

Oracle® Configuration Controls Governor
Integra Apps Installation Guide
Release 5.1.2

August 2008

Oracle Configuration Controls Governor: Integra Apps Installation Guide

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Introduction

Integra Apps monitors setup data in business-management applications. It can take “snapshots” that document application setups; compare snapshots with one another, to show how application setups change; employ change tracking to monitor those changes; and migrate setup data from one application instance to another.

This document tells how to install version 5.1.2 of Integra Apps, or how to upgrade to version 5.1.2 from an earlier version. You can install version 5.1.2 directly, or upgrade to it directly from version 4.6 or later. In broad terms, you complete these steps:

- Ensure that several systems run required software. These include:
 - An installing computer, which serves as a staging environment from which the Integra installation program is run.
 - An Integra Home instance, which hosts the database used by Integra Apps.
 - ERP instances, which host business-management applications monitored by Integra Apps.
 - An Integra UI Server, on which Integra Apps is installed and from which it is run.
 - User workstations, from which users access the Integra UI Server.
- Download files to the installing computer.
- Prepare the Integra UI Server for installation.
- Complete an Integra Installer Worksheet, in which you compile information you will need to provide as you install Integra Apps.
- Run the Integra Installer from the installing computer, to place Integra Apps software on the Integra UI Server.
- Configure the Integra UI Server to run with any of three web application servers: Tomcat, Oracle Application Server, or WebLogic.
- Configure Integra Apps itself. (For this purpose, see the *Integra Apps Administration Guide* for version 5.1.2.)

Integra Apps is one component of Configuration Controls Governor, which is itself an application within the Oracle Governance, Risk, and Compliance Controls Suite. However, Integra Apps is installed independently of other GRC Controls Suite com-

ponents. For information on installing other components, see the *Governance, Risk, and Compliance Controls Suite Installation Guide* for version 7.2.3 or later and the *Application Access Controls Governor Installation Guide* for version 8.0.1 or later.

Before You Install

This section contains essential information you need to know before installing Integra Apps 5.1.2. For a successful installation, be sure to follow all recommendations in this section.

System Requirements

To install and use Integra Apps 5.1.2, ensure that your systems satisfy the following requirements. All requirements below are mandatory, unless otherwise stated. Do not attempt installation until all requirements have been met. Failure to meet these requirements will lead to errors and delays.

Installing Computer

The installing computer (the one on which the Integra Installer is run) must meet the following requirements:

- One of the following operating systems:
 - Microsoft Windows
 - UNIX/Linux with X Client
- SQL*Plus and IMP (Oracle Import utility):

Both must be part of the same Oracle client, and stored in the same directory. The Oracle client must satisfy this requirement:

If the Integra Home instance is...	Oracle Client on the Installing Computer must be...
Oracle 8i database	Oracle 8i (8.1.7.4 or higher)
Oracle 9i database	Oracle 8i (8.1.7.4 or higher) or 9i
Oracle 10g database	Oracle 10g

Both must have SQL*Net connectivity to the Integra Home instance (which requires an entry in the Oracle client's network/admin/tnsnames.ora file for the Integra Home instance).

UNIX/Linux users must have Read and Execute permissions for both.

- Java Runtime Environment J2SE 1.4.2_05 JRE or newer, downloadable from <http://java.sun.com/j2se/1.4.2/download.html>

- If you are installing onto a UNIX/Linux computer: scp capability to transfer files from the installing computer to the Integra Home instance is optional, but recommended. The Installer gives you the option of installing the files manually, but we recommend letting the Installer do it for you.

We recommend that you test the scp capability by using an scp client to transfer a file (of your choice) from the installing computer to the server that hosts the Integra Home instance. Any errors generated by the scp client must be resolved before using the Integra Installer. Work with your system administrator to find resolutions before continuing.

- The file `classes12.jar` or `classes12.zip`, delivered in Oracle's database installation, downloadable from <http://www.oracle.com/technology/software/index.html>

Download links in this document may not work if you simply click on them. However, each has been tested to work if you copy the URL into the address field of your web browser, and then press the Enter key.

- JasperReports

An open source reporting engine. Download and licensing details can be obtained at

<http://sourceforge.net/projects/jasperreports>

Download the file from

http://downloads.sourceforge.net/jasperreports/jasperreports-1.2.8.jar?modtime=1163544934&big_mirror=0

- Eclipse BIRT

An open-source reporting engine maintained by the Eclipse Foundation. Download and licensing information can be obtained at

<http://www.eclipse.org/birt>

Download from

http://www.eclipse.org/downloads/download.php?file=/birt/downloads/drops/R-R1-2_0_1-200602221204/birt-runtime-2_0_1.zip&url=http://mirror.cc.columbia.edu/pub/software/eclipse/birt/downloads/drops/R-R1-2_0_1-200602221204/birt-runtime-2_0_1.zip&mirror_id=454

- iText

A library that allows you to generate PDF files on the fly. Download and licensing information can be obtained at

<http://www.lowagie.com/iText/>

Download from

http://downloads.sourceforge.net/itext/itext-1.3.jar?modtime=1112806930&big_mirror=0

- Commons-Digester

Lets you configure an XML -> Java object mapping module, which triggers certain actions called rules whenever a particular pattern of nested XML elements is recognized. A rich set of predefined rules is available for your use, or you can also create your own. Download and licensing information can be obtained at

<http://docs.sun.com/source/816-6402-10/api.htm/>

Download from

<http://archive.apache.org/dist/commons/digester/binaries/commons-digester-1.7.zip>

- Hibernate

An object/relational persistence and query service. Download and licensing information can be obtained at

<http://www.hibernate.org>

Download from

http://downloads.sourceforge.net/hibernate/hibernate-3.0.5.zip?modtime=1117034763&big_mirror=1

- JCommon

A collection of useful classes used by JFreeChart. Download and licensing information can be obtained at

<http://www.jfree.org/jcommon/index.php>

Download from

http://sourceforge.net/project/downloading.php?groupname=jfreechart&filename=jcommon-0.9.5.zip&use_mirror=superb-east

- JFreeChart

A free (LGPL) chart library for the Javaplatform. Download and licensing information can be obtained at

<http://sourceforge.net/projects/jfreechart/>

Download from

http://sourceforge.net/project/downloading.php?group_id=15494&use_mirror=superb-east&filename=jfreechart-0.9.20.zip&63591003

Integra Home Instance

The Integra Home instance can be a new or existing database instance. It can contain non-Integra schemas, but we recommend choosing an instance that does not contain ERP schemas.

Platform

Any platform that supports the required database (specified below), including Oracle Real Application Clusters (RAC).

