

Oracle® Application Server Integration B2B

Installation Guide

10g Release 2 (10.1.2) for Solaris Operating System (SPARC),
Linux x86, hp HP-UX PA-RISC (64-bit), and Microsoft Windows

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Oracle Application Server Integration B2B Installation Guide, 10g Release 2 (10.1.2) for Solaris Operating System (SPARC), Linux x86, hp HP-UX PA-RISC (64-bit), and Microsoft Windows

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Part No. B13850-01

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Preface

This guide is the primary source of installation information for Oracle Application Server Integration B2B.

This preface contains these topics:

- [Intended Audience](#)
- [Documentation Accessibility](#)
- [Organization](#)
- [Related Documentation](#)
- [Conventions](#)

Intended Audience

Oracle Application Server Integration B2B Installation Guide is intended for customers who want to install OracleAS Integration B2B.

Documentation Accessibility

Our goal is to make Oracle products, services, and supporting documentation accessible, with good usability, to the disabled community. To that end, our documentation includes features that make information available to users of assistive technology. This documentation is available in HTML format, and contains markup to facilitate access by the disabled community. Standards will continue to evolve over time, and Oracle is actively engaged with other market-leading technology vendors to address technical obstacles so that our documentation can be accessible to all of our customers. For additional information, visit the Oracle Accessibility Program Web site at

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Organization

This document contains:

Chapter 1, "Oracle Application Server Integration B2B Installation Overview"

This chapter provides an overview of installation scenarios and tasks for OracleAS Integration B2B.

Chapter 2, "Oracle Application Server Integration B2B Installation Requirements"

This chapter describes requirements you must satisfy before installing OracleAS Integration B2B.

Chapter 3, "Oracle Application Server Integration B2B Installation Procedures"

This chapter describes how to install OracleAS Integration B2B.

Related Documentation

For more information, see these Oracle resources:

In North America, printed documentation is available for sale in the Oracle Store at

<http://oraclestore.oracle.com/>

To download free release notes, installation documentation, white papers, or other collateral, please visit the 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>

Conventions

This section describes the conventions used in the text and code examples of this documentation set. It describes:

- [Conventions in Text](#)
- [Conventions in Code Examples](#)
- [Conventions for Microsoft Windows Operating Systems](#)

Conventions in Text

We use various conventions in text to help you more quickly identify special terms. The following table describes those conventions and provides examples of their use.

Convention	Meaning	Example
Bold	Bold typeface indicates terms that are defined in the text or terms that appear in a glossary, or both.	When you specify this clause, you create an index-organized table .
<i>Italics</i>	Italic typeface indicates book titles or emphasis.	<i>Oracle Database Concepts</i> Ensure that the recovery catalog and target database do <i>not</i> reside on the same disk.
UPPERCASE monospace (fixed-width) font	Uppercase monospace typeface indicates elements supplied by the system. Such elements include parameters, privileges, datatypes, RMAN keywords, SQL keywords, SQL*Plus or utility commands, packages and methods, as well as system-supplied column names, database objects and structures, usernames, and roles.	You can specify this clause only for a NUMBER column. You can back up the database by using the BACKUP command. Query the TABLE_NAME column in the USER_TABLES data dictionary view. Use the DBMS_STATS.GENERATE_STATS procedure.

Convention	Meaning	Example
lowercase monospace (fixed-width) font	Lowercase monospace typeface indicates executables, filenames, directory names, and sample user-supplied elements. Such elements include computer and database names, net service names, and connect identifiers, as well as user-supplied database objects and structures, column names, packages and classes, usernames and roles, program units, and parameter values. Note: Some programmatic elements use a mixture of UPPERCASE and lowercase. Enter these elements as shown.	Enter <code>sqlplus</code> to open SQL*Plus. The password is specified in the <code>orapwd</code> file. Back up the datafiles and control files in the <code>/disk1/oracle/dbs</code> directory. The <code>department_id</code> , <code>department_name</code> , and <code>location_id</code> columns are in the <code>hr.departments</code> table. Set the <code>QUERY_REWRITE_ENABLED</code> initialization parameter to <code>true</code> . Connect as <code>oe</code> user. The <code>JReplUtil</code> class implements these methods.
lowercase italic monospace (fixed-width) font	Lowercase italic monospace font represents placeholders or variables.	You can specify the <i>parallel_clause</i> . Run <code>Uold_release.SQL</code> where <i>old_release</i> refers to the release you installed before upgrading.

Conventions in Code Examples

Code examples illustrate SQL, PL/SQL, SQL*Plus, or other command-line statements. They are displayed in a monospace (fixed-width) font and separated from normal text as shown in this example:

```
SELECT username FROM dba_users WHERE username = 'MIGRATE';
```

The following table describes typographic conventions used in code examples and provides examples of their use.

Convention	Meaning	Example
[]	Brackets enclose one or more optional items. Do not enter the brackets.	DECIMAL (<i>digits</i> [, <i>precision</i>])
{ }	Braces enclose two or more items, one of which is required. Do not enter the braces.	{ENABLE DISABLE}
	A vertical bar represents a choice of two or more options within brackets or braces. Enter one of the options. Do not enter the vertical bar.	{ENABLE DISABLE} [COMPRESS NOCOMPRESS]
...	Horizontal ellipsis points indicate either: <ul style="list-style-type: none"> That we have omitted parts of the code that are not directly related to the example That you can repeat a portion of the code 	CREATE TABLE ... AS <i>subquery</i> ; SELECT <i>col1</i> , <i>col2</i> , ... , <i>coln</i> FROM <i>employees</i> ;
.	Vertical ellipsis points indicate that we have omitted several lines of code not directly related to the example.	
Other notation	You must enter symbols other than brackets, braces, vertical bars, and ellipsis points as shown.	<code>acctbal</code> NUMBER(11,2); <code>acct</code> CONSTANT NUMBER(4) := 3;

Convention	Meaning	Example
<i>Italics</i>	Italicized text indicates placeholders or variables for which you must supply particular values.	CONNECT SYSTEM/ <i>system_password</i> DB_NAME = <i>database_name</i>
UPPERCASE	Uppercase typeface indicates elements supplied by the system. We show these terms in uppercase to distinguish them from terms you define. Unless terms appear in brackets, enter them in the order and with the spelling shown. However, because these terms are not case sensitive, you can enter them in lowercase.	SELECT last_name, employee_id FROM employees; SELECT * FROM USER_TABLES; DROP TABLE hr.employees;
lowercase	Lowercase typeface indicates programmatic elements that you supply. For example, lowercase indicates names of tables, columns, or files. Note: Some programmatic elements use a mixture of UPPERCASE and lowercase. Enter these elements as shown.	SELECT last_name, employee_id FROM employees; sqlplus hr/hr CREATE USER mjones IDENTIFIED BY ty3MU9;

Conventions for Microsoft Windows Operating Systems

The following table describes conventions for Microsoft Windows operating systems and provides examples of their use.

Convention	Meaning	Example
Choose Start >	How to start a program.	To start the Database Configuration Assistant, choose Start > Programs > Oracle - <i>HOME_NAME</i> > Configuration and Migration Tools > Database Configuration Assistant.
File and directory names	File and directory names are not case sensitive. The following special characters are not allowed: left angle bracket (<), right angle bracket (>), colon (:), double quotation marks ("), slash (/), pipe (), and dash (-). The special character backslash (\) is treated as an element separator, even when it appears in quotes. If the file name begins with \\, then Windows assumes it uses the Universal Naming Convention.	c:\winnt\"system32 is the same as C:\WINNT\SYSTEM32
C:\>	Represents the Windows command prompt of the current hard disk drive. The escape character in a command prompt is the caret (^). Your prompt reflects the subdirectory in which you are working. Referred to as the <i>command prompt</i> in this manual.	C:\oracle\oradata>

Convention	Meaning	Example
	<p>The backslash (\) special character is sometimes required as an escape character for the double quotation mark (") special character at the Windows command prompt. Parentheses and the single quotation mark (') do not require an escape character. Refer to your Windows operating system documentation for more information on escape and special characters.</p>	<pre>C:\>exp scott/tiger TABLES=emp QUERY=\"WHERE job='SALESMAN' and sal<1600\" C:\>imp SYSTEM/password FROMUSER=scott TABLES=(emp, dept)</pre>
<i>HOME_NAME</i>	<p>Represents the Oracle home name. The home name can be up to 16 alphanumeric characters. The only special character allowed in the home name is the underscore.</p>	<pre>C:\> net start OracleHOME_ NAMETNSListener</pre>

Oracle Application Server Integration B2B Installation Overview

This chapter provides an overview of installation scenarios and tasks for Oracle Application Server Integration B2B.

This chapter contains these topics:

- [OracleAS Integration B2B Components Overview](#)
- [Installation Deployment Scenarios](#)
- [Installation Tasks Overview](#)

OracleAS Integration B2B Components Overview

OracleAS Integration B2B provides a complete, integrated product for designing, deploying, and managing integrations between enterprises.

