

# Oracle9i Application Server

## Migration Guide

Release 1 (v1.0.2.2) for Sun SPARC Solaris

May 2001

**Part No. A90221-01**

This guide describes the process of migrating from earlier releases of Oracle9i Application Server to the current version. The document has the following sections:

- [Section 1.0, "Migration Paths"](#)
- [Section 2.0, "Migration Terminology"](#)
- [Section 3.0, "Preinstallation Tasks"](#)
- [Section 4.0, "Installing Oracle9i Application Server 1.0.2.2"](#)
- [Section 5.0, "Manually Migrating Components"](#)
- [Section 6.0, "Migrating Supplemental Components"](#)

## 1.0 Migration Paths

If you are migrating from a previous version of Oracle9i Application Server, note that Oracle only supports the following options:

- If you are migrating from an earlier release, you must first migrate to Oracle9i Application Server, Release 1.0.2.1 using the instructions for that release. Then migrate from Release 1.0.2.1 to 1.0.2.2 using this document. For example, if you are using Release 1.0.2.0, you must migrate to Release 1.0.2.1 and then to Release 1.0.2.2.
- If you are migrating from Oracle9i Application Server, Release 1.0.2.1, then you must perform the tasks described in this document.
- Migration must be between the same installation type. For example, Oracle supports migration from Release 1.0.2.1 Enterprise Edition to Release 1.0.2.2 Enterprise Edition only.

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## 2.0 Migration Terminology

This document uses the following terms:

Terms	Definition
Oracle home <i>ORACLE_HOME</i>	The directory you are installing Oracle9i Application Server 1.0.2.2 into. This is also the directory where Oracle9i Application Server 1.0.2.1 was installed.
old 806 home <i>OLD_806HOME</i>	The directory where components using Oracle 8.0.6 libraries were installed for Oracle9i Application Server 1.0.2.1. The default value for this directory was <i>ORACLE_HOME/6iserver</i> .
new 806 home <i>NEW_806HOME</i>	The directory where components using Oracle 8.0.6 libraries are installed for Oracle9i Application Server 1.0.2.2. You can choose a value for this Oracle home during the 1.0.2.2 installation process.

## 3.0 Preinstallation Tasks

You must perform the following tasks before installing Oracle9i Application Server Release 1 (v1.0.2.2).

### 3.1 Reviewing the Latest Product Information

Before installing Oracle9i Application Server Release 1 (v1.0.2.2), review the Release Notes and latest Release Notes Addendum. You can find the latest Release Notes Addendum on the Oracle Technology Network (OTN) at

<http://otn.oracle.com/docs/products/ias/content.html>

### 3.2 Backing up Configuration and Data Files

Make backup copies of the following files and directories before installing Oracle9i Application Server.

- The *ORACLE\_HOME/panama/server* directory.
- Backup the Oracle9iAS Wireless repository using an Oracle backup tool.
- (Standard and Enterprise Editions only) Changed files in the *ORACLE\_HOME/ifs1.1/settings* directory and changed Oracle Internet File System configuration files stored in other directories.
- (Enterprise Edition only)  
*OLD\_806HOME/network/admin/tnsnames.ora*

- (Enterprise Edition only) The `ORACLE_HOME/Apache/Apache/htdocs/disco4iv/html` directory.
- (Enterprise Edition only) `OLD_806HOME/discwb4/util/pref.txt`

[Section 5.0, "Manually Migrating Components"](#) explains the tasks you must perform using these files after installing Oracle9i Application Server.

## 4.0 Installing Oracle9i Application Server 1.0.2.2

Install Oracle9i Application Server 1.0.2.2 into the same Oracle home as the 1.0.2.1 installation. You must follow all of the preinstallation and postinstallation tasks from the *Oracle9i Application Server Installation Guide* before completing the migration tasks in [Section 5.0, "Manually Migrating Components"](#) of this guide.

At the File Locations screen in the installer, you must enter the same value that was used in your Oracle9i Application Server 1.0.2.1 installation. The easiest way to find this value is to select it from the drop-down list.

