Image Services

Oracle 9.2.0.4 Upgrade Procedures

IS Release 4.0.0

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Contents

4   Solaris   31

5   Windows Server   44

1
Oracle 9.2.0.4 Upgrade Procedures

This document contains procedures for upgrading the Oracle9i software on your FileNet Image Services 4.0.0 servers to Oracle 9.2.0.4.

The Oracle 9.2.0.4 Patch Set is distributed on CD-ROM to Image Services customers with FileNet-controlled Oracle instances. If Oracle is Site-controlled, the Database Administrator is responsible for obtaining and installing the patch set.

Important! This procedure is designed to support the installation of the 9.2.0.4 Oracle patch set for those systems that are using a FILENET runtime license of Oracle 9i. Systems that are using a full use Oracle license should not use this procedure, as there is a potential for data corruption and/or data loss.

Click the appropriate link to jump to the upgrade procedure for your specific Image Services platform:

2
AIX/6000

Prepare to Install the Patch Set

Stop the Image Services and Oracle Software

1 As **fnsw** user, make sure the Image Services and Oracle software is stopped. Enter:

  initfnsw -y stop

2 Make sure that all processes have been stopped by entering:

  whatsup

If the resulting display shows that any processes, such as TM_ daemon, are still active, enter:

  killfnsw -DAy

Disable Oracle Archive Logging (if applicable)

If Archive Logging is enabled on the server, you must disable it before you update the Oracle RDBMS software. Turning off Archive Logging will prevent non-essential records from being written to the log file and will speed the update.

1   As **fnsw** user, launch the FileNet System Configuration Editor by entering:

   fn_edit &

2   Click **OK** in the initial dialog box.

3   When the main System Configuration Editor window displays, click the Relational Databases tab.

   The Oracle sub-tab should be on top. If not, click the Oracle sub-tab to bring it to the front.

4   On the Oracle sub-tab, locate the **Log Archive Start** field. An **X** in this field indicates that Archive logging is turned off. If archive logging is already turned off, you may exit fn_edit (without saving changes) and skip to the section, .

5   A check mark indicates that Archive logging is turned on. Turn logging off by clicking the field. The field should change from a check mark to an **X**.

6   Exit the System Configuration Editor by selecting Exit from the File pulldown menu. Be sure to **save** your changes to the configuration database when you are prompted.

7   Rebuild the Oracle configuration files by entering:

   fn_build -a
   fn_util updaterdb

8   As **fnsw** user, start Oracle by entering:

   fn_util startrdb

9   Make sure archive logging is turned off by entering as **fnsw** user:

   sqlplus "/ as sysdba"

(The double-quotes are required; the space between **/** and **as** is optional.)

   SQL> **archive log list;**

Database log mode should indicate "Archive Mode." Automatic archival should indicate "Disabled."

10   Exit from sqlplus by entering:

   SQL> **exit**

Load the Oracle Patch Set 9.2.0.4 CD-ROM

1   Insert the first FileNet CD (Disk1) containing the Oracle Patch Set 9.2.0.4 for AIX/6000 Operating System.

2   Mount the CD-ROM using this command syntax:

   mount -rv cdrfs <device_name> <mount_point>

a   If you're not sure of the CD-ROM <device_name>, you can find it by entering:

   lsdev -C | grep cd

The CD-ROM device name will be similar to **/dev/cd0**.

b   The <mount_point> is a directory on the server. If a /cdrom directory does not already exist on the server for this purpose, enter:

mkdir /cdrom

Then, the mount command you enter should look like this example:

mount -rv cdrfs /dev/cd0 /cdrom

Set Environment Variables

1   As the **oracle** user, make sure the environment variables ORACLE_ HOME and ORACLE_SID are set correctly.

echo $ORACLE_HOME
echo $ORACLE_SID

2   ORACLE_HOME should point to the location of the Oracle 9.2.0 software, and ORACE_SID should be IDB, for example. To change them:

•   For Bourne or Korn shell, enter:

export ORACLE_HOME=<Oracle Home Directory>
export ORACLE_SID=<Oracle Site Identifier>

•   For C shell, enter:

setenv ORACLE_HOME <Oracle Home Directory>
setenv ORACLE_SID <Oracle Site Identifier>

3   Make sure the DISPLAY environment variable is set.

•   For Bourne or Korn shell, enter:

export DISPLAY=<host_identifier>:0

- For C shell, enter:

  setenv DISPLAY <host_identifier>:0

where <host_identifier> is the server identifier, either the server name or IP address.

4   Use the Oracle Universal Installer to install the Patch Set as described in the next section.

Launch the Oracle Universal Installer

1   As **oracle** user, launch the installer by entering:

  ./cdrom/runInstaller

2   On the Welcome screen, click the **Next** button to display the File Locations screen.

Welcome

The Oracle Universal Installer guides you through the installation and configuration of your Oracle products.

Click "Installed Products..." to see all installed products.

3   At the **Source...** entry field, click the *Browse...* button and navigate to the *stage* directory located on the CD-ROM. (The *stage* directory is located under the Disk1/ sub-directory on the CD.)

File Locations

Source...

Enter the full path of the file representing the product(s) you want to install:

Path: [▼] Browse...

Destination...

Enter or select an Oracle Home name and its full path:

Name: [OUIHome   ▼]

Path: [/usr/ora/920   ▼] Browse...

