



Patch P321A-05B README for SecureWay Directory 3.2.1 AIX Installations



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Contents

P321A-05B	1	Dependencies	1
General description	1	Patch contents	1
Problems fixed.	1	Applying the patch	2
Fixes provided by this patch	1	Confirming the patch has been applied successfully.	2
Platforms	1		

P321A-05B

Date: August 26, 2002

Patch: P321A-05B

Component: SecureWay® Directory 3.2.1 (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

AIX® 4.3.3 or higher with correct filesets and fixes. See server.txt README packaged with the base product.

Dependencies

P321A-05B requires the SecureWay Directory 3.2.1 at the efix 5 maintenance level.

Patch contents

The filename of this archive is named P321A-05B.tar.z. The contents of this archive include:

- This README file
- The file lib/libldap.a
- The file lib/libldapstatic.a
- The file bin/P321A-05B.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 P321A-05B.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/libldap.a
$INSTALL_DIR/lib/libldapstatic.a
```

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/libldap.a          755
$INSTALL_DIR/lib/libldapstatic.a    755
```

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/libldap.a          is 526077
- Filesize for lib/libldapstatic.a    is 700968
- sum -r libldap.a                    results are: 42912 xxxx
- sum -r libldapstatic.a              results are: 04655 xxxx
```

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



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