**See Also:** *Oracle9i Application Server Installation Guide*

## 5.0 Manually Migrating Components

Some components require additional postinstallation tasks you must perform to successfully complete the migration from Oracle9i Application Server, Release 1.0.2.1. This section describes the postinstallation tasks for the following components:

- [Section 5.1, "Components Migrated During Installation"](#)
- [Section 5.2, "Common Configuration Files"](#)
- [Section 5.3, "Oracle9iAS Database Cache"](#)
- [Section 5.4, "Oracle9iAS Discoverer"](#)
- [Section 5.5, "Oracle9iAS Forms Services"](#)
- [Section 5.6, "Oracle9iAS Portal"](#)
- [Section 5.7, "Oracle9iAS Reports Services"](#)
- [Section 5.8, "Oracle9iAS Wireless"](#)
- [Section 5.9, "Oracle Business Components for Java"](#)
- [Section 5.10, "Oracle HTTP Server powered by Apache"](#)
- [Section 5.11, "Oracle Internet File System"](#)

## 5.1 Components Migrated During Installation

Installing Oracle9i Application Server 1.0.2.2 automatically migrates some components. There are no additional migration steps for the following components:

- Oracle9iAS Developer Kits
- Oracle9iAS Web Cache
- Oracle Enterprise Java Engine
- Oracle Enterprise Manager

## 5.2 Common Configuration Files

Some Oracle9i Application Server files contain configuration data for more than one component. To simplify migration, this section describes the migration tasks for each of these configuration files.

**jserv.properties** After installing Oracle9i Application Server 1.0.2.2, you must remove duplicate lines from `jserv.properties`. The path to this file is `ORACLE_HOME/Apache/Jserv/etc/jserv.properties`.

Edit `jserv.properties` so that it contains **only one** occurrence of the following lines:

```
wrapper.classpath=ORACLE_HOME/portal30/bibeans/jewt-opt-4_1_2.zip
wrapper.classpath=ORACLE_HOME/portal30/bibeans/share-opt-1_1_7.zip
wrapper.classpath=ORACLE_HOME/portal30/bibeans/utility.jar
wrapper.classpath=ORACLE_HOME/portal30/bibeans/utilitygui.jar
wrapper.classpath=ORACLE_HOME/portal30/bibeans/utilitypersist.jar
wrapper.classpath=ORACLE_HOME/portal30/bibeans/utilityxml.jar
wrapper.classpath=ORACLE_HOME/portal30/bibeans/swingall.jar
wrapper.classpath=ORACLE_HOME/portal30/bibeans/graph.jar
wrapper.classpath=ORACLE_HOME/portal30/bibeans/graphgui.jar
wrapper.classpath=ORACLE_HOME/portal30/bibeans/LW_PfjBean.jar
wrapper.classpath=ORACLE_HOME/portal30/bibeans/bivisbeans.jar
wrapper.classpath=ORACLE_HOME/lib/http_client.jar
wrapper.classpath=ORACLE_HOME/jlib/javax-ssl-1_2.jar
wrapper.classpath=ORACLE_HOME/jlib/jssl-1_2.jar
wrapper.env=DISPLAY=host:0.0
wrapper.env=WV_GATEWAY_CFG=ORACLE_HOME/Apache/modplsql/cfg/wdbsvr.app
```

```
wrapper.classpath=ORACLE_HOME/Apache/BC4J/lib/ordim817.zip
wrapper.classpath=ORACLE_HOME/Apache/BC4J/lib/ordvir817.zip
wrapper.classpath=ORACLE_HOME/Apache/BC4J/lib/ordhttp.zip
wrapper.classpath=ORACLE_HOME/Apache/BC4J/lib/jndi.jar
wrapper.classpath=ORACLE_HOME/Apache/BC4J/lib/jbomt.zip
wrapper.classpath=ORACLE_HOME/Apache/BC4J/lib/javax_ejb.zip
wrapper.classpath=ORACLE_HOME/Apache/BC4J/lib/jdev-rt.zip
wrapper.classpath=ORACLE_HOME/Apache/BC4J/lib/jbohtml.zip
```

```
wrapper.classpath=ORACLE_HOME/Apache/BC4J/lib/jboremove.zip
wrapper.classpath=ORACLE_HOME/Apache/BC4J/lib/connectionmanager.zip
wrapper.classpath=ORACLE_HOME/Apache/BC4J/lib/jbodomorcl.zip
wrapper.classpath=ORACLE_HOME/Apache/BC4J/lib/jboindomains.zip
wrapper.classpath=ORACLE_HOME/Apache/BC4J/lib/jboorasql.zip
wrapper.classpath=ORACLE_HOME/Apache/Apache/htdocs/onlineorders_html
```

**zone.properties** After installing Oracle9i Application Server 1.0.2.2, you must remove obsolete and duplicate lines from `zone.properties`. The path to this file is

`ORACLE_HOME/Apache/Jserv/etc/zone.properties`.