Software

- Database. One of the following:
 - Oracle 8i database Enterprise Edition version 8.1.7.4 or higher, with Partitioning option enabled
 - Oracle 9i database Enterprise Edition versions 9.2.0.3, 9.2.0.5, 9.2.0.6 or 9.2.0.7, with Partitioning option enabled
9.2.0.4 users: If your ERP instance uses version 9.2.0.4, so must your Integra Home instance.
 - Oracle 10g database Enterprise Edition Release 1 or 2, with Partitioning option enabled
- SQL*Plus
- Oracle IMP database utility
- SQL*Net connectivity to each instance managed or used by Integra
- Verify that the following script has been run as SYS to initiate the java virtual machine (Oracle supplies this script):
`$ORACLE_HOME/javavm/install/initjvm.sql`
- Verify that the following script has been run as SYS to load the TCPConnection java class:
 - Oracle 8i: `$ORACLE_HOME/rdbms/admin/initpls.j.sql`
 - Oracle 9i: `$ORACLE_HOME/rdbms/admin/utlsmt.p.sql`
 - Oracle 10g: Not needed; skip this step.

Database

Once you choose the Integra Home instance, complete the following requirements.

- Character set: Verify that your Integra Home instance uses either the American_America.WE8ISO8859P1 character set, or a character set that is a superset of it (e.g., UTF8). The Integra Installer will use Oracle's import utility to import a .dmp file that was created using this character set.

The character set must also be compatible with the set used by the instance's operating system.

- Disk space: Verify that you have adequate disk space for these tablespaces:

Tablespace Name	Minimum Size
Integra tablespaces shared by all components	
AM_DATA*	2,000 MB
AM_INDEX*	2,000 MB
AM_STAGE*	100 MB
Integra tablespaces used only by Integra Apps	
APS_DATA*	2,000 MB
APS_INDEX*	1,400 MB

Table continues on next page.

Tablespace Name	Minimum Size
Standard database tables used by Integra; can be expected to expand well beyond their minimum sizes:	
RBS (rollback tablespace)	1,000 MB
TEMP (temporary tablespace)	2,000 MB

*The Integra Installer will create these tablespaces, and will create one datafile for each tablespace. If you require more than one datafile per tablespace, create the tablespaces and datafiles before running the Installer. We recommend using the names shown above; in any event, note the names you use, because the Installer will ask you for them.

- Database parameter file: Set the following values in INIT.ora:

Parameter	Value
db_block_size	8192
global_names	FALSE
java_pool_size	Oracle 8i/9i: 65000000 or greater Oracle 10g: Ignore this parameter
job_queue_processes	10
job_queue_interval	Oracle 8i: 15 Oracle9i/10g: Ignore this parameter
large_pool_size	Oracle 8i/9i: 9437184 or greater Oracle 10g: Ignore this parameter
open_cursors	500 or greater
open_links	10 If you change this value, you must restart the instance
optimizer_mode	Oracle 8i/9i: CHOOSE Oracle 10g: Ignore this parameter
remote_dependencies_mode	SIGNATURE
shared_pool_size	Oracle 8i: 31457280 or greater Oracle9i/10g: Ignore this parameter
undo_retention	10800
utl_file_dir	Any directory writable by Oracle

- SYS and SYSTEM passwords

ERP Instance

Each ERP instance that will be configured for use with Integra Apps must meet these requirements:

Platform

Any platform that supports the required database (specified below), including Oracle Real Application Clusters (RAC).

Software

- One of the following business application systems:
 - Oracle E-Business Suite version 10.7, 11.0.3 or 11i
 - PeopleSoft Enterprise version 8.8

- Database. One of the following:
 - Oracle 8i database Enterprise Edition version 8.1.7.4 or higher (Partitioning option not required)
 - Oracle 9i database Enterprise Edition versions 9.2.0.3, 9.2.0.5, 9.2.0.6 or 9.2.0.7 (Partitioning option not required)
 - 9.2.0.4 users: If your ERP instance uses version 9.2.0.4, so must your Integra Home instance, due to a limitation in the Oracle database software. Please contact your Integra consultant.
 - Oracle 10g database Enterprise Edition Releases 1 or 2 (Partitioning option not required)
- SQL*Plus
- Verify that the following script has been run as SYS to initiate the java virtual machine (Oracle supplies this script):


```
$ORACLE_HOME/javavm/install/initjvm.sql
```
- Verify that the following script has been run as SYS to load the TCPConnection java class:
 - Oracle 8i: \$ORACLE_HOME/rdbms/admin/initpls.j.sql
 - Oracle 9i: \$ORACLE_HOME/rdbms/admin/utlsmtp.sql
 - Oracle 10g: Not needed; skip this step.
- PeopleSoft Enterprise users: In the PeopleSoft Enterprise application server psappsrv.cfg file, set the parameter EnableDBMonitoring to 1.

Database

- Disk space: Verify that you have adequate disk space for these tablespaces, which are created when you configure Integra:

Tablespace Name	Minimum Size
Integra tablespaces shared by all components	
AM_AGENT_D	1,000 MB
AM_AGENT_X	1,000 MB
Integra tablespaces used only by Integra Apps	
APS_AGENT_D	500 MB
APS_AGENT_X	500 MB

- Apps Migration: If you intend to migrate setups between ERP instances that reside on different servers, the destination instance must have an entry in the TNSNAMES.ora file of the source instance's Oracle \$APPL_TOP Home.
 - UNIX only: If you intend to use the Apps Migration feature, and if your APPL_TOP and ERP database are on distinct physical servers, then the UNIX user that owns the ERP database must be able to use the scp and ssh commands to log into the middle tier. This is necessary so that a UNIX user can run

APPSORA.env to set the appropriate environment variables and run FNDLOAD on that environment. The latter user can, but need not, be your APPLMGR user.

- Your middle tier UNIX user must have full access to a directory that can be used for storing migration-related files. (The directory is referred to as *destination_directory* in the following step.)
- Run the following commands as the Oracle database UNIX user to test the execution of the scp and ssh commands:

```
scp filename middle_tier_user@server:destination_directory  
ssh middle_tier_user@server unix_command
```

In these commands:

filename is the name of any file on the database tier

middle_tier_user is the UNIX user on the middle tier to be used for migration

server is the middle tier server name

destination_directory is the directory on the middle tier that will hold migration files

unix-command is any UNIX command (full path may be required)

- Database parameter file (INIT.ora): Set the following values in INIT.ora:

Parameter	Value
remote_dependencies_mode	SIGNATURE
utl_file_dir	Any directory writable by Oracle
job_queue_processes	10
job_queue_interval	Oracle 8i: 15 Oracle 9i/10g: Ignore this parameter

- SYSTEM password for each ERP instance
- ERP user password for each ERP instance

Integra UI

The server for the Integra UI must meet the following requirements:

- One of the following web application servers:
 - Tomcat 5.x. This is the appropriate choice if there are no standards for application servers at your site.
 - Oracle Application Server 10g Release 1, 2 or 3. The minimum installation is Oracle Application Server J2EE and Web Cache; other 10g components may be installed, but are not needed by Integra.
 - WebLogic 8.1 SP3 or higher
- The server may reside on any computer, and may be used to serve other web applications besides Integra. You can use an existing server or create a new one.
- The server must be running on a unique port.
- Java Runtime Environment J2SE 1.4.2_05 JRE or higher.