    4   Select the products.jar file. Click the **Next** button.
The products file will be read and the installer will load the product definitions. The products to be loaded are displayed on the Summary screen.

Enter path or folder name:

/cdrom/stage/

Filter	Files
[*.]*	install1.jar
	products.jar

Folders

..
Actions
Dialogs
Patch Sets

Enter file name:

products.jar

5 Before you install the patch set, you need to install the latest version of the Oracle Universal Installer, which is included with the patch set.

When you're prompted to select either the Oracle Universal Installer or the Oracle Patch Set, select:

Oracle Universal Installer 2.2.0.18.0

And click **Next**. When the Summary screen displays, click the **Install** button. Expect the installation to go very quickly.

6 After the installation has completed successfully, the installer displays:

End of Installation

7 After you've installed the latest version of the Oracle Universal Installer, click **Next Install**. This time, choose:

Oracle9iR4 9.2.0.4.0 Patch Set

8 Verify the products listed on the Summary screen.

Note Disregard the amount of space shown as Required. It assumes that all products will be installed, and is **not** accurate for this update. The amount of space you actually need is much less.

Summary
Oracle9iR4 Patchset 9.2.0.4.0

- Global Settings
  - Source : /cdrom/stage/products.jar
  - Oracle Home : /usr/ora/920 (OUIHome)
- Product Languages
  - English
- Space Requirements
  - /usr/ Required 131KB : Available 266MB
  - /usr/ora/920/ Required 1.12GB : Available 858MB
  - /tmp/ Required 59MB (only as temporary space) : Available 170MB
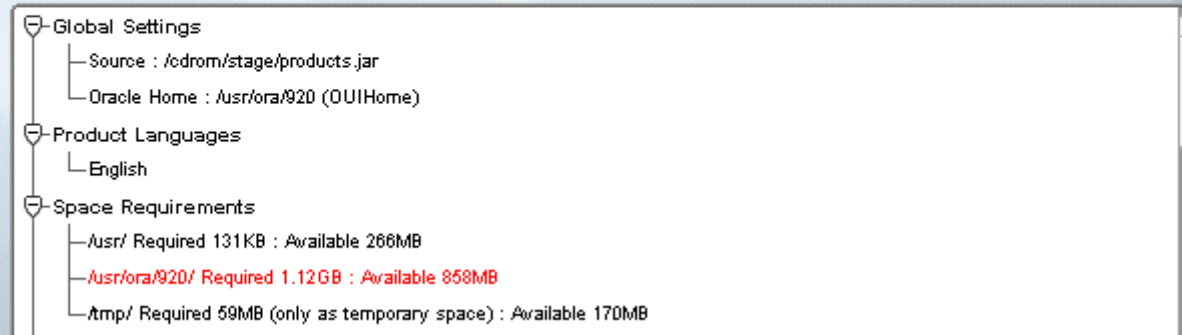
9 On the Summary screen, click the **Install** button. Expect the installation to take about an hour.

10 During the installation, you'll be prompted to insert Disk2.

    a   Unmount Disk1 by entering:

       umount /cdrom

    b   Remove Disk1, insert Disk 2, and mount Disk2:

       mount -rv cdrfs /dev/cd0 /cdrom

    c   Click OK in the prompt window to resume the installation.

11 If you encounter problems writing to a file during the installation process, as shown in the Error message below, change the permissions for the Oracle libraries and binaries.

You may need to take one of these actions:

- To add write permission for the owner of a file, enter:

    chmod u+w <filename>

- To change the ownership of a file, enter:

    chown oracle:dba <filename>

- To rename a file, enter:

    mv <filename> <newfilename>
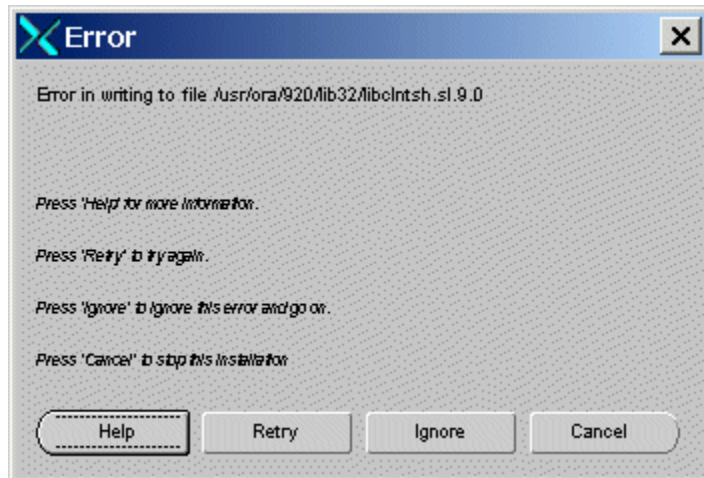
After you've made the appropriate change, click **Retry** on the Error screen to continue.

12 You'll be prompted to insert Disk1 again.

a Unmount Disk2 by entering:

    umount /cdrom

b Remove Disk2, insert Disk 1, and mount Disk1:

    mount -rv cdrfs /dev/cd0 /cdrom

c Click OK in the prompt window to continue.

13 When the installer prompts you to run the root.sh script, open a new X window and log on as **root** user to run $ORACLE_HOME/root.sh.

Accept the default values at any prompts you receive.

14 After the installation has completed successfully, the installer displays:

End of Installation

Click **Exit** and confirm to exit the installer.

