIR1/config/LDAPCfg.jar
$INSTALL_DIR2/include/ldapsl.h
$INSTALL_DIR1/lib/libslapi.so
$INSTALL_DIR1/lib/libback-rdbm.so
$INSTALL_DIR1/lib/libutils.so
$INSTALL_DIR1/lib/libc1.so
$INSTALL_DIR1/lib/libadmin.so
$INSTALL_DIR1/lib/libldacfg.so
$INSTALL_DIR1/lib/libldapaudit.so
$INSTALL_DIR2/lib/libibmldap.so
$INSTALL_DIR2/lib/libibmldapd.so
$INSTALL_DIR2/lib/libldapstatic.a
$INSTALL_DIR2/lib/libldapstaticd.a
$INSTALL_DIR2/lib/libldif.a
$INSTALL_DIR1/lib/libtransys.so
$INSTALL_DIR1/sbin/ldif
$INSTALL_DIR1/sbin/ldif2db
$INSTALL_DIR1/sbin/db2ldif
$INSTALL_DIR1/sbin/bulkload
$INSTALL_DIR1/sbin/runstats
$INSTALL_DIR1/sbin/miglen
$INSTALL_DIR1/web/cgi-bin/ldacgie.exe
$INSTALL_DIR1/web/cgi-bin/ldacgi3e.exe

$INSTALL_DIR1/web/buildno.txt

```

The default for \$INSTALL_DIR1 is /opt/IBMldaps.

The default for \$INSTALL_DIR2 is /opt/IBMldapc.

eFix contents

The archive for this eFix is named 3.2.2-SWD-001-SOL-US.tar. The archive for this eFix includes:

- This README file
- The file bin/ldapdelete
- The file bin/ldapdeleted
- The file bin/ldapmodify
- The file bin/ldapmodifyd
- The file bin/ldapmodrdn
- The file bin/ldapmodrdnd
- The file bin/ldapsearch
- The file bin/ldapsearchd
- The file bin/ldapcfg
- The file bin/slapdd
- The file bin/task_dbback
- The file config/LDAPCfg.jar
- The file include/ldapssl.h
- The file lib/libslapi.so
- The file lib/libback-rdbm.so
- The file lib/libutils.so
- The file lib/libcl.so
- The file lib/libadmin.so
- The file lib/libldacfg.so
- The file lib/libldapaudit.so
- The file lib/libibmldap.so
- The file lib/libibmldapd.so
- The file lib/libldapstatic.a
- The file lib/libldapstaticd.a
- The file lib/libldif.a
- The file lib/libtransys.so
- The file sbin/ldif
- The file sbin/ldif2db
- The file sbin/db2ldif
- The file sbin/bulkload
- The file sbin/runstats
- The file sbin/miglen
- The file web/cgi-bin/ldacgie.exe
- The file web/cgi-bin/ldacgi3e.exe
- The file web/buildno.txt

Applying the eFix

Note: Your replication environment must be cleaned or resynched, or both. See section 5.2 of the *IBM(R) SecureWay(R) Directory Version 3.2.2 Server Readme* at:

<http://www-4.ibm.com/software/network/directory/library/v322/server.htm>

1. Extract the eFix contents into a temporary directory. For the purpose of this release note, assume that the symbol \$TEMP points to the following directory:

```
# cd $TEMP
# tar -xvf 3.2.2-SWD-001-SOL-US.tar
```

2. For each of the master and slave server installations targeted to receive the eFix, make sure the servers are stopped prior to applying the eFix.
3. Replace the installed version of each file with the version included in the eFix. Move the currently installed file to a location outside of the LDAP installation filesystem or rename the currently installed file. Copy the extracted files to the correct locations in the install folder. The install version locations for each file are:

```

$INSTALL_DIR2/bin/ldapdelete
$INSTALL_DIR2/bin/ldapdeleted (For 128-bit version only)
$INSTALL_DIR2/bin/ldapmodify
$INSTALL_DIR2/bin/ldapmodifyd (For 128-bit version only)
$INSTALL_DIR2/bin/ldapmodrdn
$INSTALL_DIR2/bin/ldapmodrdnd (For 128-bit version only)
$INSTALL_DIR2/bin/ldapsearch
$INSTALL_DIR2/bin/ldapsearchd (For 128-bit version only)
$INSTALL_DIR1/bin/ldapcfg
$INSTALL_DIR1/bin/slapdd
$INSTALL_DIR1/bin/task_dbback
$INSTALL_DIR1/config/LDAPCfg.jar
$INSTALL_DIR2/include/ldapssl.h
$INSTALL_DIR1/lib/libslapi.so
$INSTALL_DIR1/lib/libback-rdbm.so
$INSTALL_DIR1/lib/libutils.so
$INSTALL_DIR1/lib/libc1.so
$INSTALL_DIR1/lib/libadmin.so
$INSTALL_DIR1/lib/libldacfg.so
$INSTALL_DIR1/lib/libldapaudit.so
$INSTALL_DIR2/lib/libibldap.so
$INSTALL_DIR2/lib/libibldapd.so (Supports 128-bit encryption)
$INSTALL_DIR2/lib/libldapstatic.a
$INSTALL_DIR2/lib/libldapstaticd.a (Supports 128-bit encryption)
$INSTALL_DIR2/lib/libldif.a
$INSTALL_DIR1/lib/libtransys.so
$INSTALL_DIR1/sbin/ldif
$INSTALL_DIR1/sbin/ldif2db
$INSTALL_DIR1/sbin/db2ldif
$INSTALL_DIR1/sbin/bulkload
$INSTALL_DIR1/sbin/runstats
$INSTALL_DIR1/sbin/miglen
$INSTALL_DIR1/web/cgi-bin/ldacgie.exe
$INSTALL_DIR1/web/cgi-bin/ldacgi3e.exe

$INSTALL_DIR1/web/buildno.txt (For level tracking purposes)

```

Again, the default for `INSTALL_DIR1` is `/opt/IBMldaps` and for `INSTALL_DIR2` is `/opt/IBMldapc`

4. Assign the correct owner, group, and permissions to the replaced files. Assume `$OWNER` is the owner value in the installation files, and `$GROUP` is the group value. The value of `$OWNER` for the following files is `root`:

```

$INSTALL_DIR/web/cgi-bin/ldacgie.exe
$INSTALL_DIR/web/cgi-bin/ldacgi3e.exe

```

The value of `$OWNER` for the remaining files is `ldap`. The value for `$GROUP` for all files is `ldap`.

```

# chown $OWNER <file>
# chgrp $GROUP <file>

```

The permissions on the files must be set according to the following guide:

```

# chmod <permissions> <file>

$INSTALL_DIR2/bin/ldapdelete 755
$INSTALL_DIR2/bin/ldapdeleted 755
$INSTALL_DIR2/bin/ldapmodify 755
$INSTALL_DIR2/bin/ldapmodifyd 755
$INSTALL_DIR2/bin/ldapmodrdn 755
$INSTALL_DIR2/bin/ldapmodrdnd 755
$INSTALL_DIR2/bin/ldapsearch 755
$INSTALL_DIR2/bin/ldapsearchd 755
$INSTALL_DIR1/bin/ldapcfg 755
$INSTALL_DIR1/bin/slapdd 755
$INSTALL_DIR1/bin/task_dbback 755

```

\$INSTALL_DIR1/config/LDAPCfg.jar	644
\$INSTALL_DIR2/include/ldapssl.h	755
\$INSTALL_DIR1/lib/libslapi.so	755
\$INSTALL_DIR1/lib/libback-rdbm.so	755
\$INSTALL_DIR1/lib/libutils.so	755
\$INSTALL_DIR1/lib/libcl.so	755
\$INSTALL_DIR1/lib/libadmin.so	644
\$INSTALL_DIR1/lib/libldacfg.so	644
\$INSTALL_DIR1/lib/libldapaudit.so	755
\$INSTALL_DIR2/lib/libibmldap.so	755
\$INSTALL_DIR2/lib/libibmldapd.so	755
\$INSTALL_DIR2/lib/libldapstatic.a	755
\$INSTALL_DIR2/lib/libldapstaticd.a	755
\$INSTALL_DIR2/lib/libldif.a	755
\$INSTALL_DIR1/lib/libtransys.so	755
\$INSTALL_DIR1/sbin/ldif	755
\$INSTALL_DIR1/sbin/ldif2db	755
\$INSTALL_DIR1/sbin/db2ldif	755
\$INSTALL_DIR1/sbin/bulkload	755
\$INSTALL_DIR1/sbin/runstats	755
\$INSTALL_DIR1/sbin/miglen	755
\$INSTALL_DIR1/web/cgi-bin/ldacgie.exe	4755
\$INSTALL_DIR1/web/cgi-bin/ldacgi3e.exe	4755

Note: It is critical that the **sticky bit** for the replaced files in \$INSTALL_DIR1/web/cgi-bin is set. So make sure the value used in the chmod command is 4755 (as stated).

5. Start each of the replica and master servers.

Confirming the eFix has been applied successfully

The eFix has been applied successfully if all files included in the eFix have replaced the pre-eFix files of the same names. If after applying the eFix the directory server cannot be restarted, or any other associated function is degraded, notify SecureWay Directory support personnel.

Below is some relevant information on the replacement files:

- Filesize for bin/ldapdelete	is	21184
- Filesize for bin/ldapdeleted	is	21236
- Filesize for bin/ldapmodify	is	46108
- Filesize for bin/ldapmodifyd	is	46168
- Filesize for bin/ldapmodrdrn	is	22108
- Filesize for bin/ldapmodrdrnd	is	22168
- Filesize for bin/ldapsearch	is	42604
- Filesize for bin/ldapsearchd	is	42664
- Filesize for bin/ldapcfg	is	12042
- Filesize for bin/slapdd	is	1053356
- Filesize for bin/task_dbback	is	488960
- Filesize for config/LDAPCfg.jar	is	524826
- Filesize for include/ldapssl.h	is	15677
- Filesize for lib/libslapi.so	is	121156
- Filesize for lib/libback-rdbm.so	is	1086264
- Filesize for lib/libutils.so	is	5552468
- Filesize for lib/libcl.so	is	34460
- Filesize for lib/libadmin.so	is	204364
- Filesize for lib/libldacfg.so	is	32908
- Filesize for lib/libldapaudit.so	is	45268
- Filesize for lib/libibmldap.so	is	918884
- Filesize for lib/libibmldapd.so	is	919204
- Filesize for lib/libldapstatic.a	is	750312
- Filesize for lib/libldapstaticd.a	is	750636
- Filesize for lib/libldif.a	is	17684
- Filesize for lib/libtransys.so	is	111752
- Filesize for sbin/ldif	is	18028