- The font Arial Unicode MS (ARIALUNI.TTF), which is used by the Integra UI to generate reports and support non-Roman alphabets. This font can be purchased from Ascender Corporation at <http://ascendercorp.com>

User Workstations

User workstations must meet the following requirements:

- Windows computer with network connection
- Internet Explorer 5.5 or 6.0 with Javascript (a.k.a., “scripting”) enabled and popup windows allowed.

Integra Software Prerequisites

To install and use Integra Apps 5.1.2, you must satisfy the following prerequisites.

- If you are upgrading from a version of Integra Apps earlier than 4.6, you must upgrade to version 4.6 before upgrading from that version to 5.1.2.
- If you are upgrading from a version of Integra Apps earlier than 5.1.1.1, notify your Integra administrators that the following permission has been added to all security groups. Scope: Business Group. Value: All.
- There are several significant differences between Apps 5.1.2 and versions earlier than 5.1:

To simplify setup and reporting, Apps 5.1.2 allows only one Application in each Snapshot definition. Each Snapshot definition that had more than one Application has been broken into multiple definitions, one per Application.

Apps 5.1.2 has different roles than versions earlier than 5.1. Each user’s role has changed as follows:

Apps 5.1.2	Apps 4.x	Role Description
Apps User	Apps User	Create and edit snapshots, change tracking, and migration definitions
Snapshot scheduler	Apps User	Schedule Snapshot definitions for execution, and compare Snapshot occurrences.
Change Tracking Scheduler	Change Tracking Manager	Schedule change tracking definitions for execution.
Migration Scheduler	Migration User	Schedule migration definitions for execution.
Apps Developer	Template Builder	Create and edit templates
Apps Metadata Manager	Metabuilder User	Use MetaBuilder
	Apps Administrator	This 4.x role is not converted. (All administration is conducted by the administrator role.

Prepare the Integra UI Server

The Integra UI is served by a J2EE web application server. You may use any server listed under “Integra UI” in the Before You Install chapter (page 2-7). If you have already installed other version-5.x components, skip ahead to the “Integra Installer Worksheet” (page 4-1). If you are installing your first version 5.x component, complete the following steps.

The server may reside on any computer, and may be used to server web applications other than Integra. You can use an existing server or create a new one:

1. Prepare the server.

If you will use an existing server:

- Confirm that it satisfies all requirements listed under “Integra UI” in the Before You Install chapter (page 2-7).
- Oracle Application Servers only: You can use an existing OC4J instance or create a new one. If you will not use an existing OC4J instance, create one now.

If you will not use an existing server:

- Create one now, using the server manufacturer’s instructions
- The server must satisfy all requirements listed under “Integra UI” in the Before You Install chapter (page 2-7).
- Verify that the server is configured to run on a unique port.

2. Verify that the server is operating correctly.

Integra Installer Worksheet

You will use software provided by Oracle — the Integra Installer — to install Integra Apps. The installer will prompt you to provide information about the environments that Integra will use. The following worksheet enables you to gather this information for a more efficient installation. Record the information in the space provided.

While using the Integra Installer, use the values you record here. If you use different values, be sure to change the values recorded here. You will need this information for post-installation steps.

Will you perform a fresh installation or upgrade from an earlier version?

Installer Prompt	Record the value you will use:
<p>Upgrade existing data and settings Select the checkbox to upgrade from an earlier Integra Apps version. Clear the checkbox to perform a fresh installation</p>	
<p>Current version If you are performing a fresh installation, select 5.1.1.1. If you are upgrading existing data and settings, select the version from which you will upgrade.</p>	

The Integra Home Schema stores all data about your Integra users, security and deployments. It must be installed in an existing database. Specify that database:

Installer Prompt	Record the value you will use:
<p>Hostname Hostname of database that will contain the Integra Home Schema</p>	
<p>SID (service name) SID (aka 'service name') of database that will contain the Integra Home Schema</p>	
<p>TNS entry TNS entry on the installing computer (found in the copy of tnsnames.ora described under "Installing Computer" in the Before You Install chapter on page 2-1); usually but not always same as SID</p>	

Installer Prompt	Record the value you will use:
Port	
	Port number for accessing database that will contain the Integra Home Schema
SYSTEM password	
	Password of database's SYSTEM user
SYS password	
	Password of database's SYS user
Database version	
	Version of database that will contain the Integra Home Schema
Operating system	
	Operating system of database server that will contain the Integra Home Schema (the Ingegra Home computer, not the Installing computer)

Enter the following information about your email server:

Installer Prompt	Record the value you will use:
SMTP server domain	
	Domain name of the server your company uses for sending and receiving email.
Mail port	
	Port number used by the SMTP server to communicate with other applications.
Admin email	
	Email address for the admin user on the SMTP server.

Enter the following information about the Integra Home Schema:

Installer Prompt	Record the value you will use:
Home Schema name	
	Name of Integra Home Schema
Home Schema password	
	Password of Integra Home Schema
Home Schema already exists	
	Select this checkbox if Integra Home Schema is already installed in the database specified above

If the Integra Home Schema does not yet exist, enter the following information about your company or organization:

Installer Prompt	Record the value you will use:
Company name	
	Company or Organization name
Temporary tablespace	
	Name of temporary tablespace used by Integra Home Schema

Installer Prompt	Record the value you will use:
Create Integra Platform tablespaces (if they were not created already) Uncheck if Platform tablespaces required by Integra Home Schema have been created	

If “Create Integra Platform tablespaces” was checked above: This installer will create three tablespaces for the Integra Home Schema, and one datafile for each tablespace. Specify their details here:

Installer Prompt	Record the value you will use:
Data Tablespace name Name of Data Tablespace (you must use the default value)	AM_DATA
Data Tablespace size (MB) Size of Data Tablespace in megabytes	
Data File path and name Full path and name of Data Tablespace’s datafile	
Index Tablespace name Name of Index Tablespace (you must use the default value)	AM_INDEX
Index Tablespace size (MB) Size of Index Tablespace in megabytes	
Index File path and name Full path and name of Index Tablespace’s datafile	
Staging Tablespace name Name of Staging Tablespace (you must use the default value)	AM_STAGE
Staging Tablespace size (MB) Size of Staging Tablespace in megabytes	
Staging File path and name Full path and name of Staging Tablespace’s datafile	

If “Create Integra Platform tablespaces” was not checked above: The Integra Home Schema requires the following tablespaces.

