Oracle® Application Server

Patch Set Notes

10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) for Linux and Microsoft Windows

June 2007

This document accompanies Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0).

This document contains the following sections:

1 What is a Patch Set?

Patch sets are a mechanism for delivering fully tested and integrated product fixes. Patch sets include all files that have been rebuilt to implement the bug fixes. All of the fixes in the patch set have been tested and are certified to work with one another. Because this patch set includes only low impact fixes, you are not required to certify applications or tools against the server (unless specifically instructed by your software vendor).

This patch set is cumulative and includes all of the fixes from Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 1 (10.1.3.1.0) and Oracle Application Server 10g Release 3 (10.1.3) Patch Set 2 (10.1.3.2.0).

Patch sets contain generic fixes that apply to all platforms and may also include platform-specific fixes.

See Also: To download free installation documentation, release notes, white papers, or other collateral, go to Oracle Technology Network (OTN). You must register online before using OTN; registration is free and can be done at:

`http://www.oracle.com/technology/membership`

If you already have a username and password for OTN, then you can go directly to the documentation section of the OTN Web site at:

`http://www.oracle.com/technology/documentation`

2 About This Patch Set

This section provides the following important information about Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0):

2.1 Oracle Application Server Releases Supported by This Patch Set

Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) is not a complete software distribution. You must install this patch set over an existing installation. Specifically, this patch set can be applied only to the following Oracle Application Server releases:

- Oracle Application Server 10*g* Release 3 (10.1.3.0.0)
- Oracle Application Server 10*g* Release 3 (10.1.3.1.0), which included the Oracle SOA Suite
- Oracle Application Server 10*g* Release 3 (10.1.3.2.0), which included the Oracle WebCenter Suite
- Any Oracle Application Server 10g Release 3 (10.1.3.n) standalone installation
- Any Oracle Application Server 10g Release 3 (10.1.3.n) that has been patched with 10*g* Release 3 (10.1.3) Patch Set 1 (10.1.3.1.0) or 10*g* Release 3 (10.1.3) Patch Set 2 (10.1.3.2.0)

Refer to the following sections for specific information about applying the patch set to each supported Oracle Application Server release:

2.1.1 Notes When Applying the Patch Set to a 10*g* Release 3 (10.1.3.0.0) Oracle Home

Oracle Application Server 10*g* Release 3 (10.1.3.0.0) was a significant new release that provided a complete Java 2 Platform, Enterprise Edition (J2EE) 1.4-compliant environment.

Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) updates specific software and configuration files contained in your existing 10*g* Release 3 (10.1.3.0.0) Oracle home. The result is improvements to the reliability and performance of the software.

In addition, Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) provides additional functionality to several key Oracle Application Server 10*g* Release 3 (10.1.3.0.0) features. For example, the -Xm[sx} flag specifies the initial size, in bytes, of the memory allocation pool for each OC4J instance. This value must be a multiple of 1024, and greater than 1MB. Append the letter k or K to indicate kilobytes, or m or M to indicate megabytes. The default value is 2MB if nothing is specified. It is the same as specifying –Xms2M. Note there is no space between –Xms, the number and the letter.

Table 1 provides a summary of the additional features available after you apply this patch set to a 10*g* Release 3 (10.1.3.0.0) Oracle home.

Table 1 New Features and Benefits for Oracle Application Server 10g Release 3 (10.1.3.0.0) Users

Feature Description	More Information
New Application Server Control Console features, including the ability to create OC4J instances, organize them into OC4J groups, and the ability to review and configure ports, routing IDs, and application server instances in a cluster topology.	"Introduction to Administration Tools" in the *Oracle Application Server Administrator's Guide*
Support for OC4J Java Single Sign-On (Java SSO), a lightweight single sign-on solution supplied with OC4J.	"Configuring Instances to Use OC4J Java Single Sign-On" in the *Oracle Application Server Administrator's Guide*
Support for Web Services Inspection Language (WSIL), a lightweight Web services directory protocol that provides an extensible schema for a single document catalog of services	"Web Service Inspection Language 1.0" in the *Oracle Application Server Web Services Developer's Guide*

In addition, after you apply Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) to your 10*g* Release 3 (10.1.3.0.0) Oracle home, you have the option of installing a set of Service Oriented Architecture (SOA) components (the Oracle SOA Suite) that developers can use to build and deploy industry-standard, SOA applications.

To support the new features provided by Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0), the patch set installation automatically updates the `opmn.xml` file in the 10*g* Release 3 (10.1.3.0.0) Oracle home as follows:

- The default group name is changed from `OC4J` to `default_group`.
- The `rmi` entries are changed to `rmis`.

- Each instance (except home) is put into a group of the same name as the instance.

For more information about managing Oracle Application Server instances, OC4J instances, and groups in 10*g* Release 3 (10.1.3.3.0), refer to the *Oracle Application Server Administrator's Guide* in the 10*g* Release 3 (10.1.3.2.0) Documentation Library on the Oracle Technology Network (OTN):

`http://www.oracle.com/technology/documentation`

You can also refer to the Oracle Enterprise Manager 10*g* Application Server Control online help.

2.1.2 Notes When Applying the Patch Set to a 10*g* Release 3 (10.1.3.1.0) Oracle Home

Oracle Application Server 10*g* Release 3 (10.1.3.1.0) was an update to the 10*g* Release 3 (10.1.3.0.0) release that improved the reliability and performance of 10*g* Release 3 (10.1.3.0.0) and provided some additional functionality.

Oracle Application Server 10*g* Release 3 (10.1.3.1.0) was designed specifically:

- For administrators who are using OC4J to deploy and manage J2EE applications
- As a platform for developing and deploying service-oriented architecture (SOA) applications

You can apply Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) to a 10*g* Release 3 (10.1.3.1.0) Oracle home or to a 10*g* Release 3 (10.1.3.0.0) Oracle home that has been patched to 10*g* Release 3 (10.1.3.1.0).

Note: If you performed an Oracle Application Server 10g Release 3 (10.1.3.n) standalone installation on top of a 10g Release 3 (10.1.3.n) installation, then this patch updates the core and standalone products only.

2.1.3 Notes When Applying the Patch Set to a 10*g* Release 3 (10.1.3.2.0) Oracle Home

Oracle Application Server 10*g* Release 3 (10.1.3.2.0) provides the 10*g* Release 3 (10.1.3.1.0) core J2EE functionality (OC4J, its related technologies and Oracle HTTP Server), and also provides support for the Oracle WebCenter Suite. Oracle WebCenter Suite includes Oracle WebCenter Services and Oracle Content DB.

If you installed Oracle Application Server 10*g* Release 3 (10.1.3.2.0) and the Oracle WebCenter Suite, then Oracle recommends that you apply Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) to update the core J2EE components.

Note: If you performed an Oracle Application Server 10g Release 3 (10.1.3.n) standalone installation on top of a 10g Release 3 (10.1.3.n) installation, then this patch updates the core and standalone products only.

2.2 What Happens When You Install the Patch Set

When you install Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0), the installation program updates specific software and configuration files contained in the selected Oracle Application Server middle-tier Oracle home. The Oracle home is the full path of the Oracle directory that contains the Oracle Application Server installation. *ORACLE_HOME* will be used in this documentation to refer to the directory where the product is installed.

Note: *ORACLE_HOME* should be replaced with the full path name of the installed Oracle Application Server instance.

This patch set updates the J2EE software for all the installation types for each of the supported releases. The patch set installation procedure automatically determines which set of software patches is appropriate for your installation.

For a list of products included in this patch set, see the Section 9, "Patch Set Components" section.

3 Patch Set Documentation

There are two documents related to this release of the Oracle Application Server patch set:

- *Oracle Application Server Patch Set Notes 10g Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) for Linux and Microsoft Windows* (this document). It provides the following information:
  - System requirements and instructions needed to apply or remove the patch set.
  - A list of known issues related to the Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0).

  The Linux document is contained in the file `/OracleAppServer10g_10.1.3.3_Linux_Patchset/doc/readme.html` in the patch set distribution.