OracleAS Integration B2B components reside in the following locations:

- Oracle Application Server middle tier

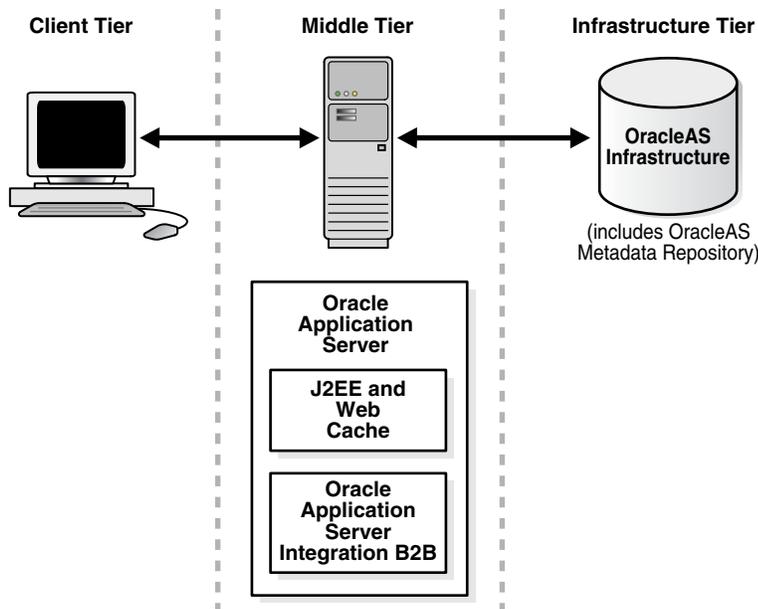
OracleAS Integration B2B installation installs class libraries and a user interface tool. OracleAS Integration B2B must be installed in the same Oracle home directory as the J2EE and Web Cache installation type of Oracle Application Server 10g (10.1.2). The J2EE and Web Cache installation type provides a Web server that enables you to develop and deploy Java 2 Enterprise Edition (J2EE) applications and accelerate Web site performance with Oracle Application Server Web Cache.
- Oracle Application Server Metadata Repository

OracleAS Integration B2B database schema is stored in the Oracle Application Server Metadata Repository of Oracle Application Server Infrastructure.

See Also: *Oracle Application Server Integration B2B User's Guide* for more details about OracleAS Integration B2B

Figure 1–1 shows OracleAS Integration B2B with the Oracle Application Server Infrastructure.

Figure 1–1 OracleAS Integration B2B with Oracle Application Server Metadata Repository



Note: Oracle strongly recommends that you install the middle and infrastructure tiers on separate hosts for better performance, as shown in Figure 1–1. Running all Oracle components on the same host is possible, but not recommended.

Installation Deployment Scenarios

OracleAS Integration B2B can be configured with the Oracle Application Server Metadata Repository running in Oracle Application Server Infrastructure, Oracle Database 10g, or Oracle Database 9i version 9.2.0.5.0. Both scenarios are described in the following sections:

- [Scenario 1: OracleAS Integration B2B Configuration with Oracle Application Server Infrastructure](#)
- [Scenario 2: OracleAS Integration B2B Configuration with Oracle Database 10g or Oracle Database 9i version 9.2.0.5.0](#)

Note: If you are using Oracle9iAS Infrastructure 9.0.2 or 9.0.3 or Oracle Application Server Infrastructure 9.0.4, you must first upgrade it to the current release of the Oracle Application Server Infrastructure.

See Also: *Oracle Application Server Upgrade and Compatibility Guide* for upgrade instructions

Scenario 1: OracleAS Integration B2B Configuration with Oracle Application Server Infrastructure

Oracle Application Server Infrastructure includes an Oracle Application Server Metadata Repository, a single sign-on server, and Oracle Internet Directory, a lightweight directory access protocol (LDAP). The Oracle Application Server Metadata Repository is registered by default in Oracle Internet Directory. You can optionally associate this Oracle Application Server Metadata Repository version with OracleAS Integration B2B by selecting the Identity Management Access configuration option during installation.

Scenario 2: OracleAS Integration B2B Configuration with Oracle Database 10g or Oracle Database 9i version 9.2.0.5.0

Oracle Database 10g or Oracle Database 9i version 9.2.0.5.0 can be configured for use as the Oracle Application Server Metadata Repository by running the Oracle Application Server Metadata Repository Creation Assistant (RepCA) tool. The Oracle Application Server Metadata Repository is registered by default in Oracle Internet Directory. You can optionally associate this Oracle Application Server Metadata Repository version with OracleAS Integration B2B by selecting the Identity Management Access configuration option during installation.

See Also: *Oracle Application Server Metadata Repository Creation Assistant User's Guide* for details about Oracle Application Server Metadata Repository Creation Assistant

Installation Tasks Overview

Table 1–1 provides an overview of installation tasks to perform based on the type of Oracle Application Server Metadata Repository you are using and provides references to procedures for performing these tasks.

Table 1–1 Installation Overview

If Using...	Follow These Steps...	See Also...
Oracle Application Server Infrastructure	<ol style="list-style-type: none"> 1. Install or upgrade to Oracle Application Server Infrastructure (10.1.2), which includes the current release of the Oracle Application Server Metadata Repository. 2. Install the current release of the J2EE and Web Cache installation type on the Oracle Application Server middle tier. 3. Install the current release of OracleAS Integration B2B on the Oracle Application Server middle tier in the same Oracle home as J2EE and Web Cache. During installation, you can optionally select Identity Management Access at Step 10 on page 3-6. This associates an Oracle Application Server Metadata Repository registered in Oracle Internet Directory with OracleAS Integration B2B. 	<p><i>Oracle Application Server Installation Guide</i> for your operating system</p> <p><i>Oracle Application Server Upgrade and Compatibility Guide</i></p> <p><i>Oracle Application Server Installation Guide</i> for your operating system</p> <p>Chapter 3, "Oracle Application Server Integration B2B Installation Procedures" of this guide</p>
Oracle Database 10g (10.1) or Oracle Database 9i version 9.2.0.5.0	<ol style="list-style-type: none"> 1. Install Oracle Database 10g or Oracle Database 9i version 9.2.0.5.0. 2. Create the current release of the Oracle Application Server Metadata Repository in Oracle Database 10g or Oracle Database 9i version 9.2.0.5.0 using Oracle Application Server Metadata Repository Creation Assistant. 3. Install the current release of the J2EE and Web Cache installation type on the Oracle Application Server middle tier. 4. Install the current release of OracleAS Integration B2B on the Oracle Application Server middle tier in the same Oracle home as J2EE and Web Cache. During installation, you can optionally select Identity Management Access at Step 10 on page 3-6. This associates an Oracle Application Server Metadata Repository registered in Oracle Internet Directory with OracleAS Integration B2B. 	<p><i>Oracle Database Installation Guide 10g</i></p> <p><i>Oracle Database Installation Guide 9i</i></p> <p><i>Oracle Application Server Metadata Repository Creation Assistant User's Guide</i></p> <p><i>Oracle Application Server Installation Guide</i> for your operating system</p> <p>Chapter 3, "Oracle Application Server Integration B2B Installation Procedures" of this guide</p>

Oracle Application Server Integration B2B Installation Requirements

This chapter describes requirements for installing Oracle Application Server Integration B2B.

This chapter contains these topics:

- [System Requirements](#)
- [Supported Web Browsers](#)
- [Migration Restrictions](#)
- [Globalization Requirements](#)

System Requirements

Table 2–1 describes OracleAS Integration B2B system requirements.

Note: OracleAS Integration B2B and the J2EE and Web Cache installation type must be installed in the same Oracle home of the same host. Ensure that your host has sufficient memory and disk space for both components.

Table 2–1 OracleAS Integration B2B System Requirements

Element	Requirement
Memory	The J2EE and Web Cache installation type requirement of 512 MB includes OracleAS Integration B2B memory requirements.
Disk space (OracleAS Integration B2B only)	<ul style="list-style-type: none"> ■ 305 MB for Windows ■ 429 MB for Solaris ■ 500 MB for Linux ■ 500 MB for HP-UX
Operating system	<ul style="list-style-type: none"> ■ Sun SPARC Solaris version 8 or 9 <p>See Also: <i>Oracle Application Server Installation Guide 10g Release 2 (10.1.2) for Solaris Operating System (SPARC)</i> for information on any required operating system patches and packages, swap space requirements, and kernel parameter settings</p> ■ HP-UX PA-RISC 11.11 and 11.23 <p>Note: Ensure that the <code>/usr/lib/libCsup_v2.2</code> library file has read and execute privileges for all users before installing OracleAS Integration B2B on HP-UX. See HP patches PHSS_30968 and PHSS_28879.</p> <p>See Also: <i>Oracle Application Server Installation Guide 10g Release 2 (10.1.2) for hp HP-UX PA-RISC (64-bit) and Linux x86</i> for information on any required operating system patches and packages and kernel parameter settings</p> ■ Red Hat Enterprise Linux AS/ES 2.1 and 3.0 ■ SUSE Linux Enterprise Server 8 and 9 <p>Note: These supported versions are for Linux on the x86 architecture. Check the Certify section of <i>OracleMetaLink</i> (http://metalink.oracle.com) for support of these Linux versions on different architectures.</p> <p>See Also: <i>Oracle Application Server Installation Guide 10g Release 2 (10.1.2) for hp HP-UX PA-RISC (64-bit) and Linux x86</i> for information on any required operating system patches and packages and kernel parameter settings</p> ■ Windows 2000 with Service Pack 3 ■ Windows XP ■ Windows 2003 <p>See Also: <i>Oracle Application Server Installation Guide 10g Release 2 (10.1.2) for Microsoft Windows</i> for information on processor, TEMP directory, virtual memory, and swap space requirements</p>

Table 2–1 (Cont.) OracleAS Integration B2B System Requirements

Element	Requirement
Oracle Application Server Metadata Repository	Use the current release of the Oracle Application Server Metadata Repository, which includes the Oracle Application Server Integration B2B (10.1.2) schema. See Also: " Step 1: Install or Upgrade to the Current Release of the Oracle Application Server Metadata Repository " on page 3-2 for information on installing or upgrading to the required Oracle Application Server Metadata Repository release
J2EE and Web Cache	Use the current release of J2EE and Web Cache.

Supported Web Browsers

Table 2–2 lists the supported Web browsers for using the OracleAS Integration B2B user interface tool.

