Oracle® Application Server

Quick Installation Guide

10*g* Release 2 (10.1.2) for Microsoft Windows (64-bit) on Intel Itanium

B25332-01

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ORACLE®

Oracle Application Server Quick Installation Guide 10*g* Release 2 (10.1.2) for Microsoft Windows (64-bit) on Intel Itanium
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Introduction

This guide describes how to install the following Oracle Application Server installation types:

- J2EE and Web Cache middle tier

- Portal and Wireless middle tier

- Business Intelligence and Forms middle tier

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Installation Types Covered in this Guide

This guide is intended for users who want to install Oracle Application Server in the following configurations:

- Java Developer topology: Intended for Java developers. This topology installs a **J2EE and Web Cache** middle tier, on which you can deploy your applications.

- Portal and Wireless Developer topology: Intended for Java developers who want to use OracleAS Portal, Oracle Application Server Wireless, Oracle Internet Directory, or Oracle Application Server Single Sign-On features, in addition to J2EE and Web Cache features. This topology requires a **Portal and Wireless** middle tier and the **OracleAS Infrastructure**.

- Business Intelligence and Forms Developer topology: Intended for developers who want to use OracleAS Personalization, OracleBI Discoverer, OracleAS Reports Services, or OracleAS Forms Services features, in addition to J2EE and Web Cache and Portal and Wireless features. This topology requires a **Business Intelligence and Forms** middle tier and the **OracleAS Infrastructure**.

If you want more complex topologies, read the *Oracle Application Server Installation Guide* for complete installation instructions.

Before installing Oracle Application Server, you should read the *Oracle Application Server Release Notes* for the latest information.

Requirements

Check that your computer meets the minimum requirements:

- Check System Requirements

- Set the User to Belong to the Administrators Group

- Check Environment Variables

- Check and Update Windows System Files (wsf)

- Check If Port 1521 Is in Use

Check System Requirements

Your computer must meet the following requirements.

Operating Systems Supported

- Windows Server 2003 (64-bit)

- Windows Server 2003 x64 Edition - all editions

Note that Oracle Application Server is not supported on Windows operating systems that include Terminal Services.

Oracle provides 32-bit and 64-bit versions of Oracle Application Server for Windows. The 32-bit version runs on Intel x86, AMD64, and Intel EM64T processors. For additional information, visit Oracle*MetaLink* at http://metalink.oracle.com.

Other System Requirements

The following table shows other system requirements.

Table 1   Minimum System Requirements

	J2EE and Web Cache	**Portal and Wireless**	**Business Intelligence and Forms**	**OracleAS Infrastructure**
Memory (see Note 1 after this table)	512 MB	1 GB	1 GB	1 GB
Disk space	846 MB	1.2 GB	1.7 GB	3.7 GB (See Note below this label)
Space in TEMP directory	256 MB	256 MB	256 MB	256 MB
Total pagefile size (virtual memory)	512 MB	512 MB	1 GB	1 GB

Note:

(1) If you plan to install OracleAS Infrastructure plus either Business Intelligence and Forms or Portal and Wireless on the same computer, then you need to have at least 1.5 GB of memory and 2.0 GB total pagefile size.

(2) You can install the data files for the OracleAS Metadata Repository database on a disk that is different from the disk where you are installing OracleAS Infrastructure. If you do this, make sure the disk for the data files has at least 1.3 GB of free space.

Set the User to Belong to the Administrators Group

The operating system user performing the installation must belong to the Administrators group.

> **Note:** The user must be listed **directly** in the Administrators group. The user cannot belong to the group indirectly (for example, by being a member of a group that is part of the Administrators group).

To check if you belong to the Administrators group:

1. Display the Computer Management dialog:

    - Windows 2003: Right-click the local computer icon on the desktop and select **Manage**.

2. On the left side, expand **Local Users and Groups**, and click **Users**.

3. On the right side, right click the user and select **Properties**. This displays the Properties dialog.

4. In the Properties dialog, select the **Member Of** tab.

If you are not a member of the Administrators group, get an administrator to add you to the group or log in as a user who is a member of the Administrators group.