Installer Prompt	Record the value you will use:
Data Tablespace name Name of the Data Tablespace (you must use the default value)	AM_DATA
Index Tablespace name Name of the Index Tablespace (you must use the default value)	AM_INDEX
Staging Tablespace name Name of the Staging Tablespace (you must use the default value)	AM_STAGE

Enter this information about the database containing the Integra Home Schema:

Installer Prompt	Record the value you will use:
ORACLE_HOME directory Full pathname of database's ORACLE_HOME directory (not the Oracle Client's directory)	
UTL_FILE_DIR directory Full pathname of database's UTL_FILE_DIR directory (must match the value found in the database)	

If the Integra Home database's operating system (specified above) is UNIX: The installer copies files to your database's UTL_FILE_DIR directory. Enter the following information or check the "Copy files manually" checkbox:

Installer Prompt	Record the value you will use:
Login user OS username of the database server	
Login password OS password of the database server	
Copy files manually Select this checkbox if you want to copy the files manually to the UTL_FILE_DIR directory	

If the Integra Home database operating system (specified above) is Windows: The installer copies files to your database's UTL_FILE_DIR directory. Enter the following information or check the 'Copy files manually' checkbox:

Installer Prompt	Record the value you will use:
UTL_FILE_DIR directory Mapped network drive and path of the database's UTL_FILE_DIR directory	
Copy files manually Select this checkbox if you want to copy the files manually	

The product you are installing uses a web server. The server does not need to be dedicated to Integra. Enter the following information:

Installer Prompt	Record the value you will use:
Install directory Directory on the Integra Home computer (not the Installing computer) where Integra's web assets will be installed. <ul style="list-style-type: none">• If you are upgrading from version 5.1, 5.1.1, or 5.1.1.1, or if you use earlier versions of other Integra components, you have already created a directory for your integra applications. Specify that directory.• If you are performing a fresh installation and use the Tomcat web application server, specify its webapps directory. If you use Oracle Application Server or WebLogic, specify the equivalent directory.	

Installer Prompt	Record the value you will use:
Web app name Name of the Integra web application (we recommend accepting the default value)	integra
Datasource name JNDI entry for the connection to the Integra Home Schema (we recommend accepting the default value)	jdbc/amhome

Enter the following information about the installing computer:

Installer Prompt	Record the value you will use:
Oracle bin directory Directory where Oracle executables (e.g., imp, sqlplus) have been installed on this computer (not the Integra UI Server or Integra Home computer)	
Database version Database version of Oracle executables	
OS bin directory Directory where common OS executables are stored (for example, cmd for Windows or chmod for UNIX)	

If you are installing Integra Apps for the first time: The Integra Home Schema requires tablespaces dedicated to Integra Apps.

Installer Prompt	Record the value you will use:
Create Integra Apps tablespaces Clear the check box if the tablespaces for the Integra Home Schema exist already.	

If "Create Integra Apps tablespaces" is checked above: This installer will create two tablespaces for Integra Apps, and one datafile for each tablespace. Specify details:

Installer Prompt	Record the value you will use:
Data Tablespace name Name of Data Tablespace (you must use the default value)	APS_DATA
Data Tablespace size (MB) Size of Data Tablespace in megabytes	
Data File pathname Full path and name of Data Tablespace's datafile	
Index Tablespace name Name of Index Tablespace (you must use the default value)	APS_INDEX
Index Tablespace size (MB) Size of Index Tablespace in megabytes	
Index File pathname Full path and name of the Index Tablespace datafile	

If “Create Integra Apps tablespaces” was not checked above: Integra Apps requires the following tablespaces:

Installer Prompt	Record the value you will use:
Data Tablespace name Name of the Data Tablespace (you must use the default value)	APS_DATA
Index Tablespace name Name of the Index Tablespace (you must use the default value)	APS_INDEX

Install Integra Apps

Once you have filled in the Integra Installer Worksheet, confirm that you are prepared to run the Installer. Complete the following steps:

1. Confirm that the Oracle Client version on the Installing computer corresponds to the version of the database housing the Integra Home Schema. See page 2-1 for details.
2. Confirm that Java Runtime Environment J2SE 1.4.2_05 JRE or newer is present on the Installing computer. See page 2-2 for details.
3. Confirm that an SCP client is present on the Installing computer. See page 2-2 for details.
4. Confirm that the file classes12.jar or classes12.zip is present on the Installing computer. See page 2-2 for details.
5. Confirm that the JAR files listed on pages 2-2 to 2-3 have been downloaded.
6. If you are installing Integra Apps for the first time, confirm that an Oracle database is present on the Integra Home computer. See page 2-3 for details.
 - a. Confirm that the database's character set is American_America.WE8ISO8859P1 or a character set that is a superset of it (e.g., UTF8). See page 2-4 for details.
 - b. Confirm that there is adequate disk space for the databases's tablespaces. See pages 2-4 to 2-5 for details.
 - c. Confirm that the database's INIT.ora file (or equivalent) is updated with the required values. See page 2-5 for details.
7. Confirm that the ERP instances to be managed meet the requirements described in "ERP Instance," beginning on page 2-5.
8. Confirm that Integra UI requirements are met. See "Integra UI," beginning on page 2-7, for details.
9. If the Installing computer runs on the UNIX or Linux operating system, confirm that the dos2unix command is available. Issue the command "dos2unix -h" and verify that help for the command appears.

If not, either install the dos2unix command or complete the following steps:

- a. On a Windows computer, complete step 2 in the Integra Apps installation procedure (below).

- b. ZIP the *integra/stage* directory (and its subdirectories).
- c. FTP the ZIP file, using binary mode, to the UNIX/Linux Installing computer.

Complete the following steps to install Integra Apps.

1. Obtain Integra Apps 5.1.2 (*integra-512-apps.zip*) and all other required Integra software from Oracle.
2. Prepare *integra-512-apps.zip* for installation:
 - a. Create the directory *integra* at the root level on the installing computer, if it does not exist already. The full path to this directory must not contain any spaces.
 - b. Place *integra-512-apps.zip* in the *integra* directory.
 - c. Create a subdirectory of the *integra* directory (hereafter called “*integra/stage*”) and unzip *integra-512-apps.zip* into it.
 - d. Inside *integra/stage* is a subdirectory named *lib_stage*. Move the following files (downloaded earlier; see pages 2-2 and 2-3) into *lib_stage*:

```
jasperreports-1.2.8.jar
birt-runtime-2_0_1.zip
itext-1.3.jar
commons-digester-1.7.zip
hibernate-3.0.5.zip
jcommon-0.9.5.zip
jfreechart-0.9.20.zip
```

- e. Run the following script in *integra/stage*:

```
UNIX/Linux users: preinstall.sh
Windows users: preinstall.bat
```