Table 2–2 Supported Web Browsers

Operating System	Supported Browser
UNIX	Netscape 7.0
Windows 2000	Internet Explorer 5.5 and 6.0
Windows XP	Internet Explorer 6.0

Notes:

- Install a Web browser using the Typical installation option. Custom-installed browsers can have problems with popup windows such as the calendar selection.
 - Ensure that cookies are enabled in your Web browser. The OracleAS Integration B2B caching mechanism uses cookies to identify user sessions.
-
-

Migration Restrictions

You cannot migrate the data of previous or current releases of the following components to this release of OracleAS Integration B2B:

- Oracle*9i*AS InterConnect
- Oracle Application Server InterConnect
- Oracle Application Server Integration InterConnect
- Oracle Application Server ProcessConnect

Globalization Requirements

Review the following OracleAS Integration B2B globalization status issues:

- OracleAS Integration B2B globalization support is only available if the database of the Oracle Application Server Metadata Repository is release 9.2.0.5 with a character set of UTF8 or Oracle Database 10g with a character set of AL32UTF8. If you want globalization support with OracleAS Integration B2B, you must perform the following tasks:

Note: If you do not follow these tasks, you *cannot* add OracleAS Integration B2B globalization support at a later time.

1. Install Oracle Database 10g and select AL32UTF8 as the database character set.
 2. Use Oracle Application Server Metadata Repository Creation Assistant to create an Oracle Application Server Metadata Repository in Oracle Database 10g.
- Seed data is provided in English only.
 - The OracleAS Integration B2B user interface tool is translated into nine languages. To display the user interface tool in one of these languages, select the appropriate language during installation from the product language list.
 - The online help available with the OracleAS Integration B2B user interface tool is only available in English for this release.
 - The UTF8 character set does not support supplemental characters. While AL32UTF8 supports supplemental characters, the `XMLType` does not support character set conversions on a 9.x database and the JDBC driver uses UTF8 to transfer text data. The JDBC driver supports AL32UTF8. The JDBC driver uses UTF8 to communicate with the Oracle Application Server Metadata Repository. The `XMLType` on the Oracle9i Database does not handle conversions between UTF8 and AL32UTF8. Using the UTF8 character set is the only option that works in this situation.
 - If you want to use globalization support, you must add the following parameter to the `ORACLE_HOME/ip/config/tip.properties` file with the correct multipurpose internet mail extension (MIME) type for UTF-8 character set support:

```
oracle.tip.adapter.b2b.MimeType = application/xml : text/plain;
charset=ISO8859-1
```

If you do not perform this task, you receive the following error:

```
AIP-50082: document protocol identification error
```

See Also: *Oracle Application Server Integration B2B User's Guide* in the Oracle Application Server 10g Documentation Library

Note: Ensure that you install J2EE and Web Cache and OracleAS Integration B2B under the same operating system locale (for example, install both in English). If you install J2EE and Web Cache and OracleAS Integration B2B under different locales (for example, one in English and the other in Japanese), installation does not complete.

Oracle Application Server Integration B2B Installation Procedures

This chapter describes how to install Oracle Application Server Integration B2B components.

This chapter contains these topics:

- [Preinstallation Tasks](#)
- [Installation Tasks](#)
- [Postinstallation Configuration Security Tasks](#)
- [Postinstallation Verification Tasks](#)
- [OracleAS Integration B2B - Document Editor Installation](#)
- [Installing Multiple OracleAS Integration B2B Versions on a Single Host](#)
- [Troubleshooting Installation or Configuration Problems](#)
- [Directory Structure](#)
- [Deinstallation Tasks](#)
- [Silent and Noninteractive Installation](#)

Note: In addition to installing from CD-ROM, you can also install Oracle Application Server Integration B2B from DVD. Oracle Application Server Integration B2B installation files are located in the b2b directory of the DVD. See the *Oracle Application Server Installation Guide* for your operating system for additional information on DVD installations.

Note: Unless otherwise noted, the directory paths shown in this chapter follow UNIX conventions (for example, forward slashes (/) are used). If using Integration B2B on a Windows operating system, modify your directory paths as required.

Preinstallation Tasks

You must complete the following preinstallation tasks before installing OracleAS Integration B2B.

- [Step 1: Install or Upgrade to the Current Release of the Oracle Application Server Metadata Repository](#)
- [Step 2: Unlock or Obtain the OracleAS Integration B2B Schema User Password](#)
- [Step 3: Verify Oracle Application Server Metadata Repository Initialization Parameters](#)
- [Step 4: Install the J2EE and Web Cache Installation Type of Oracle Application Server](#)
- [Step 5: Remember User Names and Passwords](#)

Step 1: Install or Upgrade to the Current Release of the Oracle Application Server Metadata Repository

Install or upgrade to the current release of the Oracle Application Server Metadata Repository through one of the following methods.

- Install an Oracle Application Server Infrastructure 10.1.2 version (includes the Oracle Application Server Metadata Repository) from the Oracle Application Server software CD-ROM.
- Run Oracle Application Server Metadata Repository Creation Assistant to create the current release of the Oracle Application Server Metadata Repository from Oracle Database 10g or Oracle Database 9i version 9.2.0.5.0.
- Run the Oracle Application Server Upgrade Assistant to upgrade a release 9.0.2 or 9.0.3 Oracle9iAS Metadata Repository or release 9.0.4 Oracle Application Server Metadata Repository to the current release.

See Also:

- *Oracle Application Server Installation Guide* for your operating system for instructions on installing the current release of the Oracle Application Server Infrastructure (which includes the Oracle Application Server Metadata Repository)
- *Oracle Application Server Metadata Repository Creation Assistant User's Guide* for instructions on running Oracle Application Server Metadata Repository Creation Assistant
- *Oracle Application Server Upgrade and Compatibility Guide* for instructions on upgrading to the current release of the Oracle Application Server Metadata Repository

Step 2: Unlock or Obtain the OracleAS Integration B2B Schema User Password

Ensure that you remember the OracleAS Integration B2B schema password (for the user name b2b) from the Oracle Application Server Metadata Repository installation. You are prompted for this password if you install OracleAS Integration B2B and do not select Identity Management Access in Step 10 of "[Beginning the Installation](#)" on page 3-6. This configures OracleAS Integration B2B with an Oracle Application Server Metadata Repository not registered with Oracle Internet Directory.

The methods for unlocking and obtaining these passwords are based on the following scenarios:

If You...	Then...
<ul style="list-style-type: none"> ■ Installed the Oracle Application Server Metadata Repository included with Oracle Application Server Infrastructure, but did not register it with Oracle Internet Directory ■ Ran Oracle Application Server Metadata Repository Creation Assistant to upgrade Oracle Database 10g or Oracle Database 9i version 9.2.0.5.0 to the current release of the Oracle Application Server Metadata Repository, but did not install Oracle Internet Directory 	<p>The passwords are automatically locked and must be changed.</p> <ol style="list-style-type: none"> 1. Start SQL*Plus: <code>sqlplus /NOLOG</code> 2. Connect to the Oracle Application Server Metadata Repository: <code>CONNECT / AS SYSDBA</code> 3. Unlock the OracleAS Integration B2B account with the following default password: <code>ALTER USER b2b IDENTIFIED BY b2b ACCOUNT UNLOCK;</code> <p>Note: For security reasons, Oracle recommends that you then change the password for this account. For example: <code>ALTER USER b2b IDENTIFIED BY new_b2b_passwd;</code></p> <p>See the <i>Oracle Application Server Administrator's Guide</i> for details.</p>
<p>Are using an Oracle Application Server Metadata Repository <i>already</i> registered with Oracle Internet Directory, but you do not want to configure OracleAS Integration B2B with Oracle Internet Directory during installation</p>	<p>Use the <code>ldapsearch</code> command line tool to obtain the randomly-generated passwords, as described in the <i>Oracle Application Server Administrator's Guide</i>.</p>

Step 3: Verify Oracle Application Server Metadata Repository Initialization Parameters

Verify that the following Oracle Application Server Metadata Repository initialization parameters are set to at least these values:

- `JOB_QUEUE_PROCESSES` is greater than or equal to 5
 - `AQ_TM_PROCESSES` is greater than or equal to 5
 - `OPEN_CURSORS` is greater than or equal to 1000
1. Log in to SQL*Plus on the host on which the Oracle Application Server Metadata Repository is installed.
`sqlplus /NOLOG`
 2. Connect to the Oracle Application Server Metadata Repository as the `SYS` user.
`SQL> CONNECT SYS/password AS SYSDBA`
 3. Verify the following initialization parameter settings:
`SQL> SELECT name, value FROM v$parameter WHERE name = 'JOB_QUEUE_PROCESSES';`
`SQL> SELECT name, value FROM v$parameter WHERE name = 'AQ_TM_PROCESSES';`
`SQL> SELECT name, value FROM v$parameter WHERE name = 'OPEN_CURSORS';`

4. Reset any initialization parameters to the recommended values:

```
SQL> ALTER SYSTEM SET JOB_QUEUE_PROCESSES=5 SCOPE=spfile;  
SQL> ALTER SYSTEM SET AQ_TM_PROCESSES=5 SCOPE=spfile;  
SQL> ALTER SYSTEM SET OPEN_CURSORS=1000 SCOPE=spfile;
```

5. Stop and restart the Oracle Application Server Metadata Repository.

```
SQL> SHUTDOWN  
SQL> STARTUP
```

Step 4: Install the J2EE and Web Cache Installation Type of Oracle Application Server

As shown in [Figure 1–1](#) on page 1-2, Oracle recommends that you install the J2EE and Web Cache installation type of Oracle Application Server 10g Release 2 (10.1.2) on a separate middle-tier host (not the same host on which the Oracle Application Server Metadata Repository is installed). Oracle recommends a separate host to optimize performance. You cannot use a pre-10g Release 2 (10.1.2) version of J2EE and Web Cache.