Remove the following line from `zone.properties`:

```
repositories=ORACLE_HOME/Apache/Jserv/servlets/Parallel.jar
```

Edit `zone.properties` so that it contains **only one** occurrence of the following line:

```
servlet.page.code=oracle.webdb.page.ParallelServlet
```

**(Enterprise Edition only) Old 806 home tnsnames.ora** [Section 3.2, "Backing up Configuration and Data Files"](#) instructed you to create a backup copy of the following file:

- `OLD_806HOME/network/admin/tnsnames.ora`

You must restore the backup copy of this file to its original location, overwriting the file that is currently there.

### 5.3 Oracle9iAS Database Cache

To enable Oracle9iAS Database Cache to work with the Oracle Intelligent Agent, the following line must exist in

`ORACLE_HOME/odg/svppcart.dat`:

```
WTPC ALL vpxwtpc vpxwtpc
```

If this line does not exist in `svppcart.dat`, then you must add it.

## 5.4 Oracle9iAS Discoverer

The following sections describe tasks you must perform to successfully migrate Oracle9iAS Discoverer.

**Migrating Configuration Information** Many configuration files control the appearance and behavior of Oracle9iAS Discoverer. You might have modified these files to customize Discoverer to meet your own requirements. Installing Oracle9i Application Server 1.0.2.2 replaces existing versions of these configuration files with new versions of the same files. If you have modified the configuration files, then you must edit the new files and reapply your changes using the backup files from [Section 3.2, "Backing up Configuration and Data Files"](#).

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**Note:** Do not replace the new files with the backed up files. Follow the steps below to migrate customizations from the backed up files to the new files. Only migrate your customizations and not all differences between the files.

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1. For each backed up file from the  
*ORACLE\_HOME*/Apache/Apache/htdocs/disco4iv/html  
directory, perform the following tasks:
  - a. Compare the backed up file with the equivalent file in the Oracle home directory.
  - b. Edit the equivalent file in the Oracle home directory so that it contains the same customizations as the backed up file.
2. For the backed up copy of  
*OLD\_806HOME*/discwb4/util/pref.txt, perform the following tasks:
  - a. Compare the backed up file with  
*NEW\_806HOME*/discwb4/util/pref.txt.
  - b. Edit *NEW\_806HOME*/discwb4/util/pref.txt so that it contains the same customizations as the backed up file.

**Configuring the Listener** After installing Oracle9i Application Server 1.0.2.2 you must confirm that Oracle9iAS Discoverer Viewer uses the correct listener configuration.

1. View the `ORACLE_HOME/Apache/Apache/setupinfo.txt` to determine the Non SSL Mode port number.

This number will be the value following `hostname`. For example, the following information indicates that the port number is 7778:

```
Non SSL Mode (executed at install time):  
http://hostname:7778
```

2. Edit

`ORACLE_HOME/Apache/Jserv/etc/disco4iviewer.properties`  
and make the following changes:

- a. Find the `servlets.startup` directive that launches the viewer servlet. Confirm that the servlet name is `viewer` with a lowercase "v". If the directive starts the `Viewer` servlet, then change the directive so that `viewer` starts with a lowercase "v". The correct directive is:

```
servlets.startup=viewer
```

- b. Remove the following lines that refer to the `Viewer` servlet:

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**Note:** In the lines you must delete, there is a capital "V" in "`servlet.Viewer`". Do not delete the lines where `viewer` begins with a lowercase "v".

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```
servlet.Viewer.code=oracle.discoiv.Disco4iv  
servlet.Viewer.initArgs=config=http://hostname:port/disco4iv/html/disco4iv.xml
```

- c. Ensure that the port number in the remaining instance of the following line matches the port number from `setupinfo.txt`.