3. Close all command shell windows.
4. Open a new command shell window. (In Windows XP, click Start, select Run, enter *cmd* in the Open field, and click OK.)
5. Set the following environment variables temporarily on the installing computer:

- ORACLE_HOME

Full path to the Oracle client described under “Installing Computer” in the Before You Install chapter (page 2-1). For example:

```
set ORACLE_HOME=c:\oracle\oradbs8i
```

- CATALINA_HOME

UNIX/Linux users should issue the following command, replacing *path* with the full path to the web application executable on the Integra UI server. (For Windows users, no command is required.)

```
set CATALINA_HOME=path; export CATALINA_HOME
```

For example:

```
set CATALINA_HOME=/bin/apache/apache-tomcat-5.5.23;
export CATALINA_HOME
```

- JAVA_HOME

Windows users: Full path to the Java Runtime Environment described under “Installing Computer” in the Before You Install chapter (page 2-2). For example, set:

```
set JAVA_HOME=c:\Program Files\Java\j2re1.4.2_05
```

UNIX/Linux users: Issue the following command, replacing *path* with the full path to the JRE.

```
set JAVA_HOME=path; export JAVA_HOME;
```

For example:

```
set JAVA_HOME=/usr/opt/jdk1.4.2; export JAVA_HOME;
```

- PATH

Windows users, issue the following command:

```
set PATH="%JAVA_HOME%\bin";"%ORACLE_HOME%\bin";%PATH%
```

UNIX/Linux users, issue the following command:

```
set PATH=$CATALINA_HOME/bin:$JAVA_HOME/bin:$PATH;  
export PATH
```

- CLASSPATH

Windows users, issue the following command:

```
set CLASSPATH=%JAVA_HOME%\lib;%ORACLE_HOME%\lib;%CLASSPATH%
```

UNIX/Linux users, issue the following command:

```
set CLASSPATH=%JAVA_HOME%/lib;%CLASSPATH%
```

- NLS_LANG

If the Integra Home instance uses a character set other than American_America.WE8ISO8859P1, this variable must *not* be set.

UNIX/Linux users should issue this command:

```
unset NLS_LANG
```

Windows users should issue this command:

```
set NLS_LANG=
```

6. Verify the installing computer’s connection to the Integra Home instance by entering this command:

```
tnsping TNS-entry
```

In this command, *TNS-entry* is the value you specified in the Integra Installer Worksheet above, in the section beginning “The Integra Home Schema stores all data about your Integra users, security and deployments,” on page 4-1.

If the command returns any error messages, you must resolve them before continuing; work with your system administrator to find resolutions.

7. Using SQLPLUS as SYSTEM, confirm that you can connect to the database.
8. Confirm that Oracle IMP is available: Issue "imp -help" and verify that the IMP help information appears.

9. If you have already installed other 5.x component(s):
 - Ask all users to log out of all Integra products.
 - Stop the Integra web application.
10. If you use Integra Apps 4.x, remove Integra Apps from each ERP instance, using the Deployment Workbench. (Navigate to Instance Configuration: Deployment Workbench from the Administrator Role.)
11. If you have used the Installer before, deleted the file .installer on the Installing computer. (Do this each time you prepare to run the Installer).
 - On a Windows Installing computer, .installer is located in C:\Documents and Settings*username*.
 - On a UNIX/Linux Installing computer, .installer is located in the User's home directory.
12. If you are upgrading from a previous version of Integra Apps, or if you are re-attempting a failed installation, use SQLPLUS to issue the following query:

```
Select * from tab where tname like 'APS%'
```

The query should return only the following table names:

```
APS1_META_COLUMNS
APS1_META_FUNCTION_OVERLOADS
APS1_META_OBJECTS_FORMS
APS1_META_TABLES
APS_CH_REPORT_V
APS_RPT_CHANGE_TRACKING_V
APS_SNAPSHOT_KEYS
APS_SNAPSHOT_SELECTS
APS_SNAPSHOT_TABLE_JOINS
```

If the query returns table other than these, drop them.

13. Go to the integra/stage directory.
14. Launch the Integra Installer by issuing the command appropriate for the installing computer's operating system.
 - For Linux or UNIX:


```
install.sh options -f apps-512-install.apf
```
 - For Windows:


```
install.bat options -f apps-512-install.apf
```

In this command, *options* are the following

- `-a` runs the installer in analyze mode, which checks the destination environment without installing.
- `-c` logs to the console as well as a log file.
- `-dlevel` sets the debug level. *level* is a value between 0 and 5. There is no space between *d* and *level*; e.g., `d1`
- `-f path` is shown in the examples above, and specifies the path to the package to be installed.

- `-h` displays a list of all flags.
- `-l` lists the components in the package specified with the `-f` option.
- `-p` has been deprecated. Do not use this option.
- `-x` has been deprecated. Do not use this option.

For example: `install.sh -f apps-512-install.apf`

15. Follow the Installer’s step-by-step instructions.

If the Installing computer is UNIX/Linux, do the following before responding to any of the Installers prompts:

- Go to the directory where the Installer application is located (the `./integra/` stage directory on the Installing computer).
- Go to the `Payload/aps/install` subdirectory, which the Installer has just created.
- Issue this command:

```
chmod +x *.sh
```

While using the Integra Installer, you are presented with a checkbox labeled *Copy files manually* on the page beginning “The installer copies files to your database’s `UTL_FILE_DIR` directory.” Refer to the Integra Installer Worksheet above to find the value you choose to enter.

If you checked *Copy files manually*, copy the files now:

- Connect to the `Install` directory (see above).
 - Copy the contents of the `utl_file_dir` directory to the Integra Home instance’s `UTL_FILE_DIR`.
- 16.** Keep the `integra/stage` directory. You will use its contents later to install additional software needed by Integra Apps 5.1.2.
- 17.** Proceed to the next chapter, “Configure the Integra UI Server.”

Configure the Integra UI Server

This section contains three sets of instructions. Select the set of instructions that corresponds to the web application server you use.

- Tomcat
- Oracle Application Server (OAS)
- WebLogic

Tomcat

Complete these steps if you use the Tomcat web application server, and if you are performing a fresh installation of Integra Apps 5.1.2:

1. You specified the webapps directory of the Tomcat application server as your Install Directory as you ran the Integra Installer. (See the “Install directory” entry in the Integra Installer Worksheet on page 4-4.) As a result, a file called `aps.war` has been copied to the webapps directory.

Navigate to that directory and manually rename the file. For the new name, use the value you recorded in the “Web app name” entry of the Integra Installer Worksheet (see page 4-5).

For example, the recommended “Web app name” value is *integra*, and if you followed the recommendation, you would rename `aps.war` to `integra.war`.

In subsequent steps, it will be assumed that you accepted the recommended value. If not, however, substitute your web app name where you see the value *integra*.