  The Microsoft Windows document is contained in the file `\OracleAppServer10g_10.1.3.3_Windows_Patchset\doc\readme.html` in the patch set distribution.
- *Oracle Application Server Fixed Bugs List 10g Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0)*. It provides a list of all generic (common to all operating systems) bugs related to Oracle Application Server that have been fixed in this release, sorted by product group.

  The Linux document is contained in the file `/OracleAppServer10g_10.1.3.3_Linux_Patchset/doc/bugsfixed.html` in the patch set distribution.

  This Microsoft Windows document is contained in the file `\OracleAppServer10g_10.1.3.3_Windows_Patchset\doc\bugsfixed.html` in the patch set distribution.

These documents are also available on Oracle*MetaLink* at

In addition, the following Oracle*MetaLink* notes have information related to this patch set:

- Oracle*MetaLink* Note 435108.1 *Oracle Application Server Patch Set Notes Addendum 10g Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0)*
- Oracle*MetaLink* Note 397022.1 *Oracle Application Server 10g Release 3 (10.1.3) Support Status and Alerts*

OracleMetaLink is available at

`http://metalink.oracle.com`

4 Patch Set Requirements

Refer to your installation guide and release notes for the base requirements for your system.

Refer to the following sections for detailed patch set requirements:

- Section 4.1, "Required Software"
- Section 4.2, "Preinstallation Requirements"

Note: If your system does not meet one of the minimum requirements listed in this section, then log a service request to request assistance with this patch set.

4.1 Required Software

The following is a list of the required system software that must be installed before installing this patch set:

- Oracle Application Server 10*g* Release 3 (10.1.3.0.0), 10*g* Release 3 (10.1.3.1.0), or 10*g* Release 3 (10.1.3.2.0)

  You can verify the release number by checking the release number in the following properties file:

  - For Linux:

    ORACLE_HOME`/config/ias.properties`

  - For Microsoft Windows:

    ORACLE_HOME`\config\ias.properties`

- One of the following supported operating systems:
  - Linux
  - Microsoft Windows
- The latest release of Oracle Opatch, patch number 2617419, from Oracle*MetaLink* at

  `http://metalink.oracle.com`

  This requirement is for Microsoft Windows systems only with non-English installations. The Opatch utility should be unzipped in the Oracle home directory.

4.2 Preinstallation Requirements

The following list is the preinstallation requirements for this patch set:

- Ensure the system configuration meets the recommended system configuration described in your documentation.
- Ensure the environment variables for the `tmp` and `temp` directories for Microsoft Windows are set as described in the *Oracle Application Server Administrator's Guide*.
- Back up your Oracle software and inventory before applying this patch set, or before making any other changes to your existing Oracle software. Refer to your administrator's guide for instructions on backing up your Oracle software and inventory.

5 Patch Set Application

This section contains the following topics:

5.1 Applying Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0)

This section describes the application procedure for the Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0). It includes the following steps:

5.1.1 Back up Your Existing Environment

Oracle recommends that you make a backup of your existing environment before you install Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0). If you choose to remove Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0), or if you encounter a problem with application of the patch, then you can restore your original environment.

> **See Also:** "Introduction to Backup and Recovery" in the *Oracle Application Server Administrator's Guide* for complete information about Oracle Application Server Backup and Recovery.

5.1.2 Apply Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0)

The following procedure describes how to apply the patch set:

1. If you are applying 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) to a 10*g* Release 3 (10.1.3.0.0) Oracle home and your system uses Enterprise Javabeans 3.0 applications, then you must undeploy your applications before applying the patch.

   This step is not necessary if you are applying the patch set to a 10*g* Release 3 (10.1.3.1.0) or 10*g* Release 3 (10.1.3.2.0) Oracle home.

   The following procedure describes how to undeploy the applications:

   a. Log in to the Application Server Control Console as the same user name as the one used for the original installation. If the application is deployed to a specific OC4J instance, then navigate to the OC4J Home page for the OC4J instance. If the application is deployed to a group, then navigate to the Group page.

      See Also: 'Introduction to Administration Tools" in the *Oracle Application Server Administrator's Guide* for more information about Application Server Control

   b. Click **Applications** to display a list of the applications.

   c. Select the EJB 3.0 applications.

   d. Click **Undeploy**.

2. If you are applying Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) to a 10*g* Release 3 (10.1.3.0.0) Oracle home and your environment uses OracleAS Cold Failover Cluster topology, then you will need to perform the following steps:

   a. Open the `opmn.xml` file and search for the following line in the notification-server section:

      ```
      <ipaddr remote="virtual_hostname" request="virtual_hostname"/>
      ```

      If this entry does not appear, then add it to the `opmn.xml` file. In the preceding example, *`virtual_hostname`* is the actual virtual hostname. It should be the same as the VIRTUAL_HOSTNAME variable.

   b. Restart Oracle Process Manager and Notification Server (OPMN).

3. If you have edited the `dsa.conf` file, then make a copy of it. The file will be over-written during patch application.

4. If you use adapters, then make copies of the oc4j-ra.xml files. The files will be over-written during patch application.

5. Ensure the following values are set in the *`ORACLE_HOME`*`/owsm/bin/install.properties` file:

   ```
   install.http.host=hostname
   install.http.port=7777
   ```

6. Ensure the OC4J instances are running. You can check the status using the following command:

   - For UNIX:

     ```
     ORACLE_HOME/opmn/bin/opmnctl status
     ```

   - For Microsoft Windows:

```
ORACLE_HOME\opmn\bin\opmnctl status
```

7. Insert Disk1 of the Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) media, or navigate to the Disk1 subdirectory in the directory that contains the unpacked patch set software.
8. Start Oracle Universal Installer:
   - For Linux:

     Run the `runInstaller` command.
   - For Microsoft Windows:

     Double-click `setup.exe`.

   Table 2 describes the steps and screens you will encounter during the application of the patch set.

Note: The online help available during the installation procedure provides information for both a full installation of Oracle Application Server 10*g* Release 3 (10.1.3.1.0), as well as the patch set installation. As a result, it is not specific to the patch set installation procedure. Refer to Table 2 for specific information on using the Oracle Universal Installer screens to install 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0).

Table 2 Screens Displayed while Applying Oracle Application Server Patch

Screen	Action
Specify File Locations	The Specify File Locations screen allows you to verify the full path for the source and select a destination location for Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0): ■ **Source**: This is the full path to the `products.jar` file from which the product will be installed. If you started the installer by using the `runInstaller` command or the `setup.exe` file, then the installer detects and uses the default values of the `products.jar` file. Do not change the path. ■ **Name**: Select the name of the Oracle home you want to patch. Oracle homes are identified by name. When you select a name from the drop-down menu, the **Path** field is updated automatically to show the location of the selected Oracle home. ■ **Path**: This field is filled in automatically when you select an existing Oracle home from the **Name** drop-down menu. ■ **Browse**: Use this button to navigate the file system and select the source or destination locations.
Administrator (oc4jadmin) Password	Enter the `oc4jadmin` user password for the Oracle Application Server instance that is being patched. Click **Next**.
Prompt	This screen informs you that the middle tier will be shutdown. Click **OK**.
Summary	Verify your selections and click **Install**.
Install Progress	This screen shows the progress of the patch set installation.

Table 2 (Cont.) Screens Displayed while Applying Oracle Application Server Patch

Screen	Action
Configuration Assistants	This screen shows the progress of the configuration assistants. Configuration assistants configure components automatically at the end of the installation. The locations for specific Oracle Application Server configuration assistant log files are described in the *Oracle Application Server Installation Guide*.
End of Installation	Click **Exit** to quit the installer.

9. Replace the current `dsa.conf` file with the copy made in step 3.
10. Replace the oc4j-ra.xml files with the copies made in step 4.

5.2 Silent and Non-Interactive Patch Application

This section describes how to apply Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) either by silent or non-interactive methods:

- Use silent patch application when you want to do similar applications to more than one computer. You can also use silent patch application to apply the patch from a remote location using the command line.
- Use non-interactive patch application when you want to see specific screens, or when you want to enter some information interactively.

