IBM

Patch P322L-02C README for IBM Directory Server 3.2.2 the Linux i386 operating system

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Contents

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Patch: P322L-02C

Date: March, 2003

IBM® SecureWay® Directory version 3.2.2 (128-bit Encryption Installations)

General description

The patch contains fixes for problems encountered in IBM SecureWay Directory version 3.2.2. The APAR number for the problem is listed in **Problems fixed**. Refer to the specific APAR for more detail.

For information on changes and fixes that occurred after the product documentation had been translated, see the *IBM SecureWay Directory version 3.2.2 README Addendum*. This file is in English only. This file can be found on the IBM Directory Server Library Web page using a link from

`http://www.ibm.com/software/network/directory/library/previous.html`

You can get to the latest information here:

`http://www.ibm.com/software/network/directory/library/v322/addendum322.pdf`

Problems fixed

New fixes in P322L-02C

APAR IR50068 (CMVC Defect 77479) - 3.2.2 returns attributes with blank values where 3.1.1.5 did not.

If you use the Directory Management Tool (DMT) to manage an entry and put blank spaces into the attribute value fields. When you dump the entry to an LDIF file using **db2ldif** command or the **ldapsearch** command with the **-L** option, you see unexpected characters such as "ICAg" and "ICA=" and "IA==" for the value of the attribute.

APAR IR50946 (CMVC Defect 78185) - IBM SecureWay Directory might terminate when a bind is attempted with very long password.

If you bind as a user whose password is encrypted using SHA encryption and the password that you use to bind is very long, the IBM SecureWay Directory might terminate.

APAR IR50956 (CMVC Defect 77585) -Members do not show up in groups after migrating from 3.2.1 to 3.2.2.

The currently documented method of migrating an IBM SecureWay Directory Server from version 3.2.1 to 3.2.2 needs to be changed.

There are two ways to perform the migration.

Method one:

This method provides several benefits. You have a backup copy of your data and the data is loaded into the new group formats which provides better support for large groups and better performance.

1. Export your data into an ldif file using the db2ldif command.

2. Migrate the server to version 3.2.2.

3. Import the data back into your database using the ldif2db command.

Method two:

Patch P322A-02C (see note) enables your pre-3.2.2 data to coexist with the 3.2.2 new group format without being corrupted.

1. Migrate directly from version 3.2.1 to 3.2.2. (A db2ldif backup is always recommended.)

2. Before running the server, apply mandatory patch P322A-02C.

Platforms

The IBM SecureWay Directory version 3.2.2 is supported on the following distribution levels of the Linux Operating System:

- SuSE Linux 7.2 or higher maintenance levels of version 7.2.
- RedHat Linux 7.1 or higher maintenance levels of 7.1.
- Turbolinux 6.5 or higher maintenance levels of 6.5.

See the *IBM SecureWay Directory version 3.2.2 Linux Installation, Configuration and Administration Guide* for additional Fix pack requirements.

```
http://www.ibm.com/software/network/library/v322/lparent.pdf
```

Dependencies

IBM Directory 3.2.2 with fix pack 2 must be installed.

DB2 Universal Database™ for Linux Personal, Workgroup, or Enterprise edition -version 7.1 or higher maintenance levels of DB2® 7.1.

Patch contents

The archive for this patch is named P322L-02C.tar.gz. The server install includes the following files:

```
File                                    bytes   sum -r
====================================    =======  ======
P322L-02C.filelist.server                  65   26681
P322L-02CReadme.pdf                      -----   -----
$INSTALL_DIR/lib/libback-rdbm.so      2686563   29979
$INSTALL_DIR/bin/P322L-02C.txt             61   65069
```

The default for $INSTALL_DIR is /usr/ldap.

Applying the patch

Note: Your replication environment must be cleaned or resynchronized, or both. See "Creating a replica" in Chapter 3, "Tasks," of the *IBM SecureWay Directory version 3.2.2 Linux Installation, Configuration and Administration Guide* at:

```
http://www.ibm.com/software/network/library/v322/lparent.pdf
```

1. For each machine targeted to receive the patch, make sure any servers are stopped, and any client applications linked to the shared libraries (including DMT) are stopped. Programs and libraries cannot be replaced while they are in use.

2. Copy the patch archive (P322L-02C.tar.gz) to a directory with sufficient free space to hold both the archive and a backup of the patched files (in case you

want to uninstall the patch). You need at least 60 MB for a full server install, less if patching a client only installation. Open a command prompt and type:

```
# su
# cd {directory where P322L-02C.tar.gz is}
# export INSTALL_DIR=/usr/ldap {or alternate IDS 3.2.2 install directory}
# export PATCH_DIR=`pwd`
# rm P322L-02C.filelist.*
```

All remaining steps use this command prompt.

3. Determine which packages are currently installed and extract the corresponding file list from the patch archive. At the command prompt type the following to determine which packages are installed:

```
# rpm -qa | grep ldap-
```

If the result includes **ldap-server-3.2.2-1** or **ldap-serverd-3.2.2-1**, then this is a server install. Extract P322L-02C.filelist.server from the archive.

Note: Installing the server package also upgrades DMT and client.

```
# zcat P322L-02C.tar.gz | tar xf - P322L-02C.filelist.server
```

4. This step is optional. Backup the existing files before applying the patch in case you need to uninstall the patch:

```
# cd $INSTALL_DIR
# tar -cvf $PATCH_DIR/P322L-02C.UNDO.tar `cat $PATCH_DIR/P322L-02C.filelist.*`
# compress $PATCH_DIR/P322L-02C.UNDO.tar
```

5. Apply the patch:

```
# cd $PATCH_DIR
# mkdir tmp
# cd tmp
# zcat ../P322L-02C.tar.gz | tar xf - `cat ../P322L-02C.filelist.*`
# cp -r * $INSTALL_DIR
# cd ..
# rm -rf tmp
```

Uninstalling the patch

This can only be done if you made a backup before installing the patch (see step 4, above). If so, then you can uninstall the patch by deleting $INSTALL_DIR/bin/P322L-02C* and extracting $PATCH_DIR/P322L-02C.UNDO.tar.gz:

```
# cd $INSTALL_DIR
# rm bin/P322L-02C*
# zcat $PATCH_DIR/P322L-02C.UNDO.tar.gz | tar -xvf -
```

Confirming the patch has been applied successfully

After installation, the file $INSTALL_DIR/bin/P322L-02C.txt contains the following:

```
IBM SecureWay Directory    Release: aus322ldap  Build: 030314a
```

All the files listed in $PATCH_DIR/P322L-02C.filelist.* match the files sizes and checksums listed in "Patch contents" on page 2.

Appendix. Notices

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