Check Environment Variables

The operating system user who will be installing Oracle Application Server needs to set (or unset) the following environment variables.

Table 2   Environment Variables

Environment Variable	Set or Unset
ORACLE_HOME and ORACLE_SID	Must not be set.
TNS_ADMIN	Must not be set.
PATH	Must not be longer than 1023 characters.
TEMP	Optional. If unset, defaults to `C:\temp`.

How to Set Environment Variables This section describes how to set environment variables in Windows:

1. Display the System Control Panel.

   Windows 2003: Select **Start > Control Panel > System**.

2. Select the **Advanced** tab.

3. Click **Environment Variables**.

4. To change the value of a variable, select the variable and click **Edit**.

Check and Update Windows System Files (wsf)

Note: Perform this step only if prompted by the installer.

Oracle Application Server requires minimum versions of some system files in the Windows system directory (typically `C:\Windows\system32` or `C:\Winnt\system32`). When you run the installer for Oracle Application Server, the installer checks the Windows system files on your computer. If it finds old versions of these files, and the files are in use by other processes, then it prompts you to exit the installer and run `wsf.exe` to

install the latest Windows system files. (If it finds old versions of the files, but the files are not in use by other processes, then it just replaces the files and you do not have to run wsf.exe.)

You can find wsf.exe in the same directory as the installer.

To run wsf.exe, which you need to do only if prompted by the installer, perform these steps:

1. Start wsf.exe, which starts up Oracle Universal Installer to install the Windows system files.

    CD-ROM (assumes E: is the CD-ROM drive):

    ```
    E:\> wsf.exe
    ```

    DVD (assumes E: is the DVD drive):

    ```
    E:\> cd application_server
    E:\application_server> wsf.exe
    ```

2. <u>Welcome screen</u>

    Click **Next**.

3. <u>Specify File Locations screen</u>

    Destination Name: Enter a name for the Oracle home for wsf.

Destination Path: Enter any full path. The installer installs the files in the proper system directories, regardless of the value you enter in this field.

Click **Next**.

4. Warning: System Reboot Required screen

   If you see this screen, the installer will restarts your computer automatically at the end of this installation to complete the Windows system files installation. Save and close applications (other than this installer) that you have running on your computer.

   Click **Next**.

5. Summary screen

   Click **Next** to start installing the Windows system files.

6. End of Installation screen

   Click **Exit** to exit the installer.

7. If the installer displayed the "Warning: System Reboot Required" screen during installation, the installer now restarts your computer. If not, please restart your computer before continuing.

Check If Port 1521 Is in Use

This section is applicable only if you are installing the OracleAS Infrastructure.

The OracleAS Infrastructure installs an Oracle database, which uses port 1521 by default. To check if port 1521 is in use:

```
C:\> netstat -an | find "1521"
```

If port 1521 is in use by a third-party application, you need to configure the application to use a different port.

If port 1521 is in use by an existing Oracle database listener, you need to stop the listener before installing the OracleAS Infrastructure.

See *Oracle Application Server Installation Guide* for details.

Starting Up the Installer

To start the installer:

1. Log in to the computer as a user who is a member of the Administrators group.

2. Insert the disc:

CD-ROM: Insert Oracle Application Server Disc 1.

DVD: Insert the Oracle Application Server DVD.

3. If your computer supports the auto run feature, the installer launches automatically.

If your computer does not support the auto run feature, you have to start up the installer manually:

CD-ROM: Double-click the setup.exe file.

DVD: Double-click the setup.exe file located in the application_server directory.

This launches Oracle Universal Installer, through which you can install Oracle Application Server.

Installing J2EE and Web Cache (Java Developer Topology)

This topology installs the J2EE and Web Cache middle tier, which provides the following components:

- Oracle HTTP Server: This is the Web server.

- Oracle Application Server Containers for J2EE (OC4J): This is a J2EE container that you can use for deploying and testing your J2EE applications.

- OracleAS Web Cache - this component caches objects to reduce the load on Oracle HTTP Server and improve performance.

To install a J2EE and Web Cache middle tier:

1. Start up the installer. See "Starting Up the Installer" for details.

2. Welcome screen

   Click **Next**.

