

ORACLE®

Integra Codebase 4.2 SP1

Installation and Upgrade Guide

Copyright and Trademark

Copyright © 2008 Oracle. All rights reserved. No part of this document may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, microfilming, recording, or otherwise, without written permission from Oracle.

Oracle is a registered trademark. All other company and product names are used for identification purposes only and may be trademarks of their owners.

Oracle

15420 Laguna Canyon Road, Suite 150

Irvine, CA 92618

+1-949-453-9101 • Support: +1-949-419-1290

<http://www.oracle.com>

Last updated January 1, 2008

Contents

Start Here4

 About this guide5

 Terminology6

 Contact us7

Before You Install or Upgrade8

 System requirements9

 Personnel requirements..... 16

Integra Installer Worksheet17

Install or Upgrade Integra Codebase25

Start Here

This guide explains how to install Integra Codebase 4.2 SP1, and how to upgrade from Codebase 3.9 or 4.1.

Broadly speaking, you must perform the following tasks in the order shown:

- 1 **Prepare for installation/upgrade.** See the next three chapters: “Before You Install or Upgrade,” “Prepare the Oracle Forms and Reports Servers” and “Integra Installer Worksheet.”
- 2 **Install/upgrade.** See the following chapter: “Install or Upgrade Integra Codebase.”
- 3 **Configure.** See the final chapter, “Configure the Oracle Forms and Reports Servers,” and then the *Integra Codebase 4.2 SP1 Administrator Guide*.
- 4 **Use.** See the *Integra Codebase 4.2 SP1 User Guide*.

About this guide

Prerequisites and assumptions

This guide assumes that:

- Your organization has licensed Integra Codebase 4.2 SP1

Intended audience

- Anyone installing Integra Codebase
- Those who must plan for, staff, and manage the installation of Integra Codebase

Documents about Integra Codebase 4.2 SP1

Release Notes provides a quick overview of the features offered in this release.

Implementation Overview describes installation requirements, prerequisites, and other considerations. It also discusses business decisions that can affect installation, configuration and use.

Installation Guide gives step-by-step installation instructions.

Administration Guide explains how to configure and administer Integra.

User Guide shows how to perform day-to-day tasks.

Terminology

Using Integra Codebase

Codebase Home schema	<p>Database schema that stores all Codebase configuration data, and the information needed for comparing and versioning your files and database objects. Codebase can share this database with other applications.</p> <p>The schema resides in an Oracle database. The database, in turn, can reside on any server (including the Codebase Server). Codebase users and the Codebase Server access the schema using SQL*Net.</p>
Codebase Server	Runs the Codebase application, including its automated processes (Automated Versioning, Automated Publishing, Automated Change Finder and Automated Generation).
Environment	<p>Database instance monitored by Integra Codebase, and a set of files associated with that instance.</p> <p>Example: an Oracle E-Business Suite database instance, and the collection of programmatic files used by the Suite.</p>
Module	A single piece of programmatic content, such as a file or a database object (including Oracle E-Business Suite forms, reports, menus, libraries, and PL/SQL code).
Project	Collection of Environments that are part of a code promotion hierarchy (e.g., Development, Test, and Production), and a set of user permissions and other configuration information. Projects are usually used to represent logical units of work as well as groups of Environments. The Project Administrator must create projects before anyone can use Codebase.

Installation

Integra Installer	Platform-independent software for installing Integra components.
Installing computer	Computer where the Integra Installer is run.

Contact us

If you have questions about installing this product after reading this guide, please contact Oracle Support.

If you would like information about new applications, functionality, or fixes, please contact your Account Manager or Oracle Sales.

Before You Install or Upgrade

This section contains essential requirements you must meet before installing or upgrading.

For a successful installation or upgrade, be sure to follow all recommendations in this section.

Oracle will send you a set of scripts that verify these requirements.

If you are upgrading from Codebase 3.9 or 4.1: You will install Codebase 4.2 SP1, then import your 3.9/4.1 data into it. Your 3.9/4.1 installation will not be affected by the upgrade, and can be used as before. You may install 4.2 SP1 in either in the same environment as 3.9/4.1, or in a new environment. Likewise, you may install 4.2 SP1 in the same database as 3.9/4.1, or a new one. Regardless, the requirements below must be met.

System requirements

To successfully install and use Integra Codebase 4.2 SP1, your systems must satisfy the following requirements. Do not attempt installation until they are met.

If you are upgrading from Codebase 3.9 or 4.1: During the upgrade process, you will install Codebase 4.2 SP1. All installation requirements below apply.

All requirements below are mandatory, unless otherwise stated. Do not attempt installation until all requirements have been met. Failure to do so will lead to errors and delays.