To do a silent or non-interactive patch application, you supply the installer with a text file called a response file. The installer uses the variables and parameter values in the response file to provide responses to some or all of the installer prompts.

5.2.1 Silent Installation

With silent installation, you do not need to monitor the installation because you do not enter information, and you do not have a graphical user interface to watch.

To do a silent installation, supply the installer with a response file and specify the `-silent` flag on the command line.

5.2.2 Non-interactive Installation

With non-interactive installation, the installer displays a graphical user interface as in a normal installation. If your response file does not have an entry for a particular installer prompt, then you must provide the response during the installation.

5.2.3 Response Files

You must create a response file before you apply the patch set. You can edit the response files with any text editor. Start by copying the response file template `oracle.as.j2ee.patchset.Custom.rsp` provided in the following directory of your Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0):

- For Linux: `stage/Response`
- For Microsoft Windows: `stage\Response`

In the template, parameters have three types of values:

- Constants
- Optional Values
- Required Values

The following sections describe the parameters.

- Constants

  These are text or Boolean values that are pre-set to give you a successful patch set application. Unless you are an advanced user, do not change these values.

  Examples:

  - Linux example:

    ```
    FROM_LOCATION="../stage/products.xml"
    SHOW_SUMMARY_PAGE=false
    ```

  - Microsoft Windows example:

    ```
    FROM_LOCATION="E:\Disk1\stage\products.xml"
    SHOW_SUMMARY_PAGE=false
    ```

- Optional Values

  When a parameter is set to the string `<Value Unspecified>`, the installer ignores the parameter. The installer either uses the default value for the parameter, or obtains the value from your current Oracle Application Server installation. Unless you are an advanced user, do not change these values.

  Examples:

  - Linux example:

    ```
    UNIX_GROUP_NAME=<Value Unspecified>
    ```

  - Microsoft Windows example:

    ```
    RESTART_SYSTEM=<Value Unspecified>
    ```

- Required Values

  When a parameter is set to the string `<Value_Required>`, you must replace the string with a text or Boolean value. For a silent patch application, if you do not supply a value, then the process will fail. For a non-interactive patch application, if you do not replace the string with a text or Boolean value, then the process will pause and display the normal screen that prompts for this value.

  The Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) application requires values for the following parameter:

  - `ORACLE_HOME`

    This is the full path of the Oracle home directory that contains the Oracle Application Server installation you want to patch.

    * For a silent patch application, you must update the entry

      ```
      ORACLE_HOME=<Value_Required>
      ```

with the path to your Oracle home, as follows:

For Linux: `ORACLE_HOME="/private/oracle/AppSrvHome"`

For Microsoft Windows: `ORACLE_HOME="C:\privateoracle\AppSrvHome"`

If you do not update the entry, then the process will fail.

* For a non-interactive patch application, if you do not update the entry, then the installer will pause and display the **File Locations** dialog.

5.2.4 Performing Silent or Non-interactive Patch Application

The following procedure describes how to perform silent or non-interactive patch application:

Note: If any files are in use during a silent patch application, such as a user has an open file, then the process may terminate. If that happens, then the open file must be determined and its corresponding process shut down. The patch application can be restarted after shutting down the process.

---

1. Copy the response file template from the product installation media to your computer.
2. Make the necessary changes to the copy of the file, and save it.
3. If you have edited the `dsa.conf` file, then make a copy of it. The file will be over-written during patch application.
4. Start the patch application. Specify the response file path and filename as the value of the installer's `responseFile` parameter. For a silent installation, also specify the `silent` parameter. In the following Microsoft Windows examples, E is the installation media drive.

   Examples:

   - Silent patch application:
     - For Linux:

       ```
       > ./runInstaller -silent -responseFile absolute_path_and_filename
       ```

     - For Microsoft Windows:

       ```
       E:\> setup.exe -silent -responseFile absolute_path_and_filename
       ```

   - Non-interactive patch application
     - For Linux:

       ```
       > ./runInstaller -responseFile absolute_path_and_filename
       ```

     - For Microsoft Windows:

       ```
       E:\> setup.exe -responseFile absolute_path_and_filename
       ```

5. Check the log files in your inventory directory for any errors. The log files are located in the following directory:

- For Linux:

  ```
  /oracle_inventory_path/logs/installActiontodays_date_time.log
  /oracle_inventory_path/logs/silentinstalltimestamp.log
  ```

  The value of *oracle_inventory_path* is stored in the following file:

  ```
  /var/opt/oracle/oraInst.loc
  ```

- For Microsoft Windows:

  ```
  C:\oracle_inventory_path\logs\installActiontodays_date_time.log
  C:\oracle_inventory_
  path\logs\installAction\silentinstalltimestamp.log
  ```

  The value of *oracle_inventory_path* is stored in the following file:

  ```
  C:\Program Files\Oracle\Inventory
  ```

  In the preceding examples, the C:\ drive is assumed to be the location of the file. To determine the location of the file, check the HKEY_LOCAL_MACHINE\SOFTWARE\Oracle\inst_loc registry entry.

The log file name has the format `installActions`*`todays_date_time`*`.log`.

6. Replace the current `dsa.conf` file with the copy made in step 3.

5.3 Applying the Patch Set in a Clustered Environment

If you are managing a 10*g* Release 3 (10.1.3.0.0), 10*g* Release 3 (10.1.3.1.0), or 10*g* Release 3 (10.1.3.2.0) cluster topology, then you can apply Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) to each application server instance in the cluster, as follows:

> **See Also:** Refer to *Oracle Application Server Enterprise Deployment Guide 10g Release 3 (10.1.3.1.0)* for more information about configuring ESB runtime instances.

1. Review the information in Section 2, "About This Patch Set" that applies specifically to the release you are updating.

   For example, if you are applying the patch set to a 10*g* Release 3 (10.1.3.0.0) environment, then be sure to carefully review the information in Section 2.1.1, "Notes When Applying the Patch Set to a 10g Release 3 (10.1.3.0.0) Oracle Home".

2. Use the instructions in Section 5.1, "Applying Oracle Application Server 10g Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0)" to apply the patch set to one application server instance in the cluster.

3. After the patch is applied, verify that the newly patched instance is up and running.

   For example, navigate to the Application Server Control Console and verify that the newly patched instance is listed as a member of the cluster. Verify that the instance is up and drill down to the application server home page or the OC4J Home page for that instance.

4. Perform any tasks described in Section 6, "Postapplication Tasks" that apply to your environment.
5. Repeat steps 2 through 4 for the remaining application server instances in the cluster.

Note: If you are patching a 10*g* Release 3 (10.1.3.0.0) cluster, then be sure to refer to the *Oracle Application Server Upgrade and Compatibility Guide* in the 10*g* Release 3 (10.1.3.1.0) documentation library for more information.

5.4 Re-application of the Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0)

During re-application of Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0), the **Available Product Components** screen is displayed. To continue with patch application, you must expand the component tree and manually select all of the components for patch re-application. Failure to do so will prevent successful re-application of Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0).

6 Postapplication Tasks

This section describes postapplication tasks for Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0). It contains the following topics:

6.1 Perform a Complete Backup

It is necessary to perform a complete backup of your Oracle Application Server environment after installing the patch set. This will ensure you can restore the newly patched environment.

In addition, if you are patching a 10*g* Release 3 (10.1.3.0.0) environment, then note that earlier backups will not work with the 10*g* Release 3 (10.1.3.2.0) Oracle Application Server Backup and Recovery Tool.

See Also: "Introduction to Backup and Recovery" in the *Oracle Application Server Administrator's Guide* for complete information about Oracle Application Server Backup and Recovery.