15 Unmount Disk1.

umount /cdrom

Remove Disk1 from the CD-ROM drive and store it with Disk2 in a safe place.

After Installing the Patch Set

After the Patch Set has been successfully installed, you need to run the following SQL*PLUS commands on each database associated with this Oracle 9.2.0.4 instance.

1 As the **oracle** user, launch SQL*PLUS by entering:

sqlplus "/ as sysdba"

2 Start the database in migrate mode.

SQL> **startup migrate pfile = /fnsw/local/oracle/init.ora**

3 Begin spooling the output to a log file, and execute the catpatch.sql script to update the database with the newly patched software. This step will also take about an hour.

SQL> **spool patch.log**
SQL> **@$ORACLE_HOME/rdbms/admin/catpatch.sql**
SQL> **spool off**

4 Review the patch.log file for errors and correct any problems. If necessary, run the catpatch script again until no errors are reported.

5   Shutdown the database and then restart it to take it out of migrate mode.

> SQL> **shutdown**
> SQL> **startup pfile= /fnsw/local/oracle/init.ora**

6   This step is optional. It recompiles all invalid PL/SQL packages now rather than when accessed for the first time. Expect this step to take just a minute or so.

> SQL> **@$ORACLE_HOME/rdbms/admin/utlrp.sql**

7   Shutdown the database and exit from sqlplus by entering:

> SQL> **shutdown**
> SQL> **exit**

Re-enable Archive Logging (Optional)

If you disabled the Archive Logging feature on the server earlier in this procedure, now you can re-enable it. If you do not need to enable this feature, skip to .

1   As **fnsw** user, launch the FileNet System Configuration Editor by entering:

> **fn_edit &**

2   Click **OK** in the initial dialog box.

3   When the main System Configuration Editor window displays, click the Relational Databases tab.

The Oracle sub-tab should be on top. If not, click the Oracle sub-tab to bring it to the front.

4 On the Oracle sub-tab, locate the Log Archive Start field. An **X** in this field indicates that Archive logging is turned off. A check mark indicates that Archive logging is turned on.

Click the field to place a check mark in the field.

5 Exit the System Configuration Editor by selecting Exit from the File pulldown menu. Be sure to **save** your changes to the configuration database when you are prompted.

6 Rebuild the Oracle configuration files by entering:

fn_build -a
fn_util updaterdb

Return to Production Mode

After the Oracle Patch Set has been successfully installed, you can restart Oracle and Image Services, and resume normal processing.

Prepare to Install the Patch Set

Stop the Image Services and Oracle Software

1 As **fnsw** user, make sure the Image Services and Oracle software is stopped. Enter:

> **initfnsw -y stop**

2 Make sure that all processes have been stopped by entering:

> **whatsup**

If the resulting display shows that any processes, such as TM_ daemon, are still active, enter:

> **killfnsw -DAy**

Disable Oracle Archive Logging (if applicable)

If Archive Logging is enabled on the server, you must disable it before you update the Oracle RDBMS software. Turning off Archive Logging will prevent non-essential records from being written to the log file and will speed the update.

1   As **fnsw** user, launch the FileNet System Configuration Editor by entering:

    fn_edit &

2   Click **OK** in the initial dialog box.

3   When the main System Configuration Editor window displays, click the Relational Databases tab.

The Oracle sub-tab should be on top. If not, click the Oracle sub-tab to bring it to the front.

4   On the Oracle sub-tab, locate the **Log Archive Start** field. An **X** in this field indicates that Archive logging is turned off. If archive logging is already turned off, you may exit fn_edit (without saving changes) and skip to the section, .

5   A check mark indicates that Archive logging is turned on. Turn logging off by clicking the field. The field should change from a check mark to an **X**.

6   Exit the System Configuration Editor by selecting Exit from the File pulldown menu. Be sure to **save** your changes to the configuration database when you are prompted.

7   Rebuild the Oracle configuration files by entering:

    fn_build -a
    fn_util updaterdb

8   As **fnsw** user, start Oracle by entering:

    fn_util startrdb

9   Make sure archive logging is turned off by entering as **fnsw** user:

sqlplus "/ as sysdba"

(The double-quotes are required; the space between **/** and **as** is optional.)

SQL> **archive log list;**

Database log mode should indicate "Archive Mode." Automatic archival should indicate "Disabled."

10   Exit from sqlplus by entering:

SQL> **exit**

Create a Temporary File System

1   Use SAM to create a temporary file system named /ora9204. This file system should be **600 MB** or larger.

2   Give this new file system universal access privileges by entering:

chmod 777 /ora9204

Load the Oracle Patch Set 9.2.0.4 CD-ROM

1   Insert the FileNet CD containing the Oracle Patch Set 9.2.0.4 for the HP-UX Operating System.

2   As **root** user, mount the CD-ROM device on the /cdrom directory by entering a command similar to the following:

mount /dev/dsk/c2t2d0 /cdrom

where **/dev/dsk/c2t2d0** is the CD-ROM device file name.

3 Change to the new file system and extract the Patch Set archive file from the CD. Enter:

cd /ora9204
cpio -idcmv < /cdrom/9204_hpunix_Release.cpio

Set Environment Variables

As the **oracle** user, make sure the environment variables ORACLE_ HOME and ORACLE_SID are set correctly.

echo $ORACLE_HOME
echo $ORACLE_SID

ORACLE_HOME should point to the location of the Oracle 9.2.0 software, and ORACE_SID should be unchanged, e.g., IDB.