Installing computer

- 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...	The Installing computer's Oracle client must be...
Oracle 9i database	Oracle 9i
Oracle 10g database	Oracle 9i or 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: You 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 Codebase Home schema.

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 Codebase Home schema. 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>).
- The file **jacob_18.zip** (a COM-to-Java bridge, downloadable from http://prdownloads.sourceforge.net/jacob-project/jacob_18.zip). For information about this file, visit prdownloads.sourceforge.net/jacob-project.
- The file **xapool-1.4.2.jar** (an open-source utility package, downloadable from <http://download.forge.objectweb.org/xapool/xapool-1.4.2.jar>). For information about this file, visit xapool.experlog.com.
- The file **jasperreports-1.2.8.jar** (an open-source reporting engine, downloadable from http://downloads.sourceforge.net/jasperreports/jasperreports-1.2.8.jar?modtime=1163544934&big_mirror=0). For information about this file, visit www.sourceforge.net/projects/jasperreports.
- The file **birt-runtime-2_1_1.zip** (an open-source reporting engine, downloadable from http://www.eclipse.org/downloads/download.php?file=/birt/downloads/drops/R-R1-2_1_1-200609260959/birt-runtime-2_1_1.zip). For information about this file, visit www.eclipse.org/birt.
- 100MB of disk space for temporary storage of installation files.

Codebase Home schema

Choosing an instance

- The Codebase Home schema can reside in a new or existing database instance. The database can contain non-Integra schemas, and Codebase 3.9/4.1 schemas, but we recommend choosing an instance that does not contain business application schemas.

Platform

- Any of the following operating systems: AIX, HP/UX, Linux, Microsoft Windows, Solaris.

Software

- Database
 - Oracle 9i database version 9.2.0.3 or higher
 - ...or:
 - Oracle 10g database
- SQL*Plus
- SQL*Net connectivity to each instance managed or used by Integra
- ***If you are upgrading from Codebase 3.9 or 4.1 with a Home schema running in a Windows environment to Codebase 4.2 with a Home schema running in a Unix/Linux environment:*** The 3.9/4.1 environment must have an ssh server. The Integra Installer will use this server when transferring data from the 3.9/4.1 schema to the 4.2 schema.

Database

Once you choose the database that will house the Codebase Home schema, complete the following requirements.

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

Tablespace name	Minimum size for EACH Oracle E-Business Suite instance	Minimum size for EACH other instance
COD_DATA	3 GB	800 MB
COD_INDX	2 GB	500 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, make note of the names you use, because the Installer will ask you for them.

If you are upgrading from Codebase 3.9 or 4.1: If tablespaces with these names already exist in the database that will house the 4.2 Home schema, you will create new tablespaces with different names (e.g., COD_421_DATA), and must have adequate disk space for the new tablespaces.

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

Parameter	Value
_complex_view_merging	FALSE
cursor_sharing	EXACT
global_names	false
java_pool_size	= 65000000 or greater
open_cursors	4096
undo_retention	10800

- SYSTEM passwords

- ***If you are upgrading from Codebase 3.9 or 4.1:*** The Integra Installer will create a DB link between this database and the one that houses your current Codebase Home schema (in order to transfer data from the latter to the former). The environments housing the two databases must allow creation of this link.

Environments

Platform

- Any of the following operating systems: AIX, HP/UX, Linux, Microsoft Windows, Solaris.

Software

To version and manage database objects:

- Database
 - Oracle 9i database version 9.2.0.3 or higher
 - ...or:
 - Oracle 10g database
- SQL*Plus
- SQL*Net connectivity to each instance managed or used by Integra
- SYSTEM password

Database

- A tablespace with at least 10MB available. The tablespace can be shared with other applications, or dedicated to Codebase. Codebase uses the table to temporarily store data.

If you are upgrading from Codebase 3.9 or 4.1: This space requirement is in addition to 3.9/4.1's needs.

Codebase Server

This server performs all Codebase actions, including all logic, automation, and serving of the Codebase user interface. It may reside on any computer other than those serving the Environments, and must meet these requirements:

Platform

- Any platform that supports the required application server specified below. Consult the database vendor's documentation for information about supported platforms.

Software

- The following components of **Oracle Application Server 10gAS Release 2**, installed from Oracle Corporation media to a new Oracle home directory:

Apache web server

J2EE container

Oracle Forms service

Configuration

- The OC4J_BI_Forms **Java** startup parameters must include:

```
-Xx:+AggressiveHeap
```

- Unix/Linux only:** The BC4J_Forms **DISPLAY** variable must be set to `xTerm`. (This variable can be set using the Oracle Enterprise Manager.