3. Specify File Locations screen

   Name: Enter a name to identify this Oracle home.

   Example: OH_J2EE

   Destination Path: Enter the full path to the destination directory. This is the Oracle home. If the destination directory does not exist, the installer creates it.

   Example: C:\oracle\OraJ2EE

   Click **Next**.

4. Select a Product to Install screen

   Select **Oracle Application Server** and click **Next**.

5. Select Installation Type screen

Select **J2EE and Web Cache** and click **Next**.

6. Confirm Pre-Installation Requirements screen

   Check that you meet the requirements listed on this screen, select all the checkboxes, and click **Next**.

7. Select Configuration Options screen

   Select **OracleAS Web Cache** if you want to use caching capabilities with this Oracle Application Server instance.

   Do not select **Identity Management Access**.

   Do not select **OracleAS Farm Repository**.

   Click **Next**.

8. Specify Port Configuration Options screen

   Select **Automatic** and click **Next**.

9. Specify Instance Name and ias_admin Password screen

   Instance Name: Enter a name for this instance. Instance names can contain alphanumeric and _ (underscore) characters. If you have more than one Oracle Application Server instance on a computer, the instance names must be unique.

Example: J2EE

ias_admin Password and Confirm Password: Enter and confirm the password for the ias_admin user. This is the administrative user for this instance.

Passwords must consist of at least five characters, and one of the characters must be a number.

Click **Next**.

10. Summary screen

Verify your selections and click **Install**. The installer now installs the files.

11. Configuration Assistants screen

This screen displays the progress of configuration assistants, which configure Oracle Application Server components.

12. End of Installation screen

Click **Exit** to quit the installer.

Installing Portal and Wireless or Business Intelligence and Forms Developer Topology (requires OracleAS Infrastructure)

These topologies enable you to deploy applications that use components such as OracleAS Portal, Oracle Application Server Wireless, and OracleBI Discoverer.

To set up the Portal and Wireless Developer Topology, you need to install:

1. OracleAS Infrastructure
2. Portal and Wireless middle tier

To set up the Business Intelligence and Forms Developer Topology, you need to install:

1. OracleAS Infrastructure
2. Business Intelligence and Forms middle tier

The Portal and Wireless and Business Intelligence and Forms middle tiers use services from the OracleAS Infrastructure, so you have to install the OracleAS Infrastructure first.

> **Note:** You can install the OracleAS Infrastructure and the Portal and Wireless or Business Intelligence and Forms middle tier on different computers.

Install OracleAS Infrastructure

To install OracleAS Infrastructure with a new database and a new Oracle Internet Directory:

1. Start up the installer. See "Starting Up the Installer" for details.

2. Welcome screen

   Click **Next**.

3. Specify File Locations screen

   Name: Enter a name to identify this Oracle home.

   Example: OH_INFRA

   Destination Path: Enter the full path to the destination directory. This is the Oracle home. If the destination directory does not exist, Oracle Universal Installer creates it.

   Example: C:\oracle\appserver\OraInfra

Click **Next**.

4. Select a Product to Install screen

   Select **OracleAS Infrastructure** and click **Next**.

5. Select Installation Type screen

   Select **Identity Management and OracleAS Metadata Repository** and click **Next**.

6. Confirm Pre-Installation Requirements screen

   Check that you meet the requirements listed on this screen, select all the checkboxes, and click **Next**.

7. Select Configuration Options screen

   Select **Oracle Internet Directory**.

   Select **OracleAS Single Sign-On**.

   Select **Delegated Administration Service**.

   Select **Oracle Directory Integration and Provisioning**.

   Do not select **OracleAS Certificate Authority**.

   Do not select **High Availability and Replication**.

   Click **Next**.

8. Specify Port Configuration Options screen

Select **Automatic** and click **Next**.

9. Specify Namespace in Internet Directory screen

Select **Suggested Namespace** and click **Next**.

10. Specify Database Configuration Options screen

Global Database Name: Enter a name for the OracleAS Metadata Repository database, and append your domain name to the database name.

The database name portion of the global database name:

- can contain only alphanumeric characters
- must not be longer than eight characters
- must not contain the word "PORT" or "HOST" in uppercase characters. If you need to use these words, use lowercase characters.