• For Bourne or Korn shell, enter:

export ORACLE_HOME=<Oracle Home Directory>
export ORACLE_SID=<Oracle Site Identifier>

• For C shell, enter:

setenv ORACLE_HOME <Oracle Home Directory>
setenv ORACLE_SID <Oracle Site Identifier>

4 Make sure the DISPLAY environment variable is set.

• For Bourne or Korn shell, enter:

export DISPLAY=<host_identifier>:0

- For C shell, enter:

    setenv DISPLAY <host_identifier>:0

    where <host_identifier> is the server identifier, either a name or IP address.

5 Use the Oracle Universal Installer to install the Patch Set as described in the next section.

Launch the Oracle Universal Installer

1 Change to the $ORACLE_HOME/bin directory where the Oracle Universal Installer is located.

For example:

cd /usr/ora/920/bin

2 Start the installer from the appropriate directory on your server:

./runInstaller

3 On the Welcome screen, click the **Next** button to display the File Locations screen.

Welcome

The Oracle Universal Installer guides you through the installation and configuration of your Oracle products.

Click "Installed Products..." to see all installed products.

4 Click the **Browse** button for the Source... entry field and navigate to the *stage* directory where it was copied onto the server's hard drive.

File Locations

Source...

Enter the full path of the file representing the product(s) you want to install:

Path: [   ] ▼ Browse...

Destination...

Enter or select an Oracle Home name and its full path:

Name: OUIHome

Path: /usr/ora/920   ▼ Browse...

5 Select the products.jar file. Click the **Next** button.
The products file will be read and the installer will load the product definitions. The products to be loaded are displayed on the Summary screen.

Enter path or folder name:

/ora9204/stage

Filter

[*.]*

Files

install1.jar
products.jar

Folders

..
Actions
Dialogs
Patch Sets

Enter file name:

products.jar

6   Before you install the patch set, you need to install the latest version of the Oracle Universal Installer, which is included with the patch set.

When you're prompted to select either the Oracle Universal Installer or the Oracle Patch Set, select:

Oracle Universal Installer 2.2.0.18.0

And click **Next**. When the Summary screen displays, click the **Install** button. Expect the installation to go very quickly.

7   After the installation has completed successfully, the installer displays:

End of Installation

8 After you've installed the latest version of the Oracle Universal Installer, click **Next Install**. This time, choose:
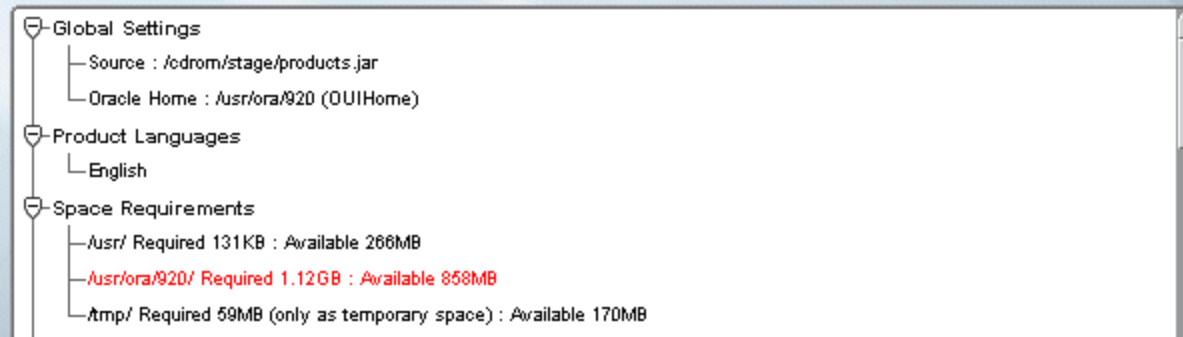
> **Oracle9iR4 9.2.0.4.0 Patch Set**

9 Verify the products listed on the Summary screen.

Note Disregard the amount of space shown as Required. It assumes that all products will be installed, and is **not** accurate for this update. The amount of space you actually need is much less.

Summary
Oracle9iR4 Patchset 9.2.0.4.0

```
□ Global Settings
  ├ Source : /cdrom/stage/products.jar
  └ Oracle Home : /usr/ora/920 (OUIHome)
□ Product Languages
  └ English
□ Space Requirements
  ├ /usr/ Required 131KB : Available 266MB
  ├ /usr/ora/920/ Required 1.12GB : Available 858MB
  └ /tmp/ Required 59MB (only as temporary space) : Available 170MB
```

10 On the Summary screen, click the **Install** button.   Expect the installation to take about an hour.

11 If you encounter problems writing to a file during the installation process, as shown in the Error message below, change the permissions for the Oracle libraries and binaries.

You may need to take one of these actions:

- To add write permission for the owner of a file, enter:

   chmod u+w <filename>

- To change the ownership of a file, enter:

   chown oracle:dba <filename>

- To rename a file, enter:

   mv <filename> <newfilename>

After you've made the appropriate change, click **Retry** on the Error screen to continue.

12 When the installer prompts you to run the root.sh script, open a new X window and log on as **root** user to run $ORACLE_HOME/root.sh.

Accept the default values at any prompts you receive.

13   After the installation has completed successfully, the installer displays:

      End of Installation

      Click **Exit** and confirm to exit the installer.

After Installing the Patch Set

After the Patch Set has been successfully installed, you need to run the following SQL*PLUS commands on each database associated with this Oracle 9.2.0.4 instance.