6.2 Run Upgrade Script on Patched Oracle Application Server 10*g* Release 3 (10.1.3.1.0)

If you applied 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) to a Oracle Application Server 10*g* Release 3 (10.1.3.1.0) instance, then you must do the following procedure:

1. Connect to the Oracle database as the orabpel user.
2. Run the following script based on your database and operating system:
   - For Linux: `upgrade_10131_10133_oracle.sql`

     The preceding script is located in the *ORACLE_HOME*`/bpel/system/database/scripts` directory.
   - For Microsoft Windows with Oracle Database: `upgrade_10131_10133_oracle.sql`

     The preceding script is located in the *ORACLE_HOME*`\bpel\system\database\scripts` directory.
   - For Microsoft Windows with Oracle Database Lite: `upgrade_10131_10133_olite.sql`

     The preceding script is located in the *ORACLE_HOME*`\bpel\system\database\scripts` directory.
3. Restart the instance.

6.3 Enable PHP

After applying Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0), you should enable PHP. The following procedure describes how to enable PHP:

1. Make the following modifications to the Oracle HTTP Server `httpd.conf` configuration file:
   a. Locate and open the Oracle HTTP Server configuration file:

      For Linux:

      ORACLE_HOME`/Apache/Apache/conf/httpd.conf`

      For Microsoft Windows:

      ORACLE_HOME`\Apache\Apache\conf\httpd.conf`

   b. Use the comment character (#) to comment the following PHP 4.0 directive:

      For Linux:

      ```
      #LoadModule php4_module libexec/libphp4.so
      #AddModule mod_php4.c
      ```

      For Microsoft Windows:

```
#LoadModule php4_module modules/php4apache.dll
#AddModule mod_php4.c
```

c. Add the following PHP 5.0 `LoadModule` directive:

For Linux:

```
LoadModule php5_module libexec/libphp5.so
AddModule mod_php5.c
```

For Microsoft Windows:

```
LoadModule php5_module modules/php5apache.dll
AddModule mod_php5.c
```

d. Add the following `AddType` directives:

```
AddType application/x-httpd-php .php .php5
AddType application/x-httpd-php-source .phps
```

e. Save and close the `httpd.conf` file.

2. Set the PHPRC environment variable to point to the `php5.ini` file:

- For Linux:

```
setenv PHPRC ORACLE_HOME/Apache/Apache/conf/php5.ini
```

- For Microsoft Windows:

```
set PHPRC = ORACLE_HOME\Apache\Apache\conf\php5.ini
```

6.4 Redeploy Applications that Use Custom Security Settings

If your applications were configured with custom security settings, such as using Oracle Single Sign-On, then you must reconfigure the applications and redeploy them after applying 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0).

6.5 Enable Java Single Sign-On

If you apply 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) to Oracle Application Server 10g Release 3 (10.1.3.0.0) installation, then you will need to edit the `jazn.xml` file enable Java Single Sign-On. After editing the `jazn.xml` file, you will need to restart the instance. Detailed instructions are provided in "Chapter 14 OC4J Java Single Sign-On" in *Oracle Containers for J2EE Security Guide 10g (10.1.3.1.0)*.

6.6 Deploy Your Enterprise Javabeans 3.0 Applications

If you are patching a 10*g* Release 3 (10.1.3.0.0) environment and you undeployed Enterprise Javabeans 3.0 applications before applying the patch set, then you must deploy them again after applying the patch set. The following procedure describes how to deploy an application:

1. Log in to the Application Server Control Console.
2. If the application will be deployed on a specific OC4J instance, then navigate to the OC4J Home page for the OC4J instance. If the application will be deployed to a group, then navigate to the Group page.
3. Click **Applications**.

4. Click **Deploy** and follow the instructions on the screen. If you need more information, then click **Help**.

6.7 Deploy the WSIL Application Manually

Oracle Application Server 10*g* Release 3 (10.1.3.1.0) and later support Web Services Inspection Language (WSIL). WSIL allows you to inspect all the Web services deployed on your instance.

If you are patching a 10*g* Release 3 (10.1.3.0.0) environment and you want to take advantage of WSIL, then you will need to deploy it manually. The following procedure describes how to deploy the WSIL application. It is assumed that you have a running instance of OC4J.

1. Log in to the Application Server Control Console.
2. Click **Applications** on the OC4J Home Page. This allows you to view the list of deployed applications.
3. Click **Deploy** to display the Deploy: Select Archive page.
4. Perform the following steps on the Deploy: Select Archive page:
   a. Select **Archive is already present on the server where Application Server Control is running**.
   b. Enter the following path to the `wsil-ias.ear` file:

      ```
      ../../webservices/lib/wsil-ias.ear
      ```

   c. Click **Next** to display the Deploy: Application Attributes page.
5. Perform the following steps on the Deploy: Application Attributes page:
   a. Enter a name for the WSIL application in the **Application Name** field.
   b. Ensure that **Parent Application** is set to default.
   c. Ensure that **Bind Web Module to Site** is set to default-web-site.
   d. Ensure that **Context Root** is set to `/inspection.wsil`.
   e. Click **Next** to open the Deploy: Deployment Settings page.
6. Click **Next** to deploy the WSIL application. The Confirmation Page will report that the WSIL application deployed successfully.
7. You can now access the WSIL application at the following Web address:

   `http://`*`hostname`*`:`*`port`*`/inspection.wsil`

   In the preceding URL, *hostname* is the host name of the server running OracleAS Web Services and *port* is the port number of the server running OracleAS Web Services.

6.8 Update Oracle Enterprise Service Bus Services

If Oracle Enterprise Service Bus is installed, and you plan to clone or change the IP or hostname of the machine that is hosting any of your middle-tier installations, then you must perform the following procedure:

See Also: For more information about updating Oracle Enterprise Service Bus services, refer to *Oracle Application Server Administrator's Guide 10g Release 3 (10.1.3.1.0)*.

1. Run the following script to set the Oracle Home and system variables:
   - For UNIX:

     ```
     ORACLE_HOME/integration/esb/bin/esbdevprompt.sh
     ```

   - For Microsoft Windows:

     ```
     ORACLE_HOME\integration\esb\bin\esbdevprompt.bat
     ```

2. In the command-line window from which you ran the script, run the following command to export the Oracle Enterprise Service Bus services:

   ```
   ant export-params
   -Dparamfile ORACLE_HOME\integration\DateTimeStamp\esbparam.properties
   -DDB_URL=jdbc_connectString:@//hostname:port/db_service_name
   -DDB_USER=oraesb -DDB_PASSWORD=esb_pwd
   -DDB_DRIVER=oracle.jdbc.driver.OracleDriver
   ```

   In the preceding command, *hostname* is the host containing the repository for Oracle Enterprise Service Bus, *port* is the port for the repository, *db_service_name* is the database service name, and *esb_pwd* is the password for the ORAESB user. For example, on Windows:

   ```
   ant export-params
   -Dparamfile ORACLE_HOME\integration\20060828_1503\esbparam.properties
   -DDB_URL=jdbc:oracle:thin:@//sta.example.com:1521/oexam.us.example.com
   -DDB_USER=oraesb -DDB_PASSWORD=ORAESB123
   -DDB_DRIVER=oracle.jdbc.driver.OracleDriver
   ```

3. Make the updates to your operating system to properly change the hostname, domain name, or both.
4. Restart the host, if necessary for your operating system.
5. Verify that you can ping the host from another host in your network. Be sure to ping using the new hostname to make sure everything is resolving properly.
6. Edit the `esbparam.properties` file as follows:
   - If you are changing the IP address or hostname, then change the DT_OC4J_HOST property to the new hostname. For example, if the new hostname is `newhost.oracle.com`, then the value of the property would be:

     ```
     DT_OC4J_HOST=newhost.example.com
     ```

   - If you are cloning a local machine, then update the DT_OC4J_HTTP_PORT to the new port.
   - If you are cloning a remote machine, then update the DT_OC4J_HOST property to the new hostname and the DT_OC4J_HTTP_PORT property to the new port.
7. Run the following command from the same command-line window used in step 2:

```
ant import-params
-Dparamfile ORACLE_HOME\integration\DateTimeStamp\esbparam.properties
-DDB_URL=jdbc_connectString:@//hostname:port/db_service_name
-DDB_USER=oraesb -DDB_PASSWORD=esb_pwd
-DDB_DRIVER=oracle.jdbc.driver.OracleDriver
```

In the preceding command, *hostname* is the host containing the repository for Oracle Enterprise Service Bus, *port* is the port for the repository, *db_service_name* is the database service name, and *esb_pwd* is the password for the ORAESB user. For example, on Windows:

```
ant import-params
-Dparamfile ORACLE_HOME\integration\20060828_1503\esbparam.properties
-DDB_URL=jdbc:oracle:thin:@//sta.example.com:1521/oexam.us.example.com
-DDB_USER=oraesb -DDB_PASSWORD=ORAESB123
-DDB_DRIVER=oracle.jdbc.driver.OracleDriver\
```

8. Start each middle-tier instance on your host by running the following command in each Oracle home:

   - For UNIX:

     ```
     ORACLE_HOME/opmn/bin/opmnctl startall
     ```

   - For Microsoft Windows:

     ```
     ORACLE_HOME\opmn\bin\opmnctl startall
     ```

9. If you disabled any processes to automatically start Oracle Application Server at the beginning of this procedure, then enable them.