See Also: *Oracle Application Server Installation Guide* for your operating system for J2EE and Web Cache installation instructions

Step 5: Remember User Names and Passwords

Ensure that you remember the following information from the Oracle Application Server Metadata Repository or J2EE and Web Cache installation. You can be prompted to enter this information during OracleAS Integration B2B installation.

- The Oracle Internet Directory administrator user name and password you entered during Oracle Application Server Metadata Repository installation. You need this information if you want to associate OracleAS Integration B2B with an Oracle Application Server Metadata Repository registered with Oracle Internet Directory.
- The Oracle Application Server administrator's password (for user name `ias_admin`) entered during J2EE and Web Cache installation. This password is also used for accessing the OracleAS Integration B2B user interface tool and the Oracle Enterprise Manager 10g Application Server Control Console. You need this password whether or not you associate OracleAS Integration B2B with an Oracle Application Server Metadata Repository registered with Oracle Internet Directory.

Installation Tasks

Follow these instructions to install OracleAS Integration B2B:

- [Beginning the Installation](#)
- [Installing OracleAS Integration B2B without Identity Management Access](#)
- [Installing OracleAS Integration B2B with Identity Management Access](#)
- [Completing the Installation](#)

Beginning the Installation

1. Ensure that all preinstallation tasks and requirements described in "[Preinstallation Tasks](#)" on page 3-2 have been completed.
2. Log on to the middle-tier host on which you installed the J2EE and Web Cache installation type of Oracle Application Server.

3. If installing on Solaris, Linux, or HP-UX, see the appropriate *Oracle Application Server Installation Guide* for each operating system for instructions on:
 - Setting the mount point for the CD-ROM
 - Starting Oracle Universal Installer
4. Insert the OracleAS Integration CD-ROM.
5. Start the Oracle Universal Installer from the root of the CD-ROM or from the `Disk1` directory:

On...	Do This...
Solaris, Linux, or HP-UX	Enter the following command at the operating system prompt: <code>./runInstaller</code>
Windows	Click <code>setup.exe</code> .

The Welcome screen appears.

6. Click **Next**.

Note: If your host is detected to be part of a cluster, the Specify Hardware Cluster Installation Mode screen appears. Select **Noncluster Installation**. This installs OracleAS Integration B2B on this node only, and not as part of a cluster node. Do not select **Cluster Installation**.

The Specify File Locations screen appears.

7. Select the Oracle home name and directory path in which to install Oracle components in the **Destination** fields. The directory path must be the same one in which you installed the J2EE and Web Cache installation type. Do not change the directory path in the **Source** field. This is the location of OracleAS Integration B2B installation files.
8. Click **Next**.

The Select a Product to Install screen appears.

Product	Description
Oracle Application Server Integration InterConnect	Enables you to integrate heterogeneous systems such as Oracle Applications, non-Oracle applications, or third-party, messaging-oriented middleware (MOM). Oracle Application Server Integration InterConnect is a high-speed message broker suited for the data and application integration market. Integrations can be deployed within an enterprise or across enterprise boundaries through the Internet. See Also: <i>Oracle Application Server Integration InterConnect Installation Guide</i> for instructions on installing Oracle Application Server Integration InterConnect
Oracle Application Server Integration B2B	Enables you to design, deploy, monitor, and manage integrations between enterprises (also known as business-to-business (B2B) integrations). Oracle Application Server Integration B2B enables trading partners to conduct business using RosettaNet, electronic data interchange (EDI), or a custom business protocol.

9. Select Oracle Application Server Integration B2B and click **Next**.

The Integration B2B Component Configuration screen displays the following components to configure and automatically start at the end of installation:

Configuration Option	Description
OracleAS Metadata Repository	Contains OracleAS Integration B2B schemas and metadata. The Oracle Application Server Metadata Repository is automatically selected for configuration, and cannot be deselected.
Identity Management Access	Associates the Oracle Application Server Metadata Repository registered in Oracle Internet Directory to use with this OracleAS Integration B2B instance. This Oracle Application Server Metadata Repository contains schemas and metadata required by OracleAS Integration B2B. Notes: <ul style="list-style-type: none"> ▪ Identity Management Access is automatically selected and cannot be deselected if you configured it during the J2EE and Web Cache installation session. ▪ Identity Management Access is selectable if you did not install it during the J2EE and Web Cache installation session.

See Also: *Oracle Application Server Concepts* in the Oracle Application Server 10g Documentation Library for additional details about the Oracle Application Server Metadata Repository and Identity Management Access

10. Select whether or not to use Identity Management Access, and click **Next**.

If...	Then During This Installation Process...	Go To...
You do not select Identity Management Access	You select an Oracle Application Server Metadata Repository to use with this OracleAS Integration B2B instance that is <i>not</i> registered with Oracle Internet Directory.	"Installing OracleAS Integration B2B without Identity Management Access" on page 3-7
You select Identity Management Access	You associate an Oracle Application Server Metadata Repository to use with this OracleAS Integration B2B instance that is registered with Oracle Internet Directory.	Step 1 of "Installing OracleAS Integration B2B with Identity Management Access" on page 3-8
You previously selected Identity Management Access during J2EE and Web Cache installation	The check box is grayed out. You specify the login credentials for the Oracle Internet Directory to use with this OracleAS Integration B2B instance.	Step 3 of "Installing OracleAS Integration B2B with Identity Management Access" on page 3-8

See Also: *Oracle Application Server Installation Guide* for your operating system for additional details about configuring Identity Management Access after installation if you do not want to configure it during installation

Installing OracleAS Integration B2B without Identity Management Access

1. Enter the following information on the Specify Metadata Repository for Integration B2B screen. Information is required for all fields.

Field	Description
Password for Integration B2B Schema (b2b)	<p>Enter the password for the OracleAS Integration B2B schema.</p> <p>See Also: "Step 2: Unlock or Obtain the OracleAS Integration B2B Schema User Password" on page 3-2 for instructions on obtaining the b2b password for the OracleAS Integration B2B schema, which can require unlocking.</p>
Hostname and Port	<p>Enter the name and the port number of the host on which the Oracle Application Server Metadata Repository database is installed. Use the following format:</p> <p><i>hostname:port</i></p> <p>Use the following format for Oracle Real Application Clusters:</p> <p><i>hostname:port,hostname:port,hostname:port</i></p>
Service Name	<p>Enter the service name for the Oracle Application Server Metadata Repository. The service name was specified during Oracle Application Server Infrastructure installation.</p> <p>The service name value reflects the global database name, which comprises the database name (for example, <i>db_sales</i>) and domain name (for example, <i>.us.oracle.com</i>). This name uniquely identifies it from any other database on the network. For example:</p> <p><i>db_sales.us.oracle.com</i></p> <p>The service name is different from the database system identifier (SID), which uniquely identifies the database name only (for example, <i>db_sales</i>).</p>
ias_admin Password	<p>Enter the OracleAS Integration B2B password. This is the password you entered during J2EE and Web Cache installation. When installation is complete, you use this password to log in to the following tools:</p> <ul style="list-style-type: none"> ■ The OracleAS Integration B2B user interface tool with the <i>admin</i> user name ■ Oracle Enterprise Manager 10g Application Server Control Console with the <i>ias_admin</i> user name <p>See Also: <i>Oracle Application Server Administrator's Guide</i> in the Oracle Application Server 10g Documentation Library for instructions on resetting the <i>ias_admin</i> password if you do not remember it</p>

See Also: *Oracle Application Server Administrator's Guide* in the Oracle Application Server 10g Documentation Library for instructions on changing the OracleAS Integration B2B schema password

2. Click **Next**.
3. If the Oracle Application Server Metadata Repository you selected does not provide globalization support for OracleAS Integration B2B, an onscreen message notifies you. Make an appropriate selection:
 - Click **Continue** if you do not want globalization support.
 - Click **Retry** to select a different Oracle Application Server Metadata Repository that includes globalization support for OracleAS Integration B2B.

The Summary screen appears.

4. Go to ["Completing the Installation"](#) on page 3-9.

Installing OracleAS Integration B2B with Identity Management Access

1. Enter the following information on the Register with Oracle Internet Directory screen to register this Oracle Application Server middle tier with Oracle Internet Directory.

Field	Description
Hostname	Enter the name of the host on which Oracle Internet Directory is installed.
Port	Enter the port number for the host.
Use only SSL connections with Oracle Internet Directory	Select the checkbox if you want to use secure socket layer (SSL) for all connections from this middle tier to Oracle Internet Directory.

2. Click **Next**. If you specified an Oracle Internet Directory with only one realm, the Specify Login for Oracle Internet Directory screen appears.
3. Enter the following information on the Specify Login for Oracle Internet Directory screen.

Field	Description
Username	Enter a user name that belongs to the iASAdmins group. The user name you enter is authenticated against this realm.
Password	Enter the password for this user name.

See Also: *Oracle Internet Directory Administrator's Guide* in the Oracle Application Server 10g Documentation Library for a description of realms

4. Click **Next**.

The Select Metadata Repository screen appears.

5. Select the Oracle Application Server Metadata Repository to use with this Oracle Application Server middle tier. Only an Oracle Application Server Metadata Repository registered with Oracle Internet Directory appears.

This Oracle Application Server Metadata Repository must include the OracleAS Integration B2B schema. The OracleAS Integration B2B schema is available in your repository if you performed one of the following tasks:

- Installed the current release of the Oracle Application Server Metadata Repository
- Ran Oracle Application Server Metadata Repository Creation Assistant to create the current release of the Oracle Application Server Metadata Repository in Oracle Database 10g or Oracle Database 9i version 9.2.0.5.0
- Ran the Upgrade Assistant to upgrade a release 9.0.2 or 9.0.3 Oracle9iAS Metadata Repository or release 9.0.4 Oracle Application Server Metadata Repository to the current release of the Oracle Application Server Metadata Repository

6. Click **Next**.
7. If the Oracle Application Server Metadata Repository you selected does not provide globalization support for OracleAS Integration B2B, an onscreen message notifies you. Make an appropriate selection:
 - Click **Continue** if you do not want globalization support.
 - Click **Retry** to select a different Oracle Application Server Metadata Repository that includes globalization support for OracleAS Integration B2B.