1   As the **oracle** user, launch SQL*PLUS by entering:

      sqlplus "/ as sysdba"

2   Start the database in migrate mode.

      SQL> **startup migrate pfile = /fnsw/local/oracle/init.ora**

3   Begin spooling the output to a log file, and execute the catpatch.sql script to update the database with the newly patched software. This step will also take about an hour.

      SQL> **spool patch.log**
      SQL> **@$ORACLE_HOME/rdbms/admin/catpatch.sql**
      SQL> **spool off**

4   Review the patch.log file for errors and correct any problems. If necessary, run the catpatch script again until no errors are reported.

5 Shutdown the database and then restart it to take it out of migrate mode.

> SQL> **shutdown**
> SQL> **startup pfile= /fnsw/local/oracle/init.ora**

6 This step is optional. It recompiles all invalid PL/SQL packages now rather than when accessed for the first time. Expect this step to take just a minute or so.

> SQL> **@$ORACLE_HOME/rdbms/admin/utlrp.sql**

7 Shutdown the database and exit from sqlplus by entering:

> SQL> **shutdown**
> SQL> **exit**

Re-enable Archive Logging (Optional)

If you disabled the Archive Logging feature on the server earlier in this procedure, now you can re-enable it. If you do not need to enable this feature, skip to **"Return to Production Mode" on page 30**.

1 As **fnsw** user, launch the FileNet System Configuration Editor by entering:

> **fn_edit &**

2 Click **OK** in the initial dialog box.

3 When the main System Configuration Editor window displays, click the Relational Databases tab.

The Oracle sub-tab should be on top. If not, click the Oracle sub-tab to bring it to the front.

4   On the Oracle sub-tab, locate the Log Archive Start field. An **X** in this field indicates that Archive logging is turned off. A check mark indicates that Archive logging is turned on.

Click the field to place a check mark in the field.

5   Exit the System Configuration Editor by selecting Exit from the File pulldown menu. Be sure to **save** your changes to the configuration database when you are prompted.

6   Rebuild the Oracle configuration files by entering:

   fn_build -a
   fn_util updaterdb

Return to Production Mode

After the Oracle Patch Set has been successfully installed, you can restart Oracle and Image Services, and resume normal processing.

4
Solaris

Prepare to Install the Patch Set

Note	Oracle provides both 32-bit and 64-bit versions of its Database Software on the Sun SPARC Solaris platform.

The 32-bit version of the Oracle database software can be run on the 32-bit or 64-bit version of the Solaris Operating Environment. The 64-bit version of the database software can only be run on the 64-bit version of the Solaris OE.

The **32-bit** version of a Patch Set **MUST ONLY** be installed on the 32-bit version of the Oracle database software (regardless of whether the Solaris Operating Environment is 32-bit or 64-bit).

The **64-bit** version of a Patch Set **MUST ONLY** be installed on the 64-bit version of the Oracle database software (which will be running on the 64-bit Solaris).

Stop the Image Services and Oracle Software

1   As **fnsw** user, make sure the Image Services and Oracle software is stopped. Enter:

initfnsw -y stop

2   Make sure that all processes have been stopped by entering:

    whatsup

If the resulting display shows that any processes, such as TM_ daemon, are still active, enter:

    killfnsw -DAy

Disable Oracle Archive Logging (if applicable)

If Archive Logging is enabled on the server, you must disable it before you update the Oracle RDBMS software. Turning off Archive Logging will prevent non-essential records from being written to the log file and will speed the update.

1   As **fnsw** user, launch the FileNet System Configuration Editor by entering:

    fn_edit &

2   Click **OK** in the initial dialog box.

3   When the main System Configuration Editor window displays, click the Relational Databases tab.

The Oracle sub-tab should be on top. If not, click the Oracle sub-tab to bring it to the front.

4   On the Oracle sub-tab, locate the **Log Archive Start** field. An **X** in this field indicates that Archive logging is turned off. If archive logging is already turned off, you may exit fn_edit (without saving changes) and skip to the section, .

5 A check mark indicates that Archive logging is turned on. Turn logging off by clicking the field. The field should change from a check mark to an **X**.

6 Exit the System Configuration Editor by selecting Exit from the File pulldown menu. Be sure to **save** your changes to the configuration database when you are prompted.

7 Rebuild the Oracle configuration files by entering:

> **fn_build -a**
> **fn_util updaterdb**

8 As **fnsw** user, start Oracle by entering:

> **fn_util startrdb**

9 Make sure archive logging is turned off by entering as **fnsw** user:

> **sqlplus "/ as sysdba"**

(The double-quotes are required; the space between **/** and **as** is optional.)

> SQL> **archive log list;**

Database log mode should indicate "Archive Mode." Automatic archival should indicate "Disabled."

10 Exit from sqlplus by entering:

> SQL> **exit**

Create a Temporary File System

1   Create a temporary file system named /ora9204. This file system should be **900 MB** or larger.

2   Give this new file system universal access privileges by entering:

chmod 777 /ora9204

Load the Oracle Patch Set 9.2.0.4 CD-ROM

1   Insert the approproate CD (32-bit or 64-bit) for your server configuration containing the Oracle Patch Set 9.2.0.4 for the Solaris Operating Environment. The CD mounts automatically.

