



Patch P322A-02C README for IBM
SecureWay Directory version 3.2.2 for the
AIX operating system



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Note

Before using this information and the product it supports, read the general information under “”, on page 5.

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Patch P322A-02C

Patch: P322A-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 P322A-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 levels of the AIX® Operating System:

- The AIX Operating System version 4.3.3 and on higher maintenance levels of AIX Release 4.3
- The AIX Operating System version 5.1L and on higher maintenance levels of AIX Release 5.1

Refer to the *IBM SecureWay Directory Version 3.2.2 for AIX Installation and Configuration Guide* for additional Fix pack requirements. See the IBM Directory 3.2.2 library at

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

Dependencies

IBM SecureWay Directory 3.2.2 with fix pack 2 must be installed.

- For AIX 4.3.3, DB2 Universal Database™ for AIX -Personal, Workgroup, Enterprise, or Extended Enterprise edition - version 6.1 with FixPack U475375 or higher maintenance levels of DB2 6.1.
- For AIX 5.1, DB2 Universal Database for AIX -Personal, Workgroup, Enterprise, or Extended Enterprise edition - version 7.1 with FixPack 3 or higher maintenance levels of DB2® 7.1. Versions of DB2 earlier than 7.1 FixPack 3 are not supported on AIX 5.1.

Patch contents

The archive for this patch is named P322A-02C.tar.Z. The server install includes the following files:

File	bytes	sum -r
=====	=====	=====
P322A-02C.filelist.server	64	35365
P322A-02CReadme.pdf	-----	-----
\$INSTALL_DIR/lib/libback-rdbm.a	5030958	60078
\$INSTALL_DIR/bin/P322A-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 "Replication" under the Reference section of the *IBM SecureWay Directory Version 3.2.2: Administration Helps* at:

<http://www.ibm.com/software/network/directory/library/publications/webadmin/parent.htm>

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.

Note: After stopping the clients and server, you must run `slibclean` to unload shared libraries from memory before they can be replaced.

2. Copy the patch archive (P322A-02C.tar.Z) 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 150 MB for a full server install, less if patching a client only installation. Open a command prompt and type:

```
# su
# slibclean
# cd {directory where P322A-02C.tar.Z is}
# export INSTALL_DIR=/usr/ldap {or alternate IDS 3.2.2 install directory}
# export PATCH_DIR=`pwd`
# rm P322A-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:

```
# ls|pp -l | grep ldap.server
```

If any filesets are listed, then this is a server install. Extract P322A-02C.filelist.server from the archive.

```
# zcat P322A-02C.tar.Z | tar -xf - P322A-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/P322A-02C.UNDO.tar `cat $PATCH_DIR/P322A-02C.filelist.*`
# compress $PATCH_DIR/P322A-02C.UNDO.tar
```

5. Apply the patch:

```
# cd $PATCH_DIR
# mkdir tmp
# cd tmp
# zcat ../P322A-02C.tar.Z | tar xf - `cat ../P322A-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 `$INSTALL_DIR/bin/P322A-02C*` and extracting `$PATCH_DIR/P322A-02C.UNDO.tar.Z`:

```
# cd $INSTALL_DIR
# rm bin/P322A-02C*
# zcat $PATCH_DIR/P322A-02C.UNDO.tar.Z | tar -xvf -
```

Confirming the patch has been applied successfully

After installation, the file `$INSTALL_DIR/bin/P322A-02C.txt` contains the following:

```
IBM SecureWay Directory      Release: aus3221dap  Build: 030314a
```

All the files listed in \$PATCH_DIR/P322A-02C.filelist.* match the files sizes and checksums listed in “Patch contents” on page 2.

Appendix.

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