```
servlet.viewer.initArgs=config=http://hostname:port/disco4iv/html/disco4iv.xml
```

If the port values do not match, then change the port value in this file to the value from `setupinfo.txt`.

**Updating URL References** All URL references to `Discoverer4i/Viewer` are now invalid. You must manually change all references to `discoverer4i/viewer`. This includes, but is not limited to, links within the Web site and client bookmarks.

**Upgrading the End User Layer** The version of Oracle9iAS Discoverer that ships with Oracle9i Application Server 1.0.2.2 requires an End User Layer from Oracle Discoverer Administration Edition 4.1.36 or later. You must upgrade your End User Layer if either:

- you have not installed Oracle Discoverer Administration Edition 4.1.36 or later
- you have installed Oracle Discoverer Administration Edition 4.1.36 or later but did not upgrade your End User Layer

Oracle Discoverer Administration Edition is shipped as part of Oracle9i Developer Suite. Oracle9i Developer Suite 1.0.2.4 includes Oracle Discoverer Administration Edition 4.1.37.

**See Also:**

- <http://otn.oracle.com/products/ids> for more information on Oracle9i Developer Suite.
- *Oracle Discoverer Installation and Upgrade Guide* which is packaged with Oracle Discoverer Administration Edition.

## 5.5 Oracle9iAS Forms Services

The following sections describe tasks you must perform to successfully migrate Oracle9iAS Forms Services.

**Migrating Configuration Files** [Section 5.2, "Common Configuration Files"](#) includes tasks for migrating configuration files for this component.

**Other Migration Tasks** Review the latest Oracle9i Application Server Release Notes Addendum for additional migration tasks. You can find the latest Release Notes Addendum on OTN at

<http://otn.oracle.com/docs/products/ias/content.html>



## 5.6 Oracle9iAS Portal

The following sections describe tasks you must perform to successfully migrate Oracle9iAS Portal.

**Migrating Configuration Files** [Section 5.2, "Common Configuration Files"](#) includes tasks for migrating configuration files for this component.

**Upgrading the Oracle9iAS Portal Repository** Oracle9iAS Portal uses an upgrade script for migration. The script and further migration instructions are available at

<http://otn.oracle.com/products/iportal>

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**Note:** Oracle9i Application Server Release 1 (v1.0.2.2) ships with Oracle9iAS Portal Release 3.0.9.

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## 5.7 Oracle9iAS Reports Services

The following sections describe tasks you must perform to successfully migrate Oracle9iAS Reports Services.

**Migrating Configuration Files** [Section 5.2, "Common Configuration Files"](#) includes tasks for migrating configuration files for this component.

**Other Migration Tasks** Review the latest Oracle9i Application Server Release Notes Addendum for additional migration tasks. You can find the latest Release Notes Addendum on OTN at

<http://otn.oracle.com/docs/products/ias/content.html>

## 5.8 Oracle9iAS Wireless

See Section 1.2 in the *Oracle9iAS Wireless Configuration Guide* in the Oracle9i Application Server Documentation Library for manual configuration steps you must perform to successfully migrate this component.

## 5.9 Oracle Business Components for Java

[Section 5.2, "Common Configuration Files"](#) includes tasks for migrating configuration files for this component.

## 5.10 Oracle HTTP Server *powered by Apache*

This release of Oracle HTTP Server offers a new infrastructure which provides better process management and high availability features for Oracle9i Application Server.

**See Also:** *Using mod\_oprocmgr with mod\_jserv* in the Oracle9i Application Server Documentation Library

To use the new high available functionality, you must set the following directive in `ORACLE_HOME/Apache/Jserv/etc/jserv.conf`:

```
ApJServManual auto
```

If this directive was set to `on` before installing Oracle9i Application Server 1.0.2.2, then the new installation will continue to work as the old one did. For instructions on configuring Oracle HTTP Server to take advantage of the new infrastructure, see *Using mod\_oprocmgr with mod\_jserv* in the Oracle9i Application Server Documentation Library.

If this directive was set to `off` before installing Oracle9i Application Server 1.0.2.2, then the installer sets the directive to `auto` and adds the following lines to `jserv.conf`:

```
ApJServGroup group1 1 1 ORACLE_HOME/Apache/Jserv/etc/jserv.properties
ApJServGroup group2 1 1 ORACLE_HOME/Apache/Jserv/etc/jservSoap.properties
ApJServGroupMount /servlets balance://group1/root
ApJServGroupMount /servlet balance://group1/root
ApJServGroupMount /dms balance://group1/root
ApJServGroupMount /soap/servlet balance://group2/soap
ApJServGroupSecretKey DISABLED
```

These additions may not reflect your original configuration settings. They are a template to help configure your settings to the new infrastructure. The updated `jserv.conf` file may require adding or changing some directives. You may also need to make changes to `jserv.properties` which is in the same directory as `jserv.conf`.

The following examples guide you through this process.

### Example 1:

This example shows the migration of a basic configuration.

Before installing Oracle9i Application Server 1.0.2.2, the configuration files for this example contain the following directives:

`jserv.conf`

```
ApJServManual off
ApJServMount /servlets /root
ApJServMount /dev ajpv12://localhost:8008/developers
```

```
ApJServMount /prod  ajpv12://localhost:8009/production
ApJServSecretKey DISABLED
```

jserv.properties

```
port=8007
```

After installing Oracle9i Application Server 1.0.2.2 and editing the configuration files, the final files should contain the following directives:

jserv.conf

```
ApJServManual auto
ApJServGroupMount /servlets balance://group1/root
ApJServGroupMount /dev    balance://group2/developers
ApJServGroupMount /prod   balance://group3/production
ApJServGroupSecretKey DISABLED
ApJServGroup group1 1 1 ORACLE_HOME/Apache/Jserv/etc/jserv.properties
ApJServGroup group2 1 1 ORACLE_HOME/Apache/Jserv/etc/jserv1.properties
ApJServGroup group3 1 1 ORACLE_HOME/Apache/Jserv/etc/jserv2.properties
```

jserv\*.properties

```
jserv.properties: port=8007
jserv1.properties: port=8008
jserv2.properties: port=8009
```

For this example, jserv1.properties and jserv2.properties can be equivalent to the file that starts JServ processes manually.

### Example 2:

This example shows the migration of a configuration with load balancing directives.

Before installing Oracle9i Application Server 1.0.2.2, the configuration files for this example contain the following directives:

jserv.conf

```
ApJServManual off
ApJServMount /dev    balance://set1/dev
ApJServMount /servlets balance://set1/root
ApJServBalance set1 JServ1
ApJServBalance set1 JServ2
ApJServHost JServ1 ajpv12://localhost:8008
ApJServHost JServ2 ajpv12://localhost:8009
ApJServRoute JS1 JServ1
ApJServRoute JS2 JServ2
ApJServSecretKey DISABLED
ApJServShmFile logs/jserv_shm
```

jserv.properties

```
port=8007
```

After installing Oracle9i Application Server 1.0.2.2 and editing the configuration files, the final files should contain the following directives:

`jserv.conf`

```
ApJServManual auto
ApJServGroupMount /servlets balance://set1/root
ApJServGroupMount /dev balance://set1/developers
ApJServGroupSecretKey DISABLED
ApJServGroup set1 2 1 $ORACLE_HOME/Apache/Jserv/etc/jserv1.properties
```

`jserv1.properties`

```
port=8008,8009
```

## 5.11 Oracle Internet File System

The following steps describe tasks you must perform to successfully migrate Oracle Internet File System.

1. Stop Oracle Internet File System with the `$ORACLE_HOME/ifs1.1/bin/ifsstop` command.
2. Restore the Oracle Internet File System configuration files backed up in [Section 3.2, "Backing up Configuration and Data Files"](#) to their original locations.
3. Start Oracle Internet File System with the `$ORACLE_HOME/ifs1.1/bin/ifsstart` command.

## 6.0 Migrating Supplemental Components

Oracle9i Application Server 1.0.2.1 introduced many new supplemental components. Since these components were manually installed after installing Oracle9i Application Server 1.0.2.1 and some supplemental components have not changed since the last release, no migration tasks are required.

The following table describes the migration tasks required for each supplemental component:

Supplemental Component	Status	Migration Tasks
Oracle9iAS Email	Unchanged	None
Oracle9iAS InterConnect (formerly Oracle Applications Interconnect)	Updated for 1.0.2.2	<p>Install using instructions in:</p> <ul style="list-style-type: none"><li>■ Oracle9i Application Server Installation Guide</li><li>■ Oracle9iAS InterConnect Installation Guide</li></ul> <p><b>Note:</b> You must install Oracle9iAS InterConnect into the same Oracle home you installed Oracle Applications Interconnect in to ensure a successful migration.</p>
Oracle9iAS Unified Messaging	Unchanged	None
Oracle Gateways	Unchanged	None
Oracle Internet Directory	Unchanged	None
Oracle Workflow	Unchanged	None