2. Stop and restart the Tomcat web application server. This explodes the *integra.war* file, creating an *integra* subdirectory of the webapps directory and placing Integra components in it. After the *integra.war* file is exploded, delete it..
3. Copy the file `classes12.jar` (which can be found on the installing computer) to the directory `$CATALINA_HOME/common/lib`.
4. Use Tomcat’s administration tools to deploy a new web application, using *integra* for each of the context name and deploy directory values.

5. Copy the file *TomcatHome/webapps/integra/config/integra.xml* to the `$CATALINA_HOME/conf/catalina/localhost` directory. (In this command, substitute the full path to the Tomcat home directory for the value *TomcatHome*.)
6. Edit the *integra.xml* file, replacing the following defaults with values specific to your instance.

File Defaults	Replacement Values
@webserver.contextname@	<i>integra</i>
@webserver.deploy.path@	Full path to the <i>TomcatHome/webapps/integra</i> directory
@database.amhome.jndiname@	JNDI Name you specified in the Integra Installer (see page 4-5).
@database.amhome.password@	Password of the Integra Home schema
@database.amhome.username@	Username of the Integra Home schema
@database.amhome.url@	<p><code>jdbc:oracle:thin:@hostname:port:SID</code></p> <p>In this line, replace:</p> <ul style="list-style-type: none"> • <i>hostname</i> with the domain name of the Integra Home instance's host (e.g., <code>localhost</code> or <code>amhome.mydomain.com</code>) • <i>port</i> with the Integra Home instance port • <i>SID</i> with the Integra Home Instance SID <p>These values should be recorded in the Integra Installer Worksheet on page 4-1.</p>

7. Edit the file *TomcatHome/webapps/integra/config/amhome.conf*, replacing the following defaults with values specific to your instance.

File Defaults	Replacement Values
@webserver.type@	tomcat
@database.amhome.jndiname@	JNDI Name you specified in the Integra Installer (see page 4-5).

8. Edit the file *TomcatHome/webapps/integra/config/quartz.properties*, replacing the following defaults with values specific to your instance.

File Defaults	Replacement Values
@database.amhome.url@	<p><code>jdbc:oracle:thin:@hostname:port:SID</code></p> <p>In this line, replace:</p> <ul style="list-style-type: none"> • <i>hostname</i> with the domain name of the Integra Home instance's host (e.g., <code>localhost</code> or <code>amhome.mydomain.com</code>) • <i>port</i> with the Integra Home instance port • <i>SID</i> with the Integra Home Instance SID <p>These values should be recorded in the Integra Installer Worksheet on page 4-1.</p>
@database.amhome.username@	Username of the Integra Home schema
@database.amhome.password@	Password of the Integra Home schema

9. UNIX/Linux users: Add the following two lines just below the initial comments in the file `startup.sh` (enter the entire `CATALINA_OPTS=` statement on a single line):

```
CATALINA_OPTS="-Djava.awt.headless=true
-Djava.security.auth.login.config=web-application-path/
WEB-INF/jaas.config -XmsInitial -XmxMaximum"

export CATALINA_OPTS
```

In these commands:

- *web-application-path* is the full pathname of the *TomcatHome/webapps/integra* directory.
- *Initial* and *Maximum* set the initial memory pool and maximum memory pool. The initial memory pool must be set to 256 MB or greater (example: `-Xms256M`), and the maximum memory pool must be set to 768 MB or greater (example: `-Xmx768M`).

10. Windows users:

- a. In Windows, select Start > Configure Tomcat
- b. Select the Java tab.
- c. Add the following lines under Java Options:

```
-Djava.awt.headless=true
-Djava.security.auth.login.config=web-application-
path\WEB-INF\jaas.config
```

In these commands, replace *web-application-path* with the full pathname of the *TomcatHome/webapps/integra* directory.

- d. Verify that the initial memory pool is set to 256 MB or greater, and that maximum memory pool is set to 768 MB or greater.
11. Copy the file `ARIALUNI.TTF` to the *TomcatHome/webapps/integra/WEB-INF/classes* directory. For information on this file, see “Integra UI,” beginning on page 2-7 in the Before You Install chapter.
12. If the directory *TomcatHome/webapps/integra/WEB-INF/fonts* contains one or more `*.ttf` files, copy them to:
- UNIX/Linux users: `/usr/local/amfonts` (create this directory if it does not already exist)
 - Windows users: `C:\WINDOWS\Fonts`
13. If the Integra UI Server does not have Internet access, edit the file *TomcatHome/webapps/integra/WEB-INF/classes/resources/AMResources.properties*. Set the properties `banner0`, `banner1` and `banner2` to:
- ```
http://server-name:port/integra/jsp/amblank.jsp
```
- In this path:
- Replace *server-name* with the domain name of your Integra UI Server.
  - Replace *port* with port Integra normally accesses on the UI Server.

14. If the following files exist in the *TomcatHome/ webapps/integra /WEB-INF/lib* directory, delete them:

- *jasperreports-0.6.1.jar*
- *itext-1.02b.jar*
- *itext-1.4.jar*

15. Restart the Tomcat web application server.

You have configured the Integra UI Server. Proceed to the *Integra Apps 5.1.2 Administration Guide* and configure Integra Apps 5.1.2.

Complete these steps if you use the Tomcat web application server, but you are upgrading from version 5.1, 5.1.1, or 5.1.1.1, or if you use earlier versions of other Integra components:

1. You have previously created a directory for your Integra applications, and you specified its name as the Install Directory when you ran the Integra Installer. (See the “Install directory” entry in the Integra Installer Worksheet on page 4-4.) As a result, a file called *aps.war* has been copied to this directory (which, in further references in this procedure, will be called *InstallDirectory*).

Navigate to *InstallDirectory* and manually rename the file. For the new name, use the value you recorded in the “Web app name” entry of the Integra Installer Worksheet (see page 4-5).

For example, the recommended “Web app name” value is *integra*, and if you followed the recommendation, you would rename *aps.war* to *integra.war*.

In subsequent steps, it will be assumed that you accepted the recommended value. If not, however, substitute your web app name where you see the value *integra*.

2. In *InstallDirectory*, explode the *integra.war* file. This creates an *integra* subdirectory of *InstallDirectory* and places Integra components in it. After *integra.war* is exploded, delete it.

3. Stop and restart the Tomcat web application server.

You have configured the Integra UI Server. Proceed to the *Integra Apps 5.1.2 Administration Guide* and configure Integra Apps 5.1.2.

## Oracle Application Server (OAS)

While using the Installer, you specified an install directory. (Its name is recorded in “Install directory” entry of the Integra Installer Worksheet, on page 4-4.) In further references in the following steps, this directory will be called *InstallDirectory*. The Installer placed a file called *aps.war* in the *InstallDirectory*.