The domain name portion of the global database name:

- can contain alphanumeric, underscore (_), minus (-), and pound (#) characters
- must not be longer than 128 characters

Example: `orcl.yourcompany.com`

SID: Enter the system identifier for the OracleAS Metadata Repository database. Typically this is the global database name, but without the domain name. The SID must be unique across all databases.

The SID name has the same naming restrictions as the database name portion of the global database name (listed above).

Example: `orcl`

Select Database Character Set: Select the character set that you want to use for the database.

Database File Location: Specify the full path to the parent directory for the data files directory. The directory you specify must exist, and you must have write permissions in it.

The installer installs the data files in a subdirectory of the path you specify. The installer uses the database name for the name of the subdirectory. For example, if you specify `orcl.yourcompany.com` for the global database name and `C:\oradata` for the database file location, the installer places database files in the following directory: `C:\oradata\orcl`.

The file system that contains the directory must have at least 1.3 GB of free disk space. Additional disk space is required for production databases, depending on the amount of data that you plan to store.

Click **Next**.

11. Specify Database Schema Passwords screen

Set the passwords for the administrative database users, which are privileged accounts used for database administration. You can use the same password for all users, or specify different passwords for each user.

Click **Next**.

12. Specify Instance Name and ias_admin Password screen

Instance Name: Enter a name for this instance. Instance names can contain alphanumeric and _ (underscore) characters. If you have more than one Oracle Application Server instance on a computer, the instance names must be unique.

Example: infra

ias_admin Password and Confirm Password: Enter and confirm the password for the ias_admin user. This is the administrative user for this instance.

Passwords must consist of at least five characters, and one of the characters must be a number.

Example: `welcome99`

Click **Next**.

13. <u>Summary screen</u>

Verify your selections and click **Install**. The installer now installs the files.

14. <u>Configuration Assistants screen</u>

This screen displays the progress of configuration assistants, which configure Oracle Application Server components.

15. <u>End of Installation screen</u>

Click **Exit** to quit the installer.

Install Portal and Wireless or Business Intelligence and Forms Middle tier

The following procedure installs a Portal and Wireless or Business Intelligence and Forms middle tier and configures it to use the OracleAS Infrastructure.

1. Start up the installer. Refer to for details.

2. Welcome screen

   Click **Next**.

3. Specify File Locations screen

   Name: Enter a name to identify this Oracle home.

   Example: OH_PORTAL

   Destination Path: Enter the full path to the destination directory. This is the Oracle home. If the destination directory does not exist, Oracle Universal Installer creates it.

   Example: C:\oracle\OraPortal

   Click **Next**.

4. Select a Product to Install screen

   Select **Oracle Application Server** and click **Next**.

5. Select Installation Type screen

Select **Portal and Wireless** or **Business Intelligence and Forms** and click **Next**.

6. Confirm Pre-Installation Requirements screen

Check that you meet the requirements listed on this screen, select all the checkboxes, and click **Next**.

7. Select Configuration Options screen

For Portal and Wireless, select:

- **OracleAS Portal**
- **OracleAS Wireless**

For Business Intelligence and Forms, select:

- **OracleAS Portal**
- **OracleAS Wireless**
- **OracleBI Discoverer**
- **OracleAS Personalization**
- **OracleAS Reports Services**
- **OracleAS Forms Services**

Click **Next**.

8. Specify Port Configuration Options screen

   Select **Automatic** and click **Next**.

9. Enter connect information for Oracle Internet Directory, which you installed when you installed the OracleAS Infrastructure:

   a. Register with Oracle Internet Directory screen

      Hostname: Enter the name of the computer where Oracle Internet Directory is running.

      Port: Enter the port number at which Oracle Internet Directory is listening. To determine Oracle Internet Directory's port number, look in the %ORACLE_HOME%\install\portlist.ini file, where ORACLE_HOME is where you installed the OracleAS Infrastructure.

      If you select **Use only SSL connections with this Oracle Internet Directory**, then you must obtain the port number from "Oracle Internet Directory (SSL)" parameter in the portlist.ini file.