2   Unzip the Patch Set file from the CD into the new directory:

cd /cdrom/cdrom0

• For 32-bit Oracle, enter:

unzip p3095277_9204_solaris.zip -d /ora9204

• For 64-bit Oracle, enter:

unzip p3095277_9204_solaris64.zip -d /ora9204

3   Change back to the root directory and remove the CD-ROM from the drive.

cd /
eject

4 Change to the new file system and extract the Patch Set archive file from the CD. Enter:

> **cd /ora9204**

- For 32-bit Oracle, enter:

> **cpio -idcmv < /ora9204/9204_solaris_release.cpio**

- For 64-bit Oracle, enter:

> **cpio -idcmv < /ora9204/9204_solaris64_release.cpio**

Set Environment Variables

1 As the **oracle** user, make sure the environment variables ORACLE_ HOME and ORACLE_SID are set correctly.

> **echo $ORACLE_HOME**
> **echo $ORACLE_SID**

ORACLE_HOME should point to the location of the Oracle 9.2.0 software, and ORACE_SID should be unchanged, e.g., IDB.

- For Bourne or Korn shell, enter:

> **export ORACLE_HOME=<Oracle Home Directory>**
> **export ORACLE_SID=<Oracle Site Identifier>**

- For C shell, enter:

    setenv ORACLE_HOME <Oracle Home Directory>
    setenv ORACLE_SID <Oracle Site Identifier>

2 Change to the $ORACLE_HOME/bin directory where the Oracle Universal Installer is located.

For example:

    cd /usr/ora/920/bin

3 Make sure the DISPLAY environment variable is set.

- For Bourne or Korn shell, enter:

    export DISPLAY=<host_identifier>:0

- For C shell, enter:

    setenv DISPLAY <host_identifier>:0

where <host_identifier> is the server identifier, either a name or IP address.

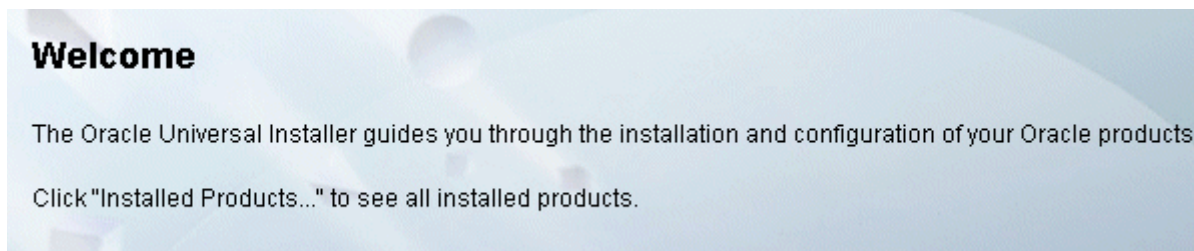**4** Use the Oracle Universal Installer to install the Patch Set as described in the next section.

Launch the Oracle Universal Installer

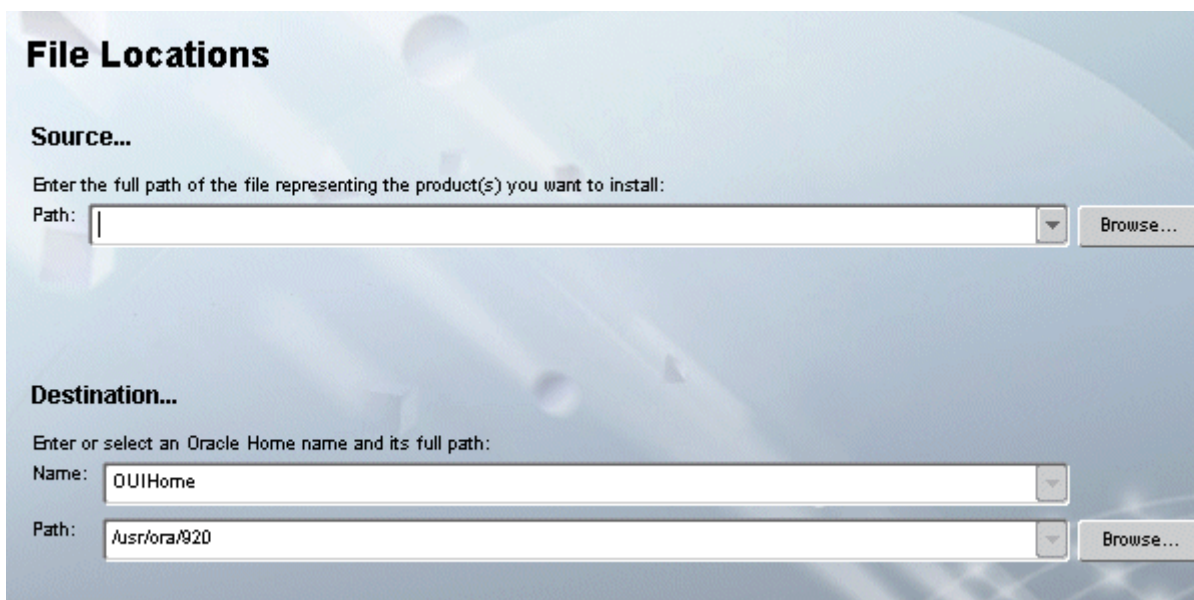**1** Start the installer from the appropriate directory on your server:

    ./runInstaller

2 Follow the steps below within the installer:

3 On the **Welcome** screen, click the *Next* button to display the **File Locations** screen.

Welcome

The Oracle Universal Installer guides you through the installation and configuration of your Oracle products.

