



Patch P410S-000A README for IBM Directory Server 4.1 Solaris OS Server Installations



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Patch P410S-000A

Patch: P410S-000A

Date: June 30, 2002

IBM® Directory Server Version 4.1 (128-bit Encryption Server Installations)

General description

The Patch contains fixes for a single problems encountered in IBM Directory Server Version 4.1. 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 Directory Server Version 4.1 README Addendum*. This file is in English only. This file can also be found on the IBM Directory Server Library Web page using a link from <http://www-3.ibm.com/software/network/directory/library>. You can get to the latest information here:
<http://www-3.ibm.com/software/network/directory/library/v41/addendum41.pdf>

Problems fixed

New fixes in P410S-000A

APAR IR48471 (CMVC 69870 and 72520) – More granular locking is needed in the client code.

The LDAP client uses a single lock to control the flow of the APIs, so that at any given time an LDAP Descriptor (ld) is available to one API only. This works adequately for most operations because the operations get in the queue, wait their turn, perform their task, and then get out. However, in the one situation where `ldap_result()` is a factor, the operation might not be able to perform its task because the result might not yet be available.

Platforms

Solaris Operating Environment(TM) Software versions 7 and 8 or later.

Refer to the *IBM Directory Server Version 4.1 Installation and Configuration Guide for Multiplatforms*. for additional patch requirements. See the IBM Directory 4.1 library at <http://www-3.ibm.com/software/network/directory/library>.

Dependencies

IBM Directory 4.1 must be installed.

DB2 Universal Database™ for Solaris Enterprise edition - version 7.1 with FixPak 3 or later (DB2®).

Files replaced or added by this Patch

With \$INSTALL_DIR1 representing the root of the LDAP installation, the files replaced are:

```
$INSTALL_DIR/lib/libibmldap.a
$INSTALL_DIR/lib/libibmldapn.a
$INSTALL_DIR/lib/libldapstatic.a
$INSTALL_DIR/lib/libldapstaticn.a
```

The default for \$INSTALL_DIR1 is /opt/IBMldapc

Patch contents

The archive for this Patch is named P410S-000A.tar.Z. The archive for this Patch includes:

- This README file
- The file lib/libibmldapn.so
- The file lib/libldapstaticn.a
- The file lib/libibmldap.so
- The file lib/libldapstatic.a
- The file bin/P410S-000A.txt

Applying the Patch

Note: Your replication environment must be cleaned or resynched, or both. See Chapter 7, "Replication," of the *IBM Directory Server Version 4.1: Administration Guide* at:

<http://www->

[3.ibm.com/software/network/directory/library/publications/41/config/admin_gd.pdf](http://www-3.ibm.com/software/network/directory/library/publications/41/config/admin_gd.pdf)

1. Extract the Patch 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 P410S-000A.tar.Z
```

2. For each of the master and slave server installations targeted to receive the Patch, make sure the servers are stopped prior to applying the Patch.
3. Replace the installed version of each file with the version included in the Patch. 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_DIR1/lib/libibmldapn.so
$INSTALL_DIR1/lib/libldapstaticn.a
$INSTALL_DIR1/lib/libibmldap.so
$INSTALL_DIR1/lib/libldapstatic.a
$INSTALL_DIR1/bin/P410S-000A.txt
```

Again, the default for INSTALL_DIR 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 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_DIR1/lib/libibmldapn.so      755
$INSTALL_DIR1/lib/libldapstaticn.a    755
$INSTALL_DIR1/lib/libibmldap.so       755
$INSTALL_DIR1/lib/libldapstatic.a     755
$INSTALL_DIR1/bin/P410S-000A.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-Patch files of the same names. If after applying the Patch, any facility making use of the SDK has degraded function as compared to its pre-fix operation, please notify IBM Directory Server Version 4.1 support personnel.

Below is some relevant information on the replacement files:

```
- Filesize for LDAPIDIR/lib/libibmldap.so      is 1218792
- Filesize for LDAPIDIR/lib/libibmldapn.so     is 947896
- Filesize for LDAPIDIR/lib/libldapstatic.a    is 4121000
- Filesize for LDAPIDIR/lib/libldapstaticn.a   is 3895636
- sum -r LDAPIDIR/lib/libibmldap.so           results are: 58955 xxxx
- sum -r LDAPIDIR/lib/libibmldapn.so          results are: 23972 xxxx
- sum -r LDAPIDIR/lib/libldapstatic.a         results are: 06471 xxxx
- sum -r LDAPIDIR/lib/libldapstaticn.a        results are: 56139 xxxx
```

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

The contents of the bin/P410S-000A.txt file are:

```
IBM Directory Release: aus41ldap Build: 020610a
Mon 06/10/2002
```




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