



**Patch P322L-02B README for
SecureWay Directory 3.2.2 Linux i386
Installations**



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P322L-02B

Date: August 26, 2002

Patch: P322L-02B

Component: SecureWay® Directory 3.2.2 (All Installations)

General description

The archive provides a patch required to resolve a segmentation violation which can occur when the ldap client library is processing an incorrectly structured filter that has an imbalance of open and closed parentheses. Also included in the patch is a fix to the ldap client library which allows for correct handling of network errors reported from the sockets layer.

Problems fixed

Fixes provided by this patch

APAR IR48789 (CMVC 73453, 73594, 73783, 73911)

The LDAP client library does not setup the SELECT call correctly for receiving network errors occurring over a TCP connection. Included in this APAR are debug enhancements made in route to resolving the subject issue.

APAR IR48934 (CMVC 73905)

Abstract: The LDAP client library abends when attempting to send a search request which includes an incorrectly structured filter composed of an imbalanced set of open and closed parentheses.

APAR IR49059 (CMVC 73911)

The LDAP client library prematurely terminates trace output to a file. When the first unbind is processed, the trace file is closed. This is contrary to tracing a multi-threaded application which has a connection in two or more threads. The fix is to have the file remain open until the linking application terminates.

Platforms

Linux operating system from Red Hat version 7.1 or higher, SuSe 7.2 or higher, or TurboLinux Version 6.5 or higher.

Refer to the the *IBM SecureWay Directory Version 3.2.2 for Linux: Installation, Configuration, and Administration Guide*, as well as the *IBM SecureWay Directory 3.2.2 Release Notes* for a complete description of supported platforms and platform specific requirements.

Dependencies

SecureWay Directory 3.2.2 must be installed.

The installation requires either of the following packages:

- ldap-clientd-3.2.2-1.i386.rpm

- ldap-clientd-3.2.2-1.i386.rpm and ldap-serverd-3.2.2-1.i386.rpm

If either of these packages are not installed, then the prerequisites for this patch are not in place.

Patch contents

The filename of this archive is named P322L-02B.tar.z. The contents of this archive include:

- This README file
- The file lib/libibldap.so
- The file lib/libibldapd.so
- The file lib/libldapstatic.a
- The file lib/libldapstaticd.a
- The file bin/P322L-02B.txt

Applying the patch

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

```
# cd $TEMP
# zcat P322L-02B.tar | tar -xvf -
```

2. Stop the SecureWay Directory servers, and any remaining application that uses the SecureWay Directory LDAP client library runtime which will be replaced.
3. Replace the installed version of each file with the version included in the archive. It is recommended to move or rename the currently installed file to a location outside of the LDAP installation filesystem. Then copy the extracted file to the correct location in the install folder. The install version location for the replaced file is:

```
$INSTALL_DIR/lib/libibldap.so
$INSTALL_DIR/lib/libibldapd.so
$INSTALL_DIR/lib/libldapstatic.a
$INSTALL_DIR/lib/libldapstaticd.a
```

The following file is a newly added file. There is no file of the same name to replace:

```
$INSTALL_DIR/bin/P322L-02B.txt
```

The default value for \$INSTALL_DIR is /usr/ldap.

4. Assign the correct owner, group, and permissions to the replaced file. Assume \$OWNER is the owner value in the installation files, and \$GROUP is the group value. The value of \$OWNER for the replaced file is ldap. The value of \$GROUP for the replaced file 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_DIR/lib/libibldap.so          755
$INSTALL_DIR/lib/libibldapd.so        755
$INSTALL_DIR/lib/libldapstatic.a      755
$INSTALL_DIR/lib/libldapstaticd.a     755
$INSTALL_DIR/bin/P322L-02B.txt        644
```

5. Start each of the replica and master servers.

Confirming the patch has been applied successfully

The patch has been applied successfully if all files included in the patch have replaced the pre-applied files of the same names. After applying the patch, if any facility making use of the SDK has degraded function as compared to its operation prior to application, please notify SecureWay Directory support personnel.

Below is some relevant information on the replacement files:

```
- Filesize for lib/libibldap.so      is 465435
- Filesize for lib/libibldapd.so    is 465435
- Filesize for lib/libldapstatic.a  is 510048
- Filesize for lib/libldapstaticd.a is 510016

- sum -r lib/libibldap.so          results are: 12277 xxxx
- sum -r lib/libibldapd.so         results are: 58478 xxxx
- sum -r lib/libldapstatic.a       results are: 28460 xxxx
- sum -r lib/libldapstaticd.a      results are: 27539 xxxx
```

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

The contents of the bin/P322L-02B.txt file are:

```
SecureWay Directory    Release: aus322ldap  Build: 020814a
```




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