The Specify `ias_admin` Password screen appears.
8. Enter the password for OracleAS Integration B2B. This is the password you entered during J2EE and Web Cache installation. When installation is complete, you use this password when logging into the following tools:
 - The OracleAS Integration B2B user interface tool with the `admin` user name
 - The Oracle Enterprise Manager 10g Application Server Control Console with the `ias_admin` user name

See Also: *Oracle Application Server Administrator's Guide* in the Oracle Application Server 10g Documentation Library for instructions on resetting the `ias_admin` password if you do not remember it
9. Click **Next**.

The Summary screen appears.
10. Go to "[Completing the Installation](#)" on page 3-9.

Completing the Installation

1. Review specific details, including the space requirements to ensure that you have sufficient disk space.
2. Click **Install** to install the components.

After installation completes, the following postinstallation configuration tools are started to automatically configure OracleAS Integration B2B.

Tool	Description
Integration B2B Configuration Assistant	Configures the OracleAS Integration B2B schema
Integration B2B J2EE Application Deployment	Configures the OracleAS Integration B2B web application
OPMN Configuration Assistant	Registers OracleAS Integration B2B with Oracle Process Management Notification (OPMN)
Register DCM Plug-Ins with EM	Registers Distributed Configuration Management (DCM) plug-ins with Oracle Enterprise Manager
Enterprise Manager Agent Configuration Assistant	Registers OracleAS Integration B2B with Oracle Enterprise Manager Agent
Enterprise Manager Web Site Configuration Assistant	Registers OracleAS Integration B2B with Oracle Enterprise Manager Web Site

If installation and configuration are successful, the End of Installation screen appears and displays a message saying that installation was successful. If installation or configuration is unsuccessful, see "[Troubleshooting Installation or Configuration Problems](#)" on page 3-24.

3. Click **Next**.

The End of Installation screen displays details about your installation session, including the Oracle Application Server Metadata Repository being used, assigned port numbers, and instructions for logging into the following tools:

- The OracleAS Integration B2B user interface tool
- The Oracle Enterprise Manager 10g Application Server Control Console

4. Remember the instructions for logging into these tools. These instructions are also described in the `ipsetupinfo.txt` file located in the `install` subdirectory of your OracleAS Integration B2B Oracle home directory.

5. Click **Exit**.

See Also:

- "[Postinstallation Configuration Security Tasks](#)" on page 3-10 for instructions on postinstallation configuration steps to perform
- "[Postinstallation Verification Tasks](#)" on page 3-20 for instructions on accessing the OracleAS Integration B2B user interface tool, Oracle Enterprise Manager 10g Application Server Control Console, and transport servlet

Postinstallation Configuration Security Tasks

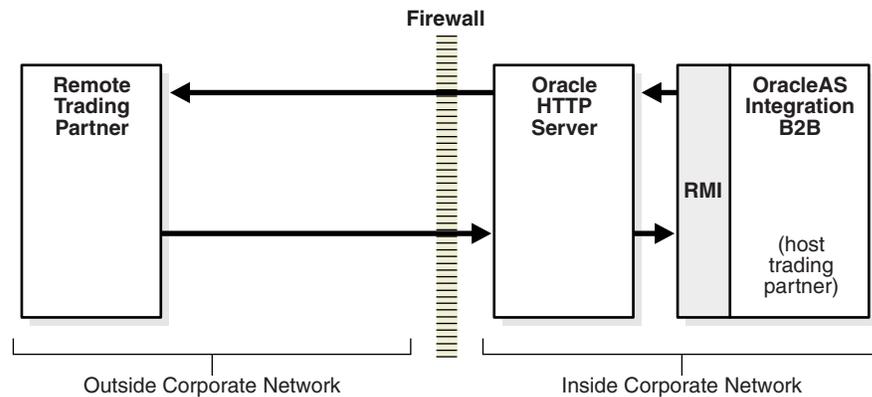
You can perform the following postinstallation configuration security tasks:

- [Configuring an Additional Oracle HTTP Server Outside Your Corporate Network](#)
- [Configuring SSL for the Oracle HTTP Server and OracleAS Integration B2B Instances](#)

Configuring an Additional Oracle HTTP Server Outside Your Corporate Network

After you install J2EE and Web Cache and OracleAS Integration B2B, an Oracle HTTP Server instance is automatically started and configured to receive messages from remote trading partners and pass them onto your OracleAS Integration B2B instance. Both instances are installed in the same Oracle home directory on the same host inside your corporate network. [Figure 3-1](#) shows this configuration.

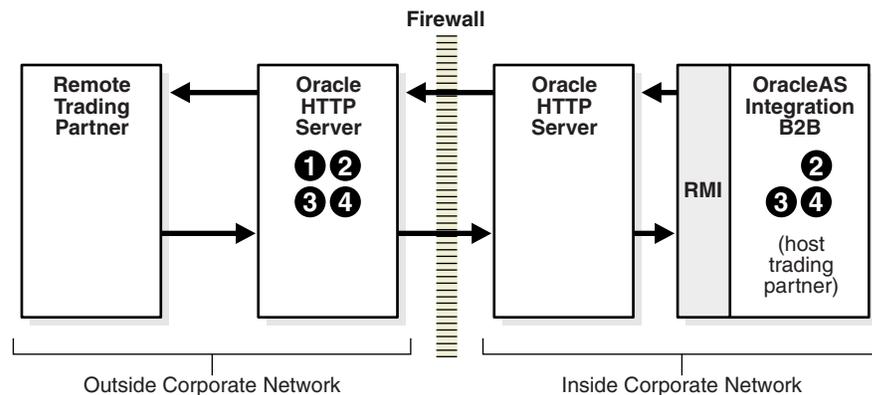
Figure 3–1 Configuration After Installation



For security reasons, Oracle recommends that you install and configure an additional Oracle HTTP Server outside your corporate network to receive messages from remote trading partners and pass them onto the Oracle HTTP Server and OracleAS Integration B2B instances inside your corporate network. This additional Oracle HTTP Server hides the actual location of the host trading partner from all outside parties.

Figure 3–2 shows this configuration and identifies the tasks to perform to configure an additional Oracle HTTP Server outside your corporate network.

Figure 3–2 Oracle HTTP Server Configuration Tasks



- ❶ Install the Oracle HTTP Server outside the corporate network
- ❷ Configure OPMN for Oracle HTTP Server and OracleAS Integration B2B communication
- ❸ Configure mod_oc4j for the Oracle HTTP Server and OracleAS Integration B2B
- ❹ Configure mod_proxy for the Oracle HTTP Server and OracleAS Integration B2B

The tasks shown in Figure 3–2 are described in the following sections:

- [Task 1: Install the Oracle HTTP Server Outside the Corporate Network](#)
- [Task 2: Configure OPMN for Oracle HTTP Server and OracleAS Integration B2B Communication](#)

- [Task 3: Configure mod_oc4j for the Oracle HTTP Server and OracleAS Integration B2B](#)
- [Task 4: Configure mod_proxy for the Oracle HTTP Server and OracleAS Integration B2B](#)

Note: These instructions describe how to use the `getOPMNPort` command to obtain IP address and port number information on hosts both inside and outside your corporate network. Ensure that the ports on both sides of your corporate network have been opened. Otherwise, configuration fails.

Task 1: Install the Oracle HTTP Server Outside the Corporate Network

1. Install the Oracle HTTP Server on a host outside the corporate network.

The Oracle HTTP Server is installed with the J2EE and Web Cache middle tier installation type.

See Also:

- *Oracle Application Server Installation Guide* for your operating system
- *Oracle HTTP Server Administrator's Guide*

Task 2: Configure OPMN for Oracle HTTP Server and OracleAS Integration B2B Communication

Oracle Process Manager and Notification (OPMN) controls and monitors Oracle Application Server components and instances. This section describes how to configure OPMN for Oracle HTTP Server and OracleAS Integration B2B communication.

Note: Do not manually edit OPMN configuration files. Instead, use the `dcmctl` command line tool described in this section to update these files.

1. Go to the host inside your corporate network on which OracleAS Integration B2B is installed.
2. Go to the `ORACLE_HOME/dcm/bin` directory. This is the Oracle home directory in which OracleAS Integration B2B is installed.
3. Enter the following command to obtain Internet Protocol (IP) address and port number information for the OracleAS Integration B2B host:

```
dcmctl getOPMNPort
```

Output similar to the following appears:

```
144.52.146.244:6201
```

Ensure that you remember the output from this command. In Step 6 of these procedures, you update the host outside your corporate network with this information.

4. Go to the host outside your corporate network on which the Oracle HTTP Server is installed.

5. Go to the `ORACLE_HOME/dcm/bin` directory.

6. Enter the following commands:

```
dcmctl addOPMNLINK output
dcmctl updateConfig
```

where `output` is the information that displayed when you entered the command in Step 3 (for example, `144.52.146.244:6201`).

7. Enter the following command to obtain IP address and port number information for the Oracle HTTP Server host:

```
dcmctl getOPMNPORt
```

Ensure that you remember the output from this command. In Step 10 of these procedures, you update the host inside your corporate network with this information.

8. Return to the host inside your corporate network on which OracleAS Integration B2B is installed.

9. Go to the `ORACLE_HOME/dcm/bin` directory. This is the Oracle home directory in which OracleAS Integration B2B is installed.

10. Enter the following commands:

```
dcmctl addOPMNLINK output
dcmctl updateConfig
```

where `output` is the information that displayed when you entered the command in Step 7.