Click "Installed Products..." to see all installed products.

4 At the **Source...** entry field, click the *Browse...* button and navigate to the *stage* directory located on the CD-ROM. (The *stage* directory is located under the Disk1/ sub-directory on the CD.)

File Locations

Source...

Enter the full path of the file representing the product(s) you want to install:

Path: | ▼   Browse...

Destination...

Enter or select an Oracle Home name and its full path:

Name: OUIHome   ▼

Path: /usr/ora/920   ▼   Browse...

5   Select the products.jar file. Click the **Next** button
The products file will be read and the installer will load the product def-
initions. The products to be loaded will be displayed.

6   Before you install the patch set, you need to install the latest version of
the Oracle Universal Installer, which is included with the patch set.

When you're prompted to select either the Oracle Universal Installer or
the Oracle Patch Set, select:

Oracle Universal Installer 2.2.0.18.0

And click **Next**. When the Summary screen displays, click the **Install**
button. Expect the installation to go very quickly.

7 After the installation has completed successfully, the installer displays:

End of Installation

8 After you've installed the latest version of the Oracle Universal Installer, click **Next Install**. This time, choose:

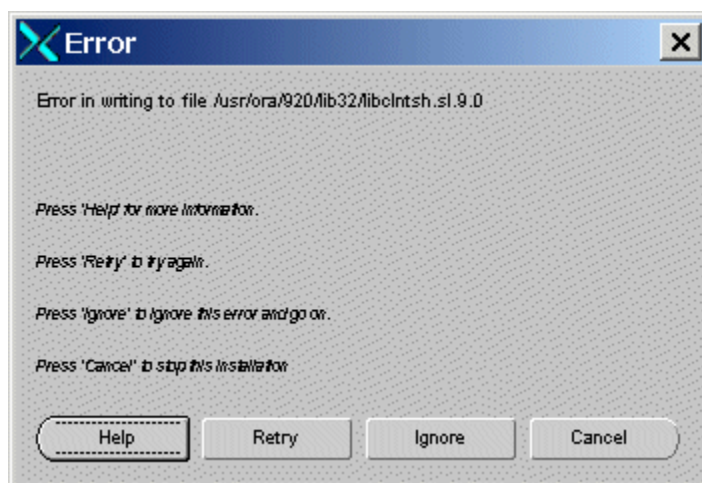**Oracle9iR4 9.2.0.4.0 Patch Set**

9 Verify the products listed on the Summary screen.

Note Disregard the amount of space shown as Required. It assumes that all products will be installed, and is **not** accurate for this update. The amount of space you actually need is much less.

10 On the Summary screen, click the **Install** button. Expect the installation to take about an hour.

11   If you encounter problems writing to a file during the installation process, as shown in the Error message below, change the permissions for the Oracle libraries and binaries.

You may need to take one of these actions:

* To add write permission for the owner of a file, enter:

    chmod u+w <filename>

* To change the ownership of a file, enter:

    chown oracle:dba <filename>

* To rename a file, enter:

    mv <filename> <newfilename>

After you've made the appropriate change, click **Retry** on the Error screen to continue.

12   When the installer prompts you to run the root.sh script, open a new X window and log on as **root** user to run $ORACLE_HOME/root.sh.

Accept the default values at any prompts you receive.

13   After the installation has completed successfully, the installer displays:

End of Installation

Click **Exit** and confirm to exit the installer.

After Installing the Patch Set

After the Patch Set has been successfully installed, you need to run the following SQL*PLUS commands on each database associated with this Oracle 9.2.0.4 instance.

1   As the **oracle** user, launch SQL*PLUS by entering:

sqlplus "/ as sysdba"

2   Start the database in migrate mode.

SQL> **startup migrate pfile = /fnsw/local/oracle/init.ora**

3   Begin spooling the output to a log file, and execute the catpatch.sql script to update the database with the newly patched software. This step will also take about an hour.

SQL> **spool patch.log**
SQL> **@$ORACLE_HOME/rdbms/admin/catpatch.sql**
SQL> **spool off**

4 Review the patch.log file for errors and correct any problems. If necessary, run the catpatch script again until no errors are reported.

5 Shutdown the database and then restart it to take it out of migrate mode.

> SQL> **shutdown**
> SQL> **startup pfile= /fnsw/local/oracle/init.ora**

6 This step is optional. It recompiles all invalid PL/SQL packages now rather than when accessed for the first time. Expect this step to take just a minute or so.

> SQL> **@$ORACLE_HOME/rdbms/admin/utlrp.sql**

7 Shutdown the database and exit from sqlplus by entering:

> SQL> **shutdown**
> SQL> **exit**

Re-enable Archive Logging (Optional)

If you disabled the Archive Logging feature on the server earlier in this procedure, now you can re-enable it. If you do not need to enable this feature, skip to **"Return to Production Mode" on page 43**.

1 As **fnsw** user, launch the FileNet System Configuration Editor by entering:

> **fn_edit &**

2 Click **OK** in the initial dialog box.

3   When the main System Configuration Editor window displays, click the Relational Databases tab.

The Oracle sub-tab should be on top. If not, click the Oracle sub-tab to bring it to the front.

4   On the Oracle sub-tab, locate the Log Archive Start field. An **X** in this field indicates that Archive logging is turned off. A check mark indicates that Archive logging is turned on.

Click the field to place a check mark in the field.