1. If you are installing your first 5.x component:
  - a. Log into the Oracle Enterprise Manager.
  - b. Select the OC4J instance that will serve the Integra web application.
  - c. Click the Applications tab.
  - d. Select Deploy WAR file.

- e. On the Deploy Web Application page, enter the following information:
    - Web Application: The full, actual path to the file *InstallDirectory/aps.war*.
    - Application Name: The web application name you specified in the Integra Installer. (See the “Web app name” in the Integra Installer Worksheet, on page 4-5.) The recommended “Web app name” value is *integra*, and in subsequent steps it is assumed that you accepted the recommended value. If not, substitute your web app name where you see the value *integra*.
    - Map to URL: */integra*
  - f. Click Deploy.
2. Delete the *aps.war* file.
  3. If you have already installed other 5.x components, restart the OAS web application server. Then proceed to the *Integra Apps 5.1.2 Administration Guide* to configure this Integra Apps 5.1.2.

If you are installing your first 5.x component, complete the following steps. In these steps, *web-app-path* is the path to the directory containing the web application server files. This is typically *OAS-home-directory/j2ee/OC4J-instance-name/integra/integra*.

4. Verify that the OAS Initial Memory Pool is set to 256 MB or greater, and Maximum Memory Pool is set to 768 MB or greater.

To do this, open the Server Properties page on Oracle Enterprise Manager. Ensure that the Job Options field contains the arguments *-XmsInitial* and *-XmxMaximum*, in which the values *Initial* and *Maximum* are replaced by the memory settings — for instance, *-Xms256M* and *-Xmx768M*.

5. Edit the file *web-app-path/config/amhome.conf.*, replacing the following defaults with values specific to your instance.

| File Defaults              | Replacement Values                                               |
|----------------------------|------------------------------------------------------------------|
| @webserver.type@           | oas                                                              |
| @database.amhome.jndiname@ | JNDI Name you specified in the Integra Installer (see page 4-5). |

6. Edit the file *web-app-path/config/quartz.properties*, replacing the following defaults with values specific to your instance.

| File Defaults              | Replacement Values                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| @database.amhome.url@      | jdbc:oracle:thin:@ <i>hostname</i> : <i>port</i> : <i>SID</i><br>In this line, replace: <ul style="list-style-type: none"> <li>• <i>hostname</i> with the domain name of the Integra Home instance’s host (e.g., localhost or amhome.mydomain.com)</li> <li>• <i>port</i> with the Integra Home instance port</li> <li>• <i>SID</i> with the Integra Home Instance SID</li> </ul> These values should be recorded in the Integra Installer Worksheet on page 4-1. |
| @database.amhome.username@ | Username of the Integra Home schema                                                                                                                                                                                                                                                                                                                                                                                                                               |
| @database.amhome.password@ | Password of the Integra Home schema                                                                                                                                                                                                                                                                                                                                                                                                                               |

7. Copy the following lines from *web-app-path/config/jazn-data.xml* to *OAS-home-directory/j2ee/OC4J-instance-name/config/jazn-data.xml*, below the `<jazn-login-config>` element:

```
<application>
 <name>RDBMSConfiguration</name>
 <login-modules>
 <login-module>
 <class>com.applimation
 .amplatform.security.AMRdbmsLoginModule</class>
 <control-flag>required</control-flag>
 <options>
 <option>
 <name>debug</name>
 <value>true</value>
 </option>
 </options>
 </login-module>
 </login-modules>
</application>
<application>
 <name>LDAPConfiguration</name>
 <login-modules>
 <login-module>
 <class>com.applimation.amplatform.security.AMLdapLoginModule</class>
 <control-flag>required</control-flag>
 <options>
 <option>
 <name>debug</name>
 <value>true</value>
 </option>
 </options>
 </login-module>
 </login-modules>
</application>
```

8. OAS 10gAS users: Change this line in *OAS-home-directory/j2ee/OC4J-instance-name/config/jazn.xml* (near the top of the file):

```
<jazn provider="XML" location="./jazn-data.xml" />
```

to

```
<jazn provider="XML" location="OAS-home-directory/
j2ee/OC4J-instance-name/applications/integra/applimation/
config/jazn-data.xml" />
```

9. Return to the Oracle Enterprise Manager.
10. Select the same OC4J instance as earlier.
11. Click the Applications tab.
12. Click the name of the application you created above.
13. From the Resources menu, select Data Sources.
14. Click Create.

15. On the Create Data Source page, enter the following information:

Prompt	Value
Name	<code>jdbc/integra</code>
Data Source Class	<code>com.evermind.sql.DriverManagerDataSource</code>
JDBC URL	<code>jdbc:oracle:thin:@hostname:port:SID</code> In this line, replace: <ul style="list-style-type: none"> <li><code>hostname</code> with the domain name of the Integra Home instance's host (e.g., <code>localhost</code> or <code>amhome.mydomain.com</code>)</li> <li><code>port</code> with the Integra Home instance port</li> <li><code>SID</code> with the Integra Home Instance SID</li> </ul>
JDBC Driver	<code>oracle.jdbc.driver.OracleDriver</code>
Username	Username of the Integra Home schema
Use Cleartext Password	Checked
Password	Password of the Integra Home schema
Location	<code>jdbc/integra</code>
Transactional (XA) Location	<code>jdbc/xa/integra</code>
EJB Location	<code>jdbc/integra</code>

16. Click Apply.
17. Copy the file `ARIALUNI.TTF` to the `web-app-path/WEB-INF/classes` directory. For information on this file, see “Before You Install: System Requirements: Integra UI” above.
18. If the directory `web-app-path/WEB-INF/fonts` contains one or more `*.ttf` files, copy them to:
- UNIX/Linux users: `/usr/local/amfonts`  
(create this directory if it does not already exist)
  - Windows users: `C:\WINDOWS\Fonts`
19. Edit the file `OAS-home-directory/opmn/conf/opmn.xml`, find `<ias-component id="OC4J">`, and add the following line below `<category id="start-parameters">`:
- ```
<data id="oc4j-options" value="-userThreads"/>
```
- OAS 10gAS users: Also add the following line:
- ```
<data id="java-options" value="-server -
Djava.security.policy=$ORACLE_HOME/j2ee/home/config/java2.p
olicy -Djava.awt.headless=true -Dhttp.webdir.enable=false
-Xms1024M -Xmx1024M"/>
```
20. OAS 10gAS users: In ASC console `> Members: home > Administration > Thread Pool Configuration > Application Server Thread Pool`, enter the following values:
- Minimum Pool Size: 5
  - Keep Alive Duration: 10

21. OAS 10gAS users: In ASC console > Applications > integra > Administration > JDBC Resources > Connections Pools: amhome > Attributes, enter the following values:
  - Initial size of Connection Cache: 5
  - Minimum Number of Connections: 5
  - Maximum Number of Statements Cached: 200
  - Inactivity Timeout (seconds): 300
22. OAS 10gAS users: In ASC console > Members: home > Administration > Logger Configuration > Root Logger: INFO > Apply, enter the value INFO for Logging Levels.
23. If the Integra UI Server does not have Internet access, edit the file *integra*/WEB-INF/classes/resources/AMResources.properties. Set the properties banner0, banner1 and banner2 to:
 

```
http://server-name:port/integra/jsp/amblank.jsp
```

 In this path:
  - Replace *server-name* with the domain name of your Integra UI Server.
  - Replace *port* with port Integra normally accesses on the UI Server.
24. Restart the OC4J instance.