Task 3: Configure `mod_oc4j` for the Oracle HTTP Server and OracleAS Integration B2B

`mod_oc4j` is an Oracle HTTP Server module that manages the communication between the Oracle HTTP Server and Oracle Application Server Containers for J2EE (OC4J). You must configure `mod_oc4j` on the Oracle HTTP Server to perform the following tasks:

- Identify the message request on which to act
 - Determine the OC4J instance to route the message request
 - Communicate with the OC4J process
1. Go to the host inside your corporate network on which OracleAS Integration B2B is installed.
 2. Go to the `ORACLE_HOME/dcm/bin` directory. This is the Oracle home directory in which OracleAS Integration B2B is installed.
 3. Enter the following command:

```
dcmctl whichInstance
```

Output similar to the following appears:

```
midtier.qa-pc.us.oracle.com
```

Ensure that you remember the output from this command. In Step 6 of these procedures, you update the host outside your corporate network with this information.

4. Go to the host outside your corporate network on which the Oracle HTTP Server is installed.
5. Go to the `ORACLE_HOME/Apache/Apache/conf` directory.
6. Add the following lines to the `mod_oc4j.conf` file:

```
Oc4jMount /b2b instance://B2BInstance:OC4J_B2B
Oc4jMount /b2b/* instance://B2BInstance:OC4J_B2B
```

where `B2BInstance` is the output from the `whichInstance` command in Step 3 (for example, `midtier.qa-pc.us.oracle.com`). For example:

```
Oc4jMount /b2b instance://midtier.qa-pc.us.oracle.com:OC4J_B2B
Oc4jMount /b2b/* instance://midtier.qa-pc.us.oracle.com:OC4J_B2B
```

7. Save your updates.
8. Go to the `ORACLE_HOME/dcm/bin` directory.
9. Enter the following commands:

```
dcmctl updateConfig
dcmctl restart
```

10. Test the `mod_oc4j` configuration by accessing the user interface tool on the OracleAS Integration B2B host inside your corporate network:

```
http://HTTP_host/b2b
```

where `HTTP_host` is the hostname of the Oracle HTTP Server outside your corporate network. The OracleAS Integration B2B user interface tool login page should appear.

Task 4: Configure `mod_proxy` for the Oracle HTTP Server and OracleAS Integration B2B

`mod_proxy` is an Oracle HTTP Server module that enables you to configure the Oracle HTTP Server as a proxy server.

1. Go to the host outside your corporate network on which the Oracle HTTP Server is installed.
2. Open the `ORACLE_HOME/Apache/Apache/conf/httpd.conf` file.
3. Remove the `#` in front of the following lines:

```
<IfModule mod_proxy.c>
  ProxyRequests On
  Listen 4545

  <Directory proxy:*>
    Order deny,allow
    Deny from all
    Allow from .your_domain.com
  </Directory>
</IfModule>
```

4. Change 4545 to the proxy port number you want to use.
5. Change `Allow from .your_domain.com` to specify the host or domain inside your corporate network to permit to send messages to remote trading partners outside your corporate network. These messages pass through the Oracle HTTP Server outside your corporate network before going to remote trading partners.

For example, if an OracleAS Integration B2B host named `db_sales` must communicate with remote trading partners outside your corporate network, specify the following:

```
Allow from db_sales.us.oracle.com
```

If you have multiple OracleAS Integration B2B hosts in a domain named `us.oracle.com` that must communicate with remote trading partners outside your corporate network, specify the following:

```
Allow from .us.oracle.com
```

6. Save your updates.
7. Go to the `ORACLE_HOME/opmn/bin` directory.
8. Restart the Oracle HTTP Server outside your corporate network:

```
opmnctl stopproc ias-component=HTTP_Server
opmnctl startproc ias-component=HTTP_Server
```

9. Go to the host inside your corporate network on which OracleAS Integration B2B and Oracle HTTP Server are installed.
10. Open the `ORACLE_HOME/ip/config/tip.properties` file.
11. Provide values for the proxy hostname and the proxy port:

```
oracle.tip.adapter.b2b.ProxyHost=ProxyHost
oracle.tip.adapter.b2b.ProxyPort=ProxyPort
```

where *ProxyHost* is the name of the host on which the Oracle HTTP Server outside your corporate network is running and *ProxyPort* is the port number configured with the `Listen` parameter specified in Step 4 on page 3-14.

Note: You can also edit these parameters from the Server Properties page of Oracle Enterprise Manager 10g Application Server Control Console. See *Oracle Application Server Integration B2B User's Guide* for instructions on accessing and editing the Server Properties page.

12. Go to the `ORACLE_HOME/opmn/bin` directory.
13. Restart the Oracle HTTP Server inside your corporate network:

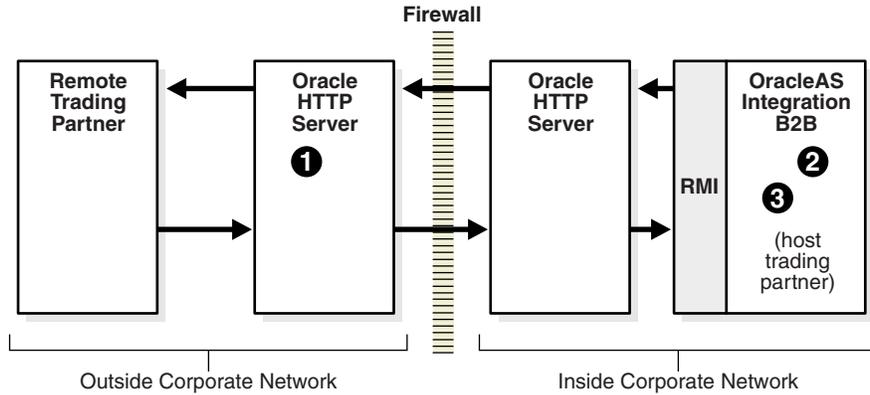
```
opmnctl stopproc ias-component=HTTP_Server
opmnctl startproc ias-component=HTTP_Server
```

Note: You must specify the host name and endpoint address of the Oracle HTTP Server outside your corporate network on the Create Trading Partner : Transport page of the OracleAS Integration B2B user interface tool. See [Table 3-1](#) on page 3-18 for more details.

Configuring SSL for the Oracle HTTP Server and OracleAS Integration B2B Instances

You can also add secure socket layer (SSL) support to your OracleAS Integration B2B trading partner environment. [Figure 3-3](#) shows the tasks to perform to configure SSL support.

Figure 3-3 Oracle HTTP Server Configuration Tasks



- ❶ Configure SSL for the Oracle HTTP Server
- ❷ Configure SSL for OracleAS Integration B2B
- ❸ Configure a wallet for OracleAS Integration B2B

The tasks shown in [Figure 3-3](#) are described in the following sections:

- [Task 1: Configure SSL for the Oracle HTTP Server](#)
- [Task 2: Configure SSL for OracleAS Integration B2B](#)
- [Task 3: Configure a Wallet for OracleAS Integration B2B](#)

Task 1: Configure SSL for the Oracle HTTP Server

You can configure SSL support for remote trading partner communication with the Oracle HTTP Server through either of the following components:

- Oracle Enterprise Manager 10g Application Server Control Console. See the *Oracle Application Server Administrator's Guide* for additional details.
- Oracle Process Manager and Notification Server (OPMN). Follow these procedures:

1. Go to the host outside your corporate network on which the Oracle HTTP Server is installed.
2. Open the `ORACLE_HOME/opmn/conf/opmn.xml` file.
3. Go to the following section:

```
<ias-component id="HTTP_Server">
...
  <data id="start-mode" value="ssl-disabled"/>
...
</ias-component>
```

4. Change `ssl-disabled` to `ssl-enabled`.

5. Save your updates.
6. Go to the `ORACLE_HOME/dcm/bin` directory.
7. Enter the following commands:

```
dcmctl updateConfig  
dcmctl restart
```

8. Go to the `ORACLE_HOME/opmn/bin` directory.
9. Enter the following commands:

```
opmnctl stopall  
opmnctl startall
```

10. Test the SSL configuration by accessing the OracleAS Integration B2B user interface tool inside the corporate network.

```
https://HTTP_host/443/
```

where `HTTP_host` is the hostname of the Oracle HTTP Server outside your corporate network and 443 is the default SSL port.

Note: You must also obtain and use an SSL certificate. Obtain a certificate from a certificate authority. Not performing this task means that you are not using a real certificate.

Task 2: Configure SSL for OracleAS Integration B2B

You must also enable SSL support in the OracleAS Integration B2B user interface tool for both host and remote trading partners. OracleAS Integration B2B includes a Create Trading Partner wizard that enables you to perform these tasks (known as communication capabilities in the user interface tool). [Table 3-1](#) provides an overview of these tasks and provides references to sections of the *Oracle Application Server Integration B2B User's Guide* that describe how to perform these tasks.