5   Exit the System Configuration Editor by selecting Exit from the File pulldown menu. Be sure to **save** your changes to the configuration database when you are prompted.

6   Rebuild the Oracle configuration files by entering:

fn_build -a
fn_util updaterdb

Return to Production Mode

After the Oracle Patch Set has been successfully installed, you can restart Oracle and Image Services, and resume normal processing.

5
Windows Server

Prepare to Install the Patch Set

Stop the Image Services and Oracle Software

1   Shut down the existing Oracle Server instance with normal or immediate priority. i.e., Shutdown all instances cleanly.

2   Stop all Oracle services. (e.g., TNSListener, OracleServiceIDB, etc.)

Disable Oracle Archive Logging (if applicable)

If Archive Logging is enabled on the server, you must disable it before you update the Oracle RDBMS software. Turning off Archive Logging will prevent non-essential records from being written to the log file and will speed the update.

1   Logon as Windows **Administrator**.

2   Open the Image Services System Configuration Editor.

On the Windows Taskbar, click the **Start** button, point to **Programs**, point to the **FileNet Image Services**, point to **System Configuration**, and click the **Configuration Editor** icon.

The Open Configuration Database dialog box displays.

3   Verify that the two-part domain information is correct in the Open Configuration Database dialog box and click **OK**.

4   When the main System Configuration Editor window displays, click the Relational Databases tab.

         The Oracle sub-tab should be on top. If not, click the Oracle sub-tab to bring it to the front.

5   On the Oracle sub-tab, locate the **Log Archive Start** field. An **X** in this field indicates that Archive logging is turned off. If archive logging is already turned off, you may exit fn_edit (without saving changes) and skip to the section, **"Load the Oracle Patch Set 9.2.0.4 CD-ROM" on page 45**.

6   A check mark indicates that Archive logging is turned on. Turn archive logging off by clicking the field to place an **X** in it.

7   Exit the System Configuration Editor by selecting Exit from the File pulldown menu. Be sure to **save** your changes to the configuration database when you are prompted.

8   Update the init.ora file and rebuild the Oracle configuration files by entering the following commands at a Command Prompt:

         fn_build -a
         fn_util updaterdb

Load the Oracle Patch Set 9.2.0.4 CD-ROM

1   Insert the CD containing the Oracle Patch Set 9.2.0.4 for Windows into the CD-ROM drive.

2 Unzip the Patch Set file from the CD onto the server's hard drive.

Launch the Oracle Universal Installer

1 Open a Command Prompt window and change to the following directory:

   <drive>:\<unzip_directory>\Disk1

2 Start the Patch Set installer by entering the following command:

   setup

The Welcome screen appears.

3 At the Welcome screen, click **Next**.

The File Locations dialog box appears.

4 In the Source...entry field, click the **Browse** button and navigate to the Stage directory.

Tip The Stage directory is located in the following directory structure:
   <drive>:\<unzip_directory>\Disk1\

5 Select the products.jar file, and click **Next**.

The products that will be loaded are displayed.

6 Verify the products listed and click the **Install** button.

Tip If a write error occurs, rename the noted file and select the retry option.

When the installation completes successfully, the End of Installation window will display.

7   Click **Exit** and confirm to exit the installer.

8   Reboot the Oracle server and log back on as Windows **Administrator**.

After Installing the Patch Set

To complete the installation of this patch set, you need to start up each database associated with the upgraded $ORACLE_HOME and log in using SQL*Plus (e.g., sqlplus "/as sysdba").

1   Run the following commands\scripts in order from $ORACLE_HOME within a MIGRATE session:

startup migrate pfile = <drive>:\fnsw_loc\oracle\init.ora

spool <drive>:\fnsw_loc\oracle\patch.log

@<drive>:\oracle\ora920\rdbms\admin\catpatch.sql

spool off

2   Review the patch.log file for errors and re-run the catpatch script after correcting any problems.

shutdown

startup pfile=<drive>:\fnsw_loc\oracle\init.ora

3   The following step is optional. It recompiles all invalid PL/SQL packages now rather than when accessed for the first time.

@<drive>:\oracle\ora920\rdbms\admin\utlrp.sql

4   Exit from sqlplus by entering:

exit

Enable Archive Logging (Optional)

If you disabled Archive Logging on your server earlier in this proce-
dure, now you can re-enable it. If you did not disable Archive Logging,
skip to the section, .

1   Open the Image Services System Configuration Editor.

The Open Configuration Database dialog box displays.

2   Verify that the two-part domain information is correct in the Open Con-
figuration Database dialog box and click **OK**.

3   When the main System Configuration Editor window displays, click the
Relational Databases tab.

The Oracle sub-tab should be on top. If not, click the Oracle sub-tab to
bring it to the front.

4   On the Oracle sub-tab, locate the Log Archive Start field. An **X** in this
field indicates that Archive logging is turned off. A check mark indi-
cates that Archive logging is turned on.

Click the field to place a check mark in the field.

5   Exit the Configuration Editor by selecting Exit from the File pulldown
menu. Be sure to save your changes to the configuration database
when you are prompted.

6   To complete this procedure, you must update the init.ora file and rebuild the Oracle configuration files by entering the following commands at a Comand Prompt:

> **fn_build -a**
> **fn_util updaterdb**

Return to Production Mode

After the Oracle Patch Set has been successfully installed, you can restart Oracle and Image Services, and resume normal processing.