10. Verify that the services are listed in the ESB Console and the applications run correctly.

6.9 Migrate and Redeploy Oracle ADF Applications

To ensure you apply all the bug fixes available with this patch, you must migrate and redeploy your Oracle ADF applications after applying Oracle Application Server 10*g* Release (10.1.3) Patch Set 3 (10.1.3.3.0). The following procedure describes how to migrate and redeploy the applications:

1. Download Oracle JDeveloper 10.1.3.3.0 from Oracle Technology Network (OTN) at

   http://www.oracle.com/technology/index.html

2. Migrate the workspaces as follows:

   - If you are installing Oracle JDeveloper 10.1.3.3.0 on the same system as Oracle JDeveloper 10.1.3.2.0, then click **Yes** at the prompt, "Do you want to migrate from a previous version of JDeveloper?", and point to the *JDEV_HOME*/jdev/system folder. All Oracle ADF application workspaces will be migrated at once.

   - If you are installing Oracle JDeveloper 10.1.3.3.0 on a different system than Oracle JDeveloper 10.1.3.2.0, then click **No** at the prompt, "Do you want to migrate from a previous version of JDeveloper?". Copy the workspaces for any Oracle ADF applications from the Oracle JDeveloper 10.1.3.2.0 instance to the Oracle JDeveloper 10.1.3.3.0 environment, and

open the application workspaces. When the prompt, "Do you want to migrate the workspace from a previous version?", is displayed, click **Yes**.

3. Repackage the Oracle ADF applications to new EAR files using Oracle JDeveloper. This will update the contained JAR files.
4. Deploy the EAR files to the target instance. See the *Oracle Application Development Framework Developer's Guide* for the deployment steps to be performed.

6.10 Postapplication Tasks For Oracle WebCenter Applications

After applying Oracle Application Server 10*g* Release (10.1.3) Patch Set 3 (10.1.3.3.0), you must perform the following tasks before using your Oracle WebCenter applications:

- Section 6.10.1, "Migrate and Redeploy Oracle WebCenter Applications that Use JCR Data Controls"
- Section 6.10.2, "Redefine Page Permissions for Migrated Applications"
- Section 6.10.3, "Copy Portlet Customizations from a 10g Release 3(10.1.3.2.0) Instance"
- Section 6.10.4, "Migrate Applications that Consume Portlets from Preconfigured OC4J"
- Section 6.10.5, "Migrate Applications that Consume OmniPortlets and WSRP Portlets from Preconfigured OC4J"
- Section 6.10.6, "Reconfigure Proxy Settings for Omniportlet and Web Clipping Producers"
- Section 6.10.7, "Re-create Export EAR Files with 10.1.3.3.0 Predeployment Tool"

6.10.1 Migrate and Redeploy Oracle WebCenter Applications that Use JCR Data Controls

If you have used JCR Data Controls to integrate and publish decentralized content in your Oracle WebCenter application, then to ensure that you can access the content repositories after applying Oracle Application Server 10*g* Release (10.1.3) Patch Set 3 (10.1.3.3.0), you must perform the following steps:

1. Perform steps 1 and 2 in Section 6.9, "Migrate and Redeploy Oracle ADF Applications".
2. Create an application server connection by performing the following steps:
   a. In the Connections Navigator, right-click **Application Server** and select **New Application Server Connection**.
   b. If you are on the Welcome page, click **Next** to display the Type page.
   c. In the Connection Name field, specify a name for your connection.
   d. From the Connection Type list, select **Standalone OC4J 10g 10.1.3**.
   e. Click **Next** to display the Authentication page.
   f. Specify the user name and password to be used for authentication to the OC4J instance.
   g. Click **Next** to display the Connection page.

h. Specify the host name and port number to be used for accessing the OC4J instance. Specify the host name to be `localhost` if the OC4J instance is installed on the same computer as Oracle JDeveloper.

i. Click **Finish**.

3. Repackage the Oracle WebCenter application to a new EAR file using Oracle JDeveloper. This will update the contained JAR files.

4. Deploy the EAR file to the target instance. See the *Oracle WebCenter Framework Developer's Guide* for the deployment steps to be performed.

Note: You must first associate the new application server connection with the Oracle WebCenter application. To do this, perform the following steps:

1. Under the Resources node, right-click the deployment profile that was created for the Oracle WebCenter application.
2. In the WAR Deployment Profile Properties dialog box, select **Platform** in the left pane, and under Target Connection, select the application server connection you just created.
3. Click **OK**.

6.10.2 Redefine Page Permissions for Migrated Applications

When you migrate your applications to 10*g* Release 3 (10.1.3.3.0), authorization information about secured pages is not migrated along with the applications. Therefore, if you had defined ADF security for the application before upgrading, then you must redefine page permissions in the 10*g* Release 3 (10.1.3.3.0) instance. See *Oracle WebCenter Framework Developer's Guide* for the steps to be performed.

6.10.3 Copy Portlet Customizations from a 10*g* Release 3(10.1.3.2.0) Instance

Customizations made to PDK-Java portlets deployed to the preconfigured OC4J, are stored within the PDK-Java application. Therefore, when you patch the Oracle Application Server instance from 10*g* Release 3 (10.1.3) Patch Set 2 (10.1.3.2.0) to 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0), the customizations you made for 10*g* Release 3 (10.1.3) Patch Set 2 (10.1.3.2.0) are not available. If you want these customizations to be available for 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) environments, you must perform the following steps:

1. Export the customizations using the `portlet-client-deploy.jar`.

   See *Oracle WebCenter Framework Developer's Guide* for the steps to export and import customizations.

2. Re-run the `portlet-client-deploy.jar` on EAR file and import the customizations.

3. Restart the OC4J_WebCenter instance.

6.10.4 Migrate Applications that Consume Portlets from Preconfigured OC4J

Perform this task if you clicked **No** to the prompt, "Do you want to migrate from a previous version of JDeveloper?" when you started the Oracle JDeveloper after applying 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0).

Customizations made to PDK-Java portlets that are deployed to the preconfigured OC4J, are stored within the PDK-Java application. Therefore, when you migrate portlets from a 10*g* Release 3 (10.1.3.2.0) instance and add them to your application page in a 10*g* Release 3 (10.1.3.3.0) instance, the customizations you made for 10*g* Release 3 (10.1.3) Patch Set 2 (10.1.3.2.0) are not available. If you want these customizations to be available for 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) environments, then you must manually copy the customizations to the application in the 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) instance.

Similarly, customizations made to Omniportlet and WSRP portlets in a 10*g* Release 3 (10.1.3) Patch Set 2 (10.1.3.2.0) instance must be manually copied from the `/portletdata` directory to the 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) instance. This ensures that the customizations made to these portlets are preserved in the 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) environment.

6.10.5 Migrate Applications that Consume OmniPortlets and WSRP Portlets from Preconfigured OC4J

Perform this task steps if you clicked **Yes** at the prompt, "Do you want to migrate from a previous version of JDeveloper?" when you started the Oracle JDeveloper after applying 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0).