Table 3–1 SSL Tasks in OracleAS Integration B2B User Interface Tool

Part	Task	Chapter in User Guide	Section in Chapter
1	Assign SSL for transport security with the Create Trading Partner wizard for both the host and remote trading partners:		
	<ul style="list-style-type: none"> ■ Select Yes from the Transport Security Enabled list of the Create Trading Partner : Delivery Channel page. ■ Select HTTP 1.0 (Secure) or HTTP 1.1 (Secure) from the Transport Protocol list of the Create Trading Partner : Transport page. ■ For the host trading partner, enter the name of the Oracle HTTP Server host outside your corporate network in the Host Name field. Note: Do not specify the name of the OracleAS Integration B2B host inside your corporate network. ■ For the remote trading partner, enter the name of the remote trading partner host in the Host Name field. ■ For the host trading partner, create or use an existing endpoint address located on the Oracle HTTP Server outside your corporate network in the URI field. Note: Do not specify an endpoint on the OracleAS Integration B2B host inside your corporate network. ■ For the remote trading partner, create or use an existing endpoint address located on the remote trading partner host in the URI field. 	Chapter 7, "Creating Trading Partners"	"Page 4: Delivery Channel Page"
2	Perform these host trading partner tasks:		
	<ul style="list-style-type: none"> ■ Create a wallet password for the host trading partner ■ Update the Wallet Location parameter in either of two ways: On the Server Properties page of Oracle Enterprise Manager 10g Application Server Control Console With the <code>oracle.tip.adapter.b2b.WalletLocation</code> parameter in the <code>ORACLE_HOME/ip/config/tip.properties</code> file 	Chapter 8, "Managing Trading Partners" Chapter 13, "System Management with Oracle Enterprise Manager 10g"	"Managing the Host Trading Partner Wallet Password" "Oracle Application Server Integration B2B Middle-Tier Instance Server Properties"
3	Create a remote trading partner certificate in either of two ways:		
	<ul style="list-style-type: none"> ■ With the Create Trading Partner Wizard ■ Without the Create Trading Partner Wizard 	Chapter 7, "Creating Trading Partners" Chapter 8, "Managing Trading Partners"	"Page 5: Document Exchange Page" "Managing Remote Trading Partner Certificates"

Task 3: Configure a Wallet for OracleAS Integration B2B

You must configure the wallet for the host trading partner.

1. Start Oracle Wallet Manager on the OracleAS Integration B2B inside your corporate network:

On...	Then...
Solaris, Linux, or HP-UX	Enter the following command: <code>owm</code>
Windows	Select Start > Programs > Oracle - Home_Name > Integrated Management Tools > Wallet Manager

2. Click **Wallet > Open**.
 3. Go to `ORACLE_HOME/Apache/Apache/conf/ssl.wlt/default`.
 4. Click **OK**.
 5. Enter the password to open the wallet. This is the same wallet password that you specified in the OracleAS Integration B2B user interface tool. (See [Table 3-1](#) on page 3-18.)
 6. Click **Operations > Export Certificate Request**.
 7. Export the file to a certificate.
 8. Open the `ORACLE_HOME/ip/config/tip.properties` file.
 9. Set the following parameter using these operating system conventions:
 - For Windows environments (note the double slashes):


```
oracle.tip.adapter.b2b.WalletLocation = file:C:\\Documents and Settings\\jk\\ORACLE\\WALLETS\\ora_wallet.txt
```
 - For UNIX environments:


```
oracle.tip.adapter.b2b.WalletLocation = file:/ade/jknair_b2bdev/oracle/work/genwallt/client/ora_wallet.txt
```
- See Also:** *Oracle Application Server Integration B2B User's Guide* for instructions on using the Oracle Enterprise Manager 10g Application Server Control Console as an alternative method for specifying the wallet location parameter value described in Step 9

Postinstallation Verification Tasks

Verify that you can access the OracleAS Integration B2B user interface tool, Oracle Enterprise Manager 10g Application Server Control Console, and transport servlet from the host on which OracleAS Integration B2B is installed. [Table 3-2](#) provides access instructions.

Table 3-2 Accessing OracleAS Integration B2B Components

To Access The...	Enter This URL...	Enter This User Name...	Enter This Password...
OracleAS Integration B2B user interface tool	<p><code>http://hostname:port/b2b</code></p> <p><i>port</i> is the port number OracleAS Integration B2B uses. The following sources identify the OracleAS Integration B2B port number to use:</p> <ul style="list-style-type: none"> ▪ The <code>ipsetupinfo.txt</code> file located in the <code>install</code> subdirectory of your Oracle home directory ▪ The End of Installation screen that displayed at the end of installation 	admin	<code>ias_admin</code>
Oracle Enterprise Manager 10g Application Server Control Console	<p><code>http://hostname:port</code></p> <p><i>port</i> is the port number OracleAS Integration B2B uses. The following sources identify the Oracle Enterprise Manager 10g Application Server Control Console port number to use:</p> <ul style="list-style-type: none"> ▪ The <code>ipsetupinfo.txt</code> file located in the <code>install</code> subdirectory of your Oracle home directory ▪ The End of Installation screen that displayed at the end of installation 	<code>ias_admin</code>	<code>ias_admin</code>
Transport servlet	<p><code>http://hostname:port/b2b/transportServlet</code></p> <p>This page lists the remote method invocation (RMI) ports associated with the transport servlet.</p> <p>Note: This RMI information is defined in the <code>J2EE_HOME/OC4J_B2B/applications/b2b/ip/WEB-INF/web.xml</code> file and automatically matches with the RMI port and RMI instance name settings in the Server Properties page of Oracle Enterprise Manager 10g Application Server Control Console after installation. If you change this information in one place, you must also change it to the same values in the other place.</p> <p>See Also: "Troubleshooting Transport Exception Errors Caused by Port Mismatches" on page 3-24</p>	N/A	N/A

See Also: *Oracle Application Server Integration B2B User's Guide* for additional details about the OracleAS Integration B2B user interface tool, the Oracle Enterprise Manager 10g Application Server Control Console, and the transport servlet

OracleAS Integration B2B - Document Editor Installation

Note: Perform the following installation procedures if you have purchased the license for using the OracleAS Integration B2B - EDI option. This tool enables you to create and customize electronic data interchange (EDI) X12 and EDI EDIFACT business documents that you import into the OracleAS Integration B2B user interface tool.

The OracleAS Integration B2B - Document Editor is included in the `SpecBuilder.zip` file at the root of the OracleAS Integration CD-ROM in your Oracle Application Server kit. This tool enables you to create integrations between OracleAS Integration B2B trading partners that use EDI X12 and EDI EDIFACT.

Follow these instructions to install the OracleAS Integration B2B - Document Editor:

1. Unzip `SpecBuilder.zip`.
2. Run `setup.exe` to install the OracleAS Integration B2B - Document Editor.

Installing Multiple OracleAS Integration B2B Versions on a Single Host

You can install and run multiple OracleAS Integration B2B versions on the same host, as long as they are installed in different Oracle homes. For these additional OracleAS Integration B2B versions to function correctly, you must edit their port number and instance settings in the following configuration files after installation:

- `web.xml` (edit from the command prompt)
 - `tip.properties` (edit from the Server Properties page of the Oracle Enterprise Manager 10g Application Server Control Console)
 - `opmn.xml` (edit from the Process Management page of the Oracle Enterprise Manager 10g Application Server Control Console). This file only requires editing if you install the second OracleAS Integration B2B version while the first OracleAS Integration B2B version is not running.
1. Install J2EE and Web Cache and OracleAS Integration B2B into the same Oracle home for the first time on the host.
 2. Install a second J2EE and Web Cache and OracleAS Integration B2B into a different Oracle home directory on the same host.
 3. Open the `web.xml` file for the transport server of the Oracle HTTP Server. On Windows, for example, this file is located in the `J2EE_HOME\OC4J_B2B\applications\b2b\ip\WEB-INF` directory.

4. Change the RMI port number and RMI instance name:

```

<servlet>
  <servlet-name>
    transportServlet
  </servlet-name>
  <servlet-class>
    oracle.tip.transport.basic.TransportServlet
  </servlet-class>
  <init-param>
    <param-name>rmiHost</param-name>
    <param-value>localhost</param-value>
  </init-param>
  <init-param>
    <param-name>rmiPort</param-name>
    <param-value>1111</param-value>
  </init-param>
  <init-param>
    <param-name>instanceName</param-name>
    <param-value>IP1</param-value>
  </init-param>
  ....
  ....
</servlet>

```

5. Save your changes and close the file.

6. Go to the following URL to access the Oracle Enterprise Manager 10g Application Server Control Console for the second OracleAS Integration B2B installation:

`http://hostname:port/`

where:

- *hostname* is the name of the host on which the second OracleAS Integration B2B middle-tier instance is installed
 - *port* is the number assigned during the second OracleAS Integration B2B installation. The following sources also identify the port number used to access the Oracle Enterprise Manager 10g Application Server Control Console:
 - The `ipsetupinfo.txt` file in the `install` subdirectory of the second Oracle home directory
 - The End of Installation page that displayed during the second installation
7. Enter the following details to access the Oracle Enterprise Manager 10g Application Server Control Console of the second OracleAS Integration B2B installation:

Field	Value
Username	<code>ias_admin</code>
Password	<i>password</i> This is the password you specified during the second J2EE and Web Cache installation and OracleAS Integration B2B installation for the <code>ias_admin</code> user.

The Oracle Application Server home page appears.

8. Click **B2B** in the **Name** column of the **System Components** table.

9. Click **Administration**.

10. Click **Server Properties**.

The Server Properties page appears.

11. Change the following parameter values to match those set in the `web.xml` file in Step 4.

Parameter	Description	Example
Remote Method Invocation (RMI) Port	Enter a port number not currently in use.	1111
RMI Instance Name	Enter an instance name that is different from the first OracleAS Integration B2B installation.	IP1

12. Click **OK**.

13. If you installed the second OracleAS Integration B2B while the first OracleAS Integration B2B was not running, you must edit the `opmn.xml` file by performing Steps 13a through 13d. Otherwise, go to Step 14.

a. Return to the Oracle Application Server home page in the Oracle Enterprise Manager 10g Application Server Control Console.

b. Click **Process Management**.

The `opmn.xml` file appears.

c. Change the DMS port value to a free port number.

```
<port id="dms" range="8777"/>
```

d. Click **Apply**.

14. Return to the Oracle Application Server home page in the Oracle Enterprise Manager 10g Application Server Control Console.

15. Click **B2B**.

16. Click **Stop All** in the **General** section to stop OracleAS Integration B2B.

17. Click **Restart All** to restart OracleAS Integration B2B.

18. Exit the Oracle Enterprise Manager 10g Application Server Control Console.

19. Verify your changes by connecting to the transport servlet of Oracle HTTP Server:

```
http://hostname:port/b2b/transportServlet
```

If you are able to connect, your changes for the second OracleAS Integration B2B installation were successful.

20. Repeat these steps for any additional OracleAS Integration B2B installations on the same host.

Troubleshooting Installation or Configuration Problems

This section describes how to troubleshoot OracleAS Integration B2B installation problems.

- [Troubleshooting OracleAS Integration B2B Schema Password Failure During Installation](#)
- [Troubleshooting Transport Exception Errors Caused by Port Mismatches](#)
- [Troubleshooting Integration B2B Configuration Assistant Failure](#)

Troubleshooting OracleAS Integration B2B Schema Password Failure During Installation

If you do not select the Identity Management Access option during OracleAS Integration B2B installation, the following error can occur when specifying the OracleAS Integration B2B schema password on the Specify Metadata Repository for Integration B2B screen:

An error occurred while validating the password of the Integration B2B schema. Either the schema does not exist in the database or an invalid password has been specified

This error occurs because the schema password must first be unlocked and changed.

See Also: ["Step 2: Unlock or Obtain the OracleAS Integration B2B Schema User Password"](#) on page 3-2 for instructions on unlocking and changing the B2B schema password

Troubleshooting Transport Exception Errors Caused by Port Mismatches

You can receive a transport exception error during OracleAS Integration B2B runtime stating that the RMI server was not found. This error occurs because the RMI port setting in the `ORACLE_HOME/ip/config/tip.properties` file does not match the RMI port setting in the `ORACLE_HOME/OC4J_B2B/applications/b2b/ip/WEB-INF/web.xml` file for the transport servlet of the Oracle HTTP Server (for example, both set as 1110).

This port setting mismatch can occur during installation. To prevent this error, ensure that both port settings are the same.

For example, assume the RMI port setting in the `web.xml` file is 1110 and the RMI port setting in the `tip.properties` file is 1111 on the host of a buyer engaging in a business transaction using RosettaNet. If a RosettaNet partner interface process (PIP) 3A4 purchase order request message is sent from the buyer to a seller, the responding purchase order acknowledgment message sent from the seller to the buyer fails and a transport exception error appears stating that the RMI server was not found. If the RMI port in the `tip.properties` file is updated to 1110 on the host of the buyer, the responding purchase order acknowledgment message is successfully received by the buyer with no transport exception error.

If you must make this update, Oracle recommends that you do not manually edit the `tip.properties` file with a text editor. Instead, edit the RMI port setting from the Server Properties page of Oracle Enterprise Manager 10g Application Server Control Console.

See Also: Chapter 13, "System Management with Oracle Enterprise Manager 10g" for instructions on editing the RMI port setting in the Server Properties page of Oracle Enterprise Manager 10g Application Server Control Console

Troubleshooting Integration B2B Configuration Assistant Failure

If the Integration B2B Configuration Assistant described in Step 2 on page 3-9 fails during installation, perform the following procedures to run this assistant manually.

1. See the latest `installActionsYEAR_MM_DD_TIME.log` file located in the `oraInventory_location/logs` directory for UNIX or the `Program Files\Oracle\Inventory\logs` directory for Windows.
2. Check for OracleAS Integration B2B error codes (AIP-52000 to AIP-52999) in the log file.

AIP - 52000 Updating Repository information has failed.

Cause : ORACLE_HOME/config/iasschema.xml may have Integration B2B specific entries. Make sure that iAS 10.1.2 middle tier is installed properly.

AIP - 52001 Integration B2B Seed creation has failed

Cause : The following could be the reason

- 1.Oracle Application Server Metadata Repository may not contain Integration B2B schema.
- 2.Invalid Integration B2B schema password is passed to Configuration Tool.
- 3.Integration B2B metadata is not in a stable state. Recreate Oracle Application Server Metadata Repository

AIP - 52003 Integration B2B Instance seed creation failed

Cause : The following could be the reason

- 1.iAS instance name is already seeded in the metadata repository.
- 2.Oracle Application Server Metadata Repository may not contain Integration B2B schema.
- 3.Invalid Integration B2B schema password is passed to Configuration Tool.
- 4.Integration B2B metadata is not in a stable state. Recreate Oracle Application Server Metadata Repository

AIP - 52004 Updating targets.xml has failed

Cause : targets.xml is corrupt in the ORACLEHOME/sysman/emd directory

3. Correct the problem and manually rerun the Integration B2B Configuration Assistant and all other configuration assistants that failed.
4. Set up the environment by running the following script in the `ORACLE_HOME/ip/install` directory:

On...	Run This Script...
Solaris, Linux, or HP-UX	<ul style="list-style-type: none"> ■ If using the Bourne, Korn, and similar shells: <code>./setenv.sh</code> ■ If using the C and similar shells: <code>source setenv.csh</code>
Windows	<code>setenv.bat</code>

This sets the necessary CLASSPATH environment for the Integration B2B Configuration Assistant.

5. Run the Integration B2B Configuration Assistant from the command prompt:

```
java oracle.tip.install.ConfigTool oracle_home organization_name ip_passwd
wf_passwd dbhost dbport dbservicename ias_instancename iasadmin_passwd
globalDBName oidUserName oidPassword true
```

Some parameters specified are only valid under a specific configuration. In cases where they are not valid (that is, the question was not asked or an answer was not provided during installation), enter NULL as the argument.

For...	Specify This Value...
<i>oracle_home</i>	The Oracle home directory path
<i>organization_name</i>	NULL
<i>b2b_passwd</i>	The OracleAS Integration B2B schema password ¹
<i>dbhost</i>	The Oracle Application Server Metadata Repository hostname ¹
<i>dbport</i>	The Oracle Application Server Metadata Repository port number ¹
<i>dbservicename</i>	The Oracle Application Server Metadata Repository database service name ¹
<i>ias_instancename</i>	The Oracle Application Server middle-tier instance name The instance name is found in <i>ORACLE_HOME/config/ias.properties</i> under the <i>IASNAME</i> entry.
<i>iasadmin_passwd</i>	The Oracle Application Server middle-tier instance administrator (<i>ias_admin</i>) password
<i>globalDBName</i>	The global database name for the Oracle Application Server Metadata Repository registered in Oracle Internet Directory (for example, <i>iasdb.us.oracle.com</i>)
<i>oidUserName</i>	The Oracle Internet Directory user name
<i>oidPassword</i>	The Oracle Internet Directory password
<i>true</i>	This parameter is required for a successful installation.

¹ If you selected to configure Identity Management Access at Step 10 on page 3-6, specify NULL. NULL is case insensitive.

6. See the *ORACLE_HOME/cfgtoollogs* directory for the log files that describe how to run the other failed configuration assistants.

Directory Structure

OracleAS Integration B2B is installed into a subdirectory of your Oracle home directory named `ip`. Table 3–3 shows the subdirectories created in the OracleAS Integration B2B home directory:

Table 3–3 Subdirectory Structure of `ip` Root Directory

subdirectory	Description
<code>install</code>	Installation scripts for setting up the OracleAS Integration B2B environment
<code>lib</code>	Class libraries directory
<code>log</code>	Default log directory
<code>oem</code>	Oracle Enterprise Manager files
<code>config</code>	Configuration files
<code>doc</code>	This installation guide in hypertext markup language (HTML) format and portable document format (PDF).
<code>tutorial</code>	Files to use with the EDI X12, EDI EDIFACT, and RosettaNet tutorials described in the <i>Oracle Application Server Integration B2B User's Guide</i>
<code>utils</code>	OracleAS Integration B2B utilities and SQL scripts.

Deinstallation Tasks

Note: If you want to deinstall and reinstall OracleAS Integration B2B in the *same* Oracle home, ensure that you first remove files and subdirectories under `ORACLE_HOME/ip` before performing the OracleAS Integration B2B reinstallation. The only directory that does not need to be removed is the `log` directory. Other than this directory, the `ORACLE_HOME/ip` directory must be empty for reinstallations into the same Oracle home.

Follow these instructions to deinstall OracleAS Integration B2B 10.1.2:

1. Start Oracle Universal Installer.
2. Click **Deinstall Products**.
3. Expand the Oracle home that contains the products to deinstall.
4. Select **OracleAS Integration B2B**.
5. Click **Yes** when prompted.

Silent and Noninteractive Installation

The `oracle.tip.intg.Typical.rsp` response file for silent and noninteractive installations is available in the `stage/Response` directory on Disk 1 of the OracleAS Integration CD-ROM. This file lists and describes each available variable. Three additional installation file templates are also provided. The file template to use is based on the configuration of the Oracle Application Server middle tier and the installation option you want to select for Step 10 of "[Beginning the Installation](#)" on page 3-6.

Table 3-4 Response Files

Response File	Use This File If...
<code>b2b_with_im.rsp</code>	<p>You selected Identity Management Access during J2EE and Web Cache installation.</p> <p>This file lets you specify the login credentials for the Oracle Internet Directory with which you registered the Oracle Application Server middle tier during J2EE and Web Cache installation.</p>
<code>b2b_mr_with_oid.rsp</code>	<p>You did not select Identity Management Access during J2EE and Web Cache installation, but want to select Identity Management Access during OracleAS Integration B2B installation.</p> <p>This file lets you register the Oracle Application Server middle tier with Oracle Internet Directory and specify the login credentials for Oracle Internet Directory.</p>
<code>b2b_with_mr.rsp</code>	<p>You want to select only Oracle Application Server Metadata Repository during OracleAS Integration B2B installation and did not select Identity Management Access during J2EE and Web Cache installation.</p>

See Also: *Oracle Application Server Installation Guide* for your operating system for complete instructions on using response files

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