```

- Filesize for sbin/ldif2db          is 733984
- Filesize for sbin/db2ldif          is 728932
- Filesize for sbin/bulkload         is 863212
- Filesize for sbin/runstats         is 711672
- Filesize for sbin/miglen           is 741692
- Filesize for web/cgi-bin/ldacgie.exe is 6353632
- Filesize for web/cgi-bin/ldacgi3e.exe is 1997072

- sum -r bin/ldapdelete              results are: 33254 xxxx
- sum -r bin/ldapdeleted              results are: 02973 xxxx
- sum -r bin/ldapmodify              results are: 53531 xxxx
- sum -r bin/ldapmodifyd             results are: 37169 xxxx
- sum -r bin/ldapmodrdn              results are: 27350 xxxx
- sum -r bin/ldapmodrdn              results are: 59513 xxxx
- sum -r bin/ldapsearch              results are: 63570 xxxx
- sum -r bin/ldapsearchd             results are: 53653 xxxx
- sum -r bin/ldapcfg                 results are: 25868 xxxx
- sum -r bin/slapdd                   results are: 16454 xxxx
- sum -r bin/task_dbback              results are: 47402 xxxx
- sum -r config/LDAPCFG.jar           results are: 11176 xxxx
- sum -r include/ldapssl.h           results are: 17457 xxxx
- sum -r lib/libslapi.so              results are: 43429 xxxx
- sum -r lib/libback-rdbm.so          results are: 63998 xxxx
- sum -r lib/libutils.so              results are: 53994 xxxx
- sum -r lib/libcl.so                 results are: 27307 xxxx
- sum -r lib/libadmin.so              results are: 24080 xxxx
- sum -r lib/libldacfg.so             results are: 37903 xxxx
- sum -r lib/libldapaudit.so          results are: 13883 xxxx
- sum -r lib/libibmldap.so            results are: 44122 xxxx
- sum -r lib/libibmldapd.so           results are: 24486 xxxx
- sum -r lib/libldapstatic.a          results are: 46081 xxxx
- sum -r lib/libldapstaticd.a         results are: 42952 xxxx
- sum -r lib/libldif.a                results are: 15977 xxxx
- sum -r lib/libtransys.so            results are: 11994 xxxx
- sum -r sbin/ldif                    results are: 44368 xxxx
- sum -r sbin/ldif2db                 results are: 46235 xxxx
- sum -r sbin/db2ldif                 results are: 51622 xxxx
- sum -r sbin/bulkload                 results are: 01380 xxxx
- sum -r sbin/runstats                 results are: 09107 xxxx
- sum -r sbin/miglen                   results are: 32101 xxxx
- sum -r web/cgi-bin/ldacgie.exe       results are: 20014 xxxx
- sum -r web/cgi-bin/ldacgi3e.exe     results are: 10223 xxxx

```

Each xxxx represents the number of blocks used by the file. This number is filesystem format dependent.

The contents of the web/buildno.txt file are:

SecureWay Directory Release: aus322ldap Build: 020315a



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