In this case, customizations made to Omniportlet and WSRP Portlets will be migrated as a part of entire Oracle JDeveloper migration. However, customizations made to PDK-Java portlets must be manually copied to the 10.1.3.3.0 instance.

6.10.6 Reconfigure Proxy Settings for Omniportlet and Web Clipping Producers

If your application contains OmniPortlet and Web Clipping portlets, then you must reconfigure proxy settings for these portlets after applying Oracle Application Server 10*g* Release (10.1.3) Patch Set 3 (10.1.3.3.0). This must be done because the provider configuration information is not migrated from the 10*g* Release 3 (10.1.3.2.0) instance.

Refer to the appendix "Additional Portlet Configuration" in the *Oracle WebCenter Framework Developer's Guide* for information about configuring HTTP proxy settings for OmniPortlet and Web Clipping producers.

6.10.7 Re-create Export EAR Files with 10.1.3.3.0 Predeployment Tool

If you have imported customizations from 10*g* Release 3 (10.1.3.2.0) by creating the export EAR in 10*g* Release 3 (10.1.3.2.0), then the page is also exported with the customizations. As a result, when you make changes to your page in 10*g* Release 3 (10.1.3.3.0) and import customizations, you may lose the changes you made to the page before performing the import. To avoid pages being overwritten after an import, you must use the 10*g* Release 3 (10.1.3.3.0) predeployment tool and re-create all your exports EAR files that were created with a 10*g* Release 3 (10.1.3.2.0) predeployment tool.

See *Oracle WebCenter Framework Developer's Guide* for the steps to be performed.

7 Known Issues

The following sections are known issues for Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0):

7.1 Incompatibility Between Web Service and Client

After you apply Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) to a 10*g* Release 3 (10.1.3.0.0) environment, note the following.

- If you regenerate and redeploy the Web service, then there will be changes to the generated WSDL.
- If you try to use the 10*g* Release 3 (10.1.3.0.0) client against the service, then communications will fail with compiler errors.

You can work around these issues in the following ways:

- Do not reassemble the Web service EAR file. The WSDL will remain unchanged and the client will still be able to communicate with the service.
- If you must regenerate the Web service EAR file, then regenerate the client and add the suffix "`Element`" to the names of the classes that use the wrapper. It is assumed that the client uses the wrapper classes that were assembled with `unwrapParameters` set to `false`.

7.2 Web Services Based on EJB 3.0

If you apply Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) to a 10*g* Release 3 (10.1.3.0.0) environment, and you are working with

a release 3 (10.1.3.0.0) Web service assembled from EJB 3.0, then the WSDL will change when you redeploy the service. In this case, you must regenerate the client code in order for it to communicate with the service.

7.3 Testing Web Modules and Web Services When Using Oracle HTTP Server 10.1.2

Oracle Enterprise Manager Application Server Control provides test pages, which allow you to test the Web Modules and Web Services that you have deployed to your application server environment. In most cases, the test page provides a list of the Web sites and ports currently configured in your environment so you can select which Web site to use when testing the Web module or Web service URL.

> **See Also:** "Testing a Web Service" and "Overview of Managing Web Modules" in the Enterprise Manager online help

If you are using Oracle HTTP Server 10*g* Release 2 (10.1.2) as a front end to OC4J, then the list of Discovered Web sites on the test page may be empty. In those cases, you cannot use Application Server Control to test the Web module or Web service URL. Instead, open a new browser window and enter the URL for the Web module or Web service in the Address field of the browser.

> **See Also:** "Configuring Oracle Application Server 10.1.2 with Oracle Application Server 10.1.3" in the *Oracle Application Server Administrator's Guide* in the 10*g* Release 2 (10.1.3.2) documentation library

7.4 File Name Change for bc4j.ear File

Oracle Application Server 10g Release 3 (10.1.3.0.0) uses and deploys the `bc4j.ear` file with the default home instance. After applying Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0), the default file name for newly-created instances will be `datatags.ear`. There is no change in the content or functionality of the file.

7.5 Applying 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) More than Once

If you have applied 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0), then you should not apply the patch again. If you do, then you may get errors. For example, the following scenario is not supported by Oracle:

1. Installed Oracle Application Server 10*g* Release 3 (10.1.3) with the J2EE and Webserver option.
2. Installed Oracle Enterprise Service Bus 10*g* (10.1.3.1.0) standalone middle-tier option.
3. Applied 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0).
4. Installed Oracle BPEL Process Manager 10g (10.1.3.1) standalone middle-tier option or Oracle Web Services Manager 10g (10.1.3.1) middle-tier option.
5. Applied 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) to upgrade Oracle BPEL Process Manager to 110*g* Release 3 (10.1.3.3.0).

7.6 Installation Message

If you apply the patch to a system that has a standalone Oracle Containers for J2EE (OC4J) instance that is associated with Oracle Internet Directory 10*g* Release 2 (10.1.2.0.2) infrastructure, then the following messages may be displayed during patch application when prompting for the OC4J administrator's password:

```
The operation is unsupported.
```

This message can be ignored.

7.7 OC4J Transaction Support

The OC4J transaction manager for Oracle Application Server 10*g* Release 3 (10.1.3.1.0) contains a new feature called Recoverable Last Resource Commit (RLRC). The feature provides an enhanced recovery mechanism for Last Resource Commit (LRC) transactions and increases the overall performance of such transactions.

RLRC uses a database table to maintain a commit record of transaction IDs. This removes the need for a commit record in the OC4J transaction logs in the middle-tier. Writing commit records accounts for a large part of the performance cost of two-phase commit processing.

Note: Currently RLRC is available only when the non-XAResource participant is a database. In addition, because the commit record is maintained in this database, the database must be accessible in the event that recovery of such RLRC transactions is necessary.

Do the following procedure to set up the RLRC feature:

1. Stop the server if it is currently started.
2. Connect to the database that will persist the commit record, and run the following SQL script to install the required schema:

   J2EE_HOME/database/j2ee/jta/oracle/last_resource_commit.sql

3. Open the *J2EE_HOME*/config/data-sources.xml file. Edit or create a connection pool to access the commit record database and specify the commit-record-table-name attribute as part of the connection factory element.

   For example:

```
[...]
<connection-pool name="Example Connection Pool"
num-cached-statements='10'>
   <connection-factory factory-class="oracle.jdbc.pool.OracleDataSource"
      user="scott"
      password="tiger"
      url="jdbc:oracle:thin:@myServer:5521:main"
      commit-record-table-name="scott.OC4J_TX_RLRC_LOG">
        <property name="connectionCachingEnabled"  value="false"/>
        <property name="implicitCachingEnabled"  value="true"/>
        <property name="maxStatements" value="50"/>
    </connection-factory>
```

```
  </connection-pool>
[...]
```

Note: The name value for the `commit-record-table-name` attribute must be fully qualified, and the user credentials you specify must have delete and select privileges on this table.

4. (Optional). Open the *J2EE_HOME*`/config/transaction-manager.xml` file and modify the runtime behavior of the RLRC feature.

   For example:

```
[...]
<commit-coordinator>
   <middle-tier>
      <recovery retry-interval = "300" rlrc-min-purge-interval="10"
                rlrc-purge-size="1000">
   </middle-tier>
</commit-coordinator>
[...]
```

   In the preceding example, the following parameters were used:

   - `nrlrc-purge-interval` is the interval (in milliseconds) in which the batch purge of commit records in the database occurs.
   - `nrlrc-purge-size` is the size of the batch that will be deleted during the batch purge of commit records in the database.

7.8 Displaying Application Server Control Console After Applying the Patch Set

If you are patching a 10*g* Release 3 (10.1.3.1.0) Oracle home and you selected the following installation options when you installed the 10*g* Release 3 (10.1.3.1.0) Oracle home, then you may have trouble displaying Application Server Control Console:

- You selected the **Advanced Install** option
- You selected the **J2EE Server, Web Server and SOA Suite** installation type
- You configured the instance to serve as an Administration OC4J instance

If you cannot display the Application Server Control Console after installing 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) with these options selected, then the `server.xml` files in your application server instance may have become corrupted during the installation.