You have configured the Integra UI Server. Proceed to the Integra Apps 5.1.2 Administration Guide and configure Apps 5.1.2.

## WebLogic

Complete these steps if you use the WebLogic web application server, and if you are performing a fresh installation of Integra Apps 5.1.2:

1. You specified a directory as your Install Directory when you ran the Integra Installer. (See the “Install directory” entry in the Integra Installer Worksheet on page 4-4.) As a result, a file called *aps.war* has been copied to this directory (which, in subsequent steps, will be called *InstallDirectory*).

Navigate to *InstallDirectory* and manually rename the file. For the new name, use the value you recorded in the “Web app name” entry of the Integra Installer Worksheet (see page 4-5).

For example, the recommended “Web app name” value is *integra*, and if you followed the recommendation, you would rename *aps.war* to *integra.war*.

In subsequent steps, it will be assumed that you accepted the recommended value. If not, however, substitute your web app name where you see the value *integra*.

2. Explode the *integra.war* file. This creates an *integra* subdirectory of *InstallDirectory* and places Integra components in it. After the *integra.war* file is exploded, delete it..

3. Copy the file `classes12.jar` (which can be found on the installing computer) to the directory `$WEBLOGIC_HOME/weblogic81/common/lib`.
4. Verify that the WebLogic Initial Memory Pool is set to 256 MB or greater, and Maximum Memory Pool is set to 768 MB or greater.
5. Use the WebLogic Console to deploy a new web application, using *integra* for each of the context name and deploy directory values.
6. Use the WebLogic Console to create a Connection Pool for the new web application's domain that:
  - Connects to your Integra Home schema
  - Uses the JNDI Name you specified in the Integra Installer
7. Edit the file `InstallDirectory/integra/config/amhome.conf`, replacing the following defaults with values specific to your instance.

File Defaults	Replacement Values
@webserver.type@	weblogic
@database.amhome.jndiname@	JNDI Name you specified in the Integra Installer (see page 4-5).

8. Edit the file `InstallDirectory/integra/config/quartz.properties`, replacing the following defaults with values specific to your instance.

File Defaults	Replacement Values
@database.amhome.url@	jdbc:oracle:thin:@ <i>hostname</i> : <i>port</i> : <i>SID</i> In this line, replace: <ul style="list-style-type: none"> <li>• <i>hostname</i> with the domain name of the Integra Home instance's host (e.g., localhost or amhome.mydomain.com)</li> <li>• <i>port</i> with the Integra Home instance port</li> <li>• <i>SID</i> with the Integra Home Instance SID</li> </ul> These values should be recorded in the Integra Installer Worksheet on page 4-1.
@database.amhome.username@	Username of the Integra Home schema
@database.amhome.password@	Password of the Integra Home schema

9. UNIX/Linux users: In the file `startup.sh`, find the line that starts the WebLogic server. The line begins with `$JAVA_HOME/bin/java` and ends with `weblogic.Server`.

Insert the following text into that line, just before `weblogic.Server`:

```
-Djava.awt.headless=true
-Djava.security.auth.login.config=web-application-path/
WEB-INF/jaas.config -XmsInitial -XmxMaximum
```

In these commands:

- *web-application-path* is the full pathname of the *InstallDirectory*.
- *Initial* and *Maximum* set the initial memory pool and maximum memory pool. The initial memory pool must be set to 256 MB or greater (example: `Xms256M`), and the maximum memory pool must be set to 768 MB or greater (example: `-Xmx768M`).

10. Windows users: In the file `startWeblogic.cmd`, find the line that starts the WebLogic server. The line begins with `%JAVA_HOME%\bin\java` and ends with `weblogic.Server`.

Insert the following text into that line, just before `weblogic.Server`:

```
-Djava.awt.headless=true
-Djava.security.auth.login.config=web-application-path\
WEB-INF\jaas.config
```

In these commands, `web-application-path` is the full pathname of the `InstallDirectory`.

11. Copy the file `ARIALUNI.TTF` to `InstallDirectory/integra/WEB-INF/classes`. For information on this file, see “Integra UI,” beginning on page 2-7 in the Before You Install chapter.
12. If the directory `InstallDirectory/integra/WEB-INF/fonts` contains one or more `*.ttf` files, copy them to:
  - UNIX/Linux users: `/usr/local/amfonts`  
(create this directory if it does not already exist)
  - Windows users: `C:\WINDOWS\Fonts`
13. If the Integra UI Server does not have Internet access, edit the file `InstallDirectory/integra/WEB-INF/classes/resources/AMResources.properties`. Set the properties `banner0`, `banner1` and `banner2` to:

```
http://server-name:port/integra/jsp/amblank.jsp
```

In this path:

- Replace `server-name` with the domain name of your Integra UI Server.
  - Replace `port` with port Integra normally accesses on the UI Server.
14. Restart the domain where you deployed the Integra web application.

You have configured the Integra UI Server. Proceed to the *Integra Apps 5.1.2 Administration Guide* and configure Apps 5.1.2.

Complete these steps if you use the WebLogic web application server, but you are upgrading from version 5.1, 5.1.1, or 5.1.1.1, or if you use earlier versions of other Integra components:

1. You have previously created a directory for your Integra applications, and you specified its name as the Install Directory when you ran the Integra Installer. (See the “Install directory” entry in the Integra Installer Worksheet on page 4-4.) As a result, a file called `aps.war` has been copied to this directory (which, in further references in this procedure, will be called `InstallDirectory`).

Navigate to `InstallDirectory` and manually rename the file. For the new name, use the value you recorded in the “Web app name” entry of the Integra Installer Worksheet (see page 4-5).

For example, the recommended “Web app name” value is `integra`, and if you followed the recommendation, you would rename `aps.war` to `integra.war`.

In subsequent steps, it will be assumed that you accepted the recommended value. If not, however, substitute your web app name where you see the value `integra`.

2. In *InstallDirectory*, explode the *integra.war* file. This creates an *integra* subdirectory of *InstallDirectory* and places Integra components in it. After *integra.war* is exploded, delete it.
3. Stop and restart the WebLogic web application server.

You have configured the Integra UI Server. Proceed to the *Integra Apps 5.1.2 Administration Guide* and configure Integra Apps 5.1.2.