      Click **Next**.

   b. Specify Login for Oracle Internet Directory screen

Username: Enter `orcladmin`. This is the name of the Oracle Internet Directory administrator.

Password: The password for the orcladmin user is the same as the password for the ias_admin user in the infrastructure. (Refer to step 12 for information about the password specifications)

10. Select Metadata Repository screen

    Repository: Select the OracleAS Metadata Repository that you want to use for this middle-tier instance and click **Next**.

11. Provide Outgoing Mail Server Information

    This screen appears only if you selected a Business Intelligence and Forms installation.

    Enter the name of the outgoing mail (SMTP) server for use by OracleAS Reports Services. You can leave it blank and configure it later. Click **Next**.

12. Specify Instance Name and ias_admin Password screen

    Instance Name: Enter a name for this instance. Instance names can contain alphanumeric and _ (underscore) characters. If you have more than one Oracle Application

Server instance on a computer, the instance names must be unique.

Example: PORTAL

ias_admin Password and Confirm Password: Enter and confirm the password for the ias_admin user. This is the administrative user for this instance.

Passwords must consist of at least five characters, and one of the characters must be a number.

Example: welcome99

Click **Next**.

13. Summary screen

Verify your selections and click **Install**. The installer now installs the files.

14. Configuration Assistants screen

This screen displays the progress of configuration assistants, which configure Oracle Application Server components.

15. End of Installation screen

Click **Exit** to quit the installer.

Accessing the Welcome Page

After installation, access the Oracle Application Server Welcome page to verify that the installation was successful. The URL for the Welcome page is:

```
http://hostname.domainname:http_port
```

Determine the *http_port* by looking in the %ORACLE_HOME%\install\portlist.ini file. The port is listed on the "Oracle HTTP Server listen port" line.

Note: If you have multiple instances of Oracle Application Server installed on a computer, each instance has its own set of port numbers. Check the portlist.ini file in the correct Oracle home directory to be sure you are using the correct port numbers.

The Welcome page provides links to these useful pages:

- New features in Oracle Application Server 10*g* Release 2 (10.1.2)

- Oracle Enterprise Manager Application Server Control ("Application Server Control"), which is a browser-based administrative tool

- Release Notes

- What's Next

- Demos

Installing OracleAS Metadata Repository in an Existing Oracle Database

If you want to install OracleAS Metadata Repository in an existing Oracle database, you run a tool called the Oracle Application Server Metadata Repository Creation Assistant.

You can find Oracle Application Server Metadata Repository Creation Assistant on the "OracleAS Metadata Repository Creation Assistant" CD-ROM.

See *Oracle Application Server Metadata Repository Creation Assistant User's Guide* for details on how to use this tool.

Additional Resources

For more information, see these Oracle resources:

- Oracle Application Server Documentation Library CD-ROM

- Oracle Application Server platform-specific documentation on Oracle Application Server Disc 1 CD-ROM

Printed documentation is available for sale in the Oracle Store at http://oraclestore.oracle.com.

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- contact information
- instructions on how to access electronic services
- helpful Web sites
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- patch downloads
- bug database query access

- product life-cycle information

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If you do have a currently supported license, you can place non-urgent requests for version update shipments through the iTAR feature on Oracle*MetaLink*. You will need to log the iTAR type as a U.S. Client Relations/Non-Technical Request.

You can also request Version Update shipments in the U.S.A. by calling Client Relations. When requesting a Version Update, provide the following information to the Client Relations Analyst:

- CSI number
- contact information
- platform

- product name
- shipping address
- version number of the product

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Quick Reference

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Resource	Contact Information or Web Site
Access technical resources for developers	`http://www.oracle.com/technology`
Access installation documentation	`http://www.oracle.com/technology/documentation`
Access information about technical support	`http://www.oracle.com/support`
Locate local Oracle Support Centers outside the U.S.A.	`http://www.oracle.com/support`
Locate local Oracle offices outside the U.S.A	`http://www.oracle.com/global`
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Speak with your sales representative in the U.S.A.	1-800-ORACLE-1
TTY Access to technical support in the U.S.A.	1-800-446-2398