Do the following to correct the problem:

1. Use a text editor to open the `server.xml` file for the `home` OC4J instance:

   ORACLE_HOME`/j2ee/home/config/server.xml`

2. Make sure that the following entry exists in the `server.xml` file for the home instance:

```
<global-application name="default" path="application.xml" parent="system"
start="true" />
```

3. Save and close the `server.xml` file for the home instance.
4. Use a text editor to open the `server.xml` file for the oc4j_soa OC4J instance:

   ORACLE_HOME`/j2ee/oc4j_soa/config/server.xml`

   Note: oc4j_soa is the default name of the second OC4J instance installed by the **Advanced Install** option. If you entered a different name for this instance on the Administration Settings screen of the installer, then replace oc4j_soa in the preceding example with the name you entered on the Administration Settings page.

5. Make sure that the following entry exists in the `server.xml` file for the oc4j_soa instance:

   ```
   <application name="ascontrol"
   path="../../home/applications/ascontrol.ear" parent="system"
   start="false" />
   ```

6. Save and close the `server.xml` file for the oc4j_soa instance.
7. Stop and then start both the home instance and the oc4j_soa instance.

   Caution: To prevent this problem from happening again, do not use the `opmnctl startall` command to start the application server instance. Instead, each time you need to restart the application server instance, be sure to use the following separate commands to stop and restart each component of the application server:

   ```
   opmnctl start
   opmnctl startproc process-type=<OC4J instance name 1>
   opmnctl startproc process-type=<OC4J instance name 2>
   opmnctl startproc process-type=<Oracle HTTP Server instance name>
   ```

   See Also: "Starting and Stopping" in the *Oracle Application Server Administrator's Guide*

   The latest *Oracle Application Server 10g Release 3 (10.1.3.1.0) Release Notes* is available in the 10*g* Release 3 (10.1.3.1.0) documentation library on the Oracle Technology Network

7.9 Accessing Oracle Enterprise Manager after Applying Patch

In rare cases, you may be unable to display the Oracle Enterprise Manager Application Server Control Console after applying the patch set. If this problem occurs, then verify that at least one of the Application Server Control applications deployed in your cluster topology is configured to receive requests from your Web browser and to start automatically whenever the application server is started.

In order to access Oracle Enterprise Manager after applying the patch, you may need to update the ohs_routable property in the `ORACLE_HOME/j2ee/home/config/default-web-site.xml` file. The property should be set to true, as shown in the following:

```
ohs-routable=true
```

See Also: Identifying and Configuring a New Active Application Server Control" in *Oracle Application Server Administrator's Guide 10g Release 3 (10.1.3.2.0)*

7.10 Redo Log Directories in a High Availability Disaster Recovery Setup

If the redo logs for the primary database are located in several directories, then the standby database must include the similar directories. If the standby database does not include the directories, then the `create standby database` command gives the following error:

```
standby: -->ASG_ORACLE-300: ORA-00301: error in adding log file
'/oradata/test123/redo010.log' - file cannot be created
standby: -->ASG_ORACLE-300: ORA-27040: file create error, unable to create
file
standby: -->ASG_DUF-3700: Failed in SQL*Plus executing SQL statement:
ALTER DATABASE ADD STANDBY LOGFILE GROUP 10
'/oradata/test123/redo010.log' SIZE 52428800 /*
ASG_DGA */;.
standby: -->ASG_DUF-3535: Failed to create standby redo log.
standby: -->ASG_DUF-3535: Failed to create standby redo log.
```

If this error occurs, then ensure that all the directories for the redo logs in the primary database also exist on the standby. This is applicable for Real Application Clusters (RAC) databases and non-RAC databases used with Oracle SOA Suite and Oracle WebCenter Suite installations.

7.11 TaskManager Is Not Listed Under Deployed Processes in Oracle BPEL Control

TaskActionHandler and TaskManager should appear as deployed processes in OracleBPEL Control. If TaskManager does not appear, then refer to Section 8.3.4 in *Oracle Application Server Release Notes 10g Release 3 (10.1.3.1.0)*.

7.12 BPEL Error Message during Shutdown

After applying the patch set, the following BPEL error may appear during shutdown. This message can be ignored.

```
May 6, 2007 9:38:48 AM org.apache.axis.transport.http.AxisServlet
processAxisFault
INFO: AxisFault:
AxisFault
faultCode: {http://schemas.xmlsoap.org/soap/envelope/}Server.userException
faultSubcode:
faultString: java.lang.NullPointerException
faultActor:
faultNode:
faultDetail:
(http://xml.apache.org/axis/}stackTrace: java.lang.NullPointerException
at
oracle.classloader.CodeSourceSearchPolicy$Linear.firstEntry(CodeSourceSearch
Policy.java:189)
at
```

```
oracle.classloader.CodeSourceSearchPolicy.findResourceBytes(CodeSourceSearch
Policy.java:53)
at
oracle.classloader.PolicyClassLoader.findLocalClass(PolicyClassLoaderjava:
1455)
at oracle.classloader.SearchPolicy$FindLocal.getClass(SearchPolicy.java:167)
at oracle.classloader.SearchSequence.getClass(SearchSequence.java:119)
at oracle.classloader.SearchPolicy.loadClass(SearchPolicy.java:645)
at
oracle.classloader.SearchPolicy$CheckSharedLibraries.getClass
(SearchPolicyjava:396)
```

7.13 OC4J_WebCenter Instance Log Error

The following error may appear in the OC4J WebCenter instance log. This message can be ignored.

```
WARNING: Code-source
/scratch/aime1/work/portal3861/j2ee/OC4J_
WebCenter/applications/jpdk/pdkstruts
/WEB-INF/lib/commons-logging.jar (from WEB-INF/lib/ directory in
/scratch/aime1/work/portal3861/j2ee/OC4J_
WebCenter/applications/jpdk/pdkstruts
/WEB-INF/lib) has the same filename but is not identical to
/scratch/aime1/work/portal3861/webservices/lib/commons-logging.jar (from
<code-source> (ignore manifest Class-Path) in META-INF/boot.xml in
/scratch/aime1/work/portal3861/j2ee/home/oc4j.jar). If it contains different
versions of the same classes, it will be masked as the latter is already
visible in the search path of loader jpdk.web.pdkstruts:0.0.0.
Apr 25, 2007 2:37:27 AM org.apache.struts.util.PropertyMessageResources
<init>
INFO: Initializing, config='org.apache.struts.util.LocalStrings',
returnNull=true
Apr 25, 2007 2:37:27 AM org.apache.struts.util.PropertyMessageResources
<init>
INFO: Initializing, config='org.apache.struts.action.ActionResources',
returnNull=true
Apr 25, 2007 2:37:28 AM org.apache.struts.util.PropertyMessageResources
<init>
INFO: Initializing,
config='oracle.portal.sample.v2.devguide.struts.messages', returnNull=true
/scratch/aime1/work/portal3861/j2ee/OC4J_
WebCenter/application-deployments/portletapp/wsrp-samples/oasis/names/tc/wsrp
/v2/bind/runtime/WSRP_v2_PortletManage
ment_Binding_SOAP_Tie.java:930: cannot find symbol
symbol  : method getPortletLifetime(javax.xml.soap.SOAPElement)
location: interface
oracle.portlet.wsrp.v2.soap.WSRP_v2_PortletManagement_PortType
                _response =
((oracle.portlet.wsrp.v2.soap.WSRP_v2_PortletManagement_PortType)
getTarget()).getPortletLifetime(mySOAPElement);
                            ^
1 error
WARNING: Code-source
/scratch/aime1/work/portal3861/j2ee/OC4J_
WebCenter/applications/richtextportle
t/richtextportlet/WEB-INF/lib/adfshare.jar (from WEB-INF/lib/ directory in
/scratch/aime1/work/portal3861/j2ee/OC4J_
WebCenter/applications/richtextportle
```

```
t/richtextportlet/WEB-INF/lib) has the same filename but is not identical to
/scratch/aime1/work/portal3861/BC4J/lib/adfshare.jar (from <code-source> in
/scratch/aime1/work/portal3861/j2ee/OC4J_WebCenter/config/server.xml). If it
contains different versions of the same classes, it will be masked as the
latter is already visible in the search path of loader
richtextportlet.web.richtextportlet:0.0.0.
/scratch/aime1/work/portal3861/j2ee/OC4J_
WebCenter/application-deployments/richtextportlet/richtextportlet/oasis/names
/tc/wsrp/v2/bind/runtime/WSRP_v2_Portl
etManagement_Binding_SOAP_Tie.java:1256: cannot find symbol
symbol  : method getPortletLifetime(javax.xml.soap.SOAPElement)
location: interface
oracle.portlet.wsrp.v2.soap.WSRP_v2_PortletManagement_PortType
                _response =
((oracle.portlet.wsrp.v2.soap.WSRP_v2_PortletManagement_PortType)
getTarget()).getPortletLifetime(mySOAPElement);
1 error"
```

7.14 Display of BC4J -JSP Application Error Page

When running a BC4J-JSP application which includes charts, an application error may display an error page with unneeded system information / directory paths. The system information should not be displayed to the user.

Workaround

There are two options for the application programmer. One option is to edit the error page to remove the system information. The other option is to edit the error page and provide an appropriate error message. Both options are described in the following:

- To remove the system information, edit the error-page.jsp page to comment out the error message, such as the following:

  ```
  <%-- Error Message: = exception.getMessage() --%>
  ```

- To provide an appropriate error message, edit the error-page.jsp page to include the message such as the following:

  ```
  Error Message: This error is due to a problem with the chart.Please
  contact support for more information.
  ```

7.15 Oracle Process Manager and Notification Server Log Error s During Patch Application

The following errors may appear in the Oracle Process Manager and Notification Server log. These messages can be ignored.

- Error when database is being patched to 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0):

  ```
  Syntax error on line 278 of
  c:/work/portal2959/apache/apache/conf/httpd.conf:
  Cannot load c:/work/portal2959/apache/apache/modules/apachemoduleossl.dll
  into server: (127) The specified procedure could not be found:
  ```

- Error when Oracle BPEL is being patched to 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0):

  ```
  "07/05/27 16:21:21 java.lang.NullPointerException 07/05/27 16:21:21 at
  ```

```
com.evermind.server.ejb.StatelessSessionBeanPool.beforePassToClient
(StatelessSessionBeanPool.java:52) 07/05/27 16:21:21 at
com.evermind.server.ejb.StatelessSessionBeanPool.createContextImpl
(StatelessSessionBeanPool.java:35) 07/05/27 16:21:21 at
com.evermind.server.ejb.BeanPool.createContext(BeanPool.java:418)
07/05/27 16:21:21 at
com.evermind.server.ejb.BeanPool.allocateContext(BeanPool.java:244)
07/05/27 16:21:21 at "
```

7.16 Oracle Business Rules Help Error Messages (Microsoft Windows only)

During application of 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) on Microsoft Windows, an error similar to the following will be logged when undeploying Oracle Business Rules help. Warning messages will be logged when redeploying Oracle Business Rules help. These error messages and warnings can be ignored.

```
WARNING: ApplicationUnDeployer.removeFiles WARNING: Unable to remove appDir
C:\WORK\soa623\j2ee\home\applications\rulehelp : Unable to remove
C:\WORK\soa623\j2ee\home\applications\rulehelpjava.io.IOException: Unable to
remove C:\WORK\soa623\j2ee\home\applications\rulehelp at
oracle.oc4j.util.FileUtils.recursiveRemove(FileUtils.java:258)
```

Also during installation, the following error will be logged for the OC4J instance running Oracle Business Rules. This error can be ignored.

```
critical error in OHW configuration. Config URL:
file:/C:/WORK/soa3597/j2ee/home/applications/rulehelp/rulehelp/helpsets/
ohwcon fig.xml:HelpSet 'ruleauthor' : Unknown error when parsing hs file:
No toplevel tag in helpset file"
```

8 Fixed Platform-Specific Bugs for Microsoft Windows

Table 3 describes the bugs fixed for Microsoft Windows in the Oracle Application Server 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0).

Table 3 Fixed Platform-Specific Bugs for Microsoft Windows

Bug Number	Fixed in Release	Description
10.1.3.1	4496308	Timeouts occur erroneously or do not occur at the correct time
10.1.3.1	6047201	Custom exception in a SOAP message did not get deserialized in a jaxws client, resulted in a SOAPFaultException.

9 Patch Set Components

The following table provides a list of patch set components. Note that the components updated by 10g Release 3 Patch Set 1 (10.1.3.1.0) are also included here because this is a cumulative patch set.

Table 4 Oracle Application Server 10g Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) Components

Component Name	Release
Apache Module for Oracle Distributed Authoring and Versioning	10.1.3.1
HTTP Server Files for 2.0	2.2.0.0.0
Java Runtime Environment	1.4.2.0.4
LDAP Required Support Files	10.1.4.0.1
Oracle Apache Modules	10.1.3.3
Oracle Application Development Framework	10.1.3.3
Oracle Application Development Framework Library	10.1.3.3
Oracle Application Server	10.1.3.3
Oracle Application Server Guard	10.1.3.1
Oracle Application Server High Availability Components	10.1.3.3
Oracle Application Server Middle Tier	10.1.3.3
Oracle Application Server Port Tunnel	10.1.3.3
Oracle Application Server Welcome Pages	10.1.3.3
Oracle BPEL Process Manager and Enterprise Service Bus	10.1.3.3
Oracle Business Rules	10.1.3.3
Oracle Containers for J2EE (OC4J)	10.1.3.3
Oracle Distributed Software Assistant Client Patch	10.1.3.3
Oracle Distributed Software Assistant Common Patch	10.1.3.3
Oracle Distributed Software Assistant Patch	10.1.3.3
Oracle Distributed Software Assistant Server Patch	10.1.3.3
Oracle Dynamic Monitoring Service	10.1.3.3
Oracle Enterprise Manager 10*g* Application Server Control	10.1.3.1
Oracle Enterprise Manager 10*g* Change IP	10.1.3.3
Oracle Enterprise Manager Application Server Control	10.1.3.3
Oracle Enterprise Service Bus Process Manager	10.1.3.3
Oracle Extended Windowing Toolkit	3.4.43.0.0
Oracle HTTP Server	10.1.3.3
Oracle HTTP Server Files	10.1.3.3
Oracle iappcore	10.1.3.3
Oracle Identity Management Support Files	10.1.3.3
Oracle Java Object Cache	10.1.3.1
Oracle LogLoader	10.1.3.1
Oracle mod_plsql Gateway	10.1.3.3
Oracle Notification Service	10.1.3.3
Oracle One-off Patch Installer	10.1.0.6.0

Table 4 (Cont.) Oracle Application Server 10g Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) Components

Component Name	Release
Oracle Process Management and Notification Server (OPMN)	10.1.3.3
Oracle Real Application Clusters High Availability Support Files (Microsoft Windows only)	10.1.0.5.0
Oracle Real Application Clusters Support Files (Microsoft Windows only)	10.1.0.5.0
Oracle Security Developer Tools	10.1.4.0.1
Oracle TopLink	10.1.3.3
Oracle TopLink Developer	10.1.3.3
Oracle TopLink Runtime	10.1.3.3
Oracle Universal Installer	10.1.0.6.0
Oracle Web Services Manager	10.1.3.3
Oracle XML Developer's Kit	10.1.3.1
Oracle XML Query Service	10.1.3.3
Oracle XML SQL Utility	10.1.3.1
OracleAS Guard Client	10.1.3.1
OracleAS Guard Common	10.1.3.1
OracleAS Guard Server	10.1.3.1
OracleAS J2EE	10.1.3.3
OracleAS Kernel Common	10.1.3.3
Sun JDK	1.5.0.0.6
XML Parser for Java	10.1.3.1

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Oracle Application Server Patch Set Notes, 10*g* Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0) for Linux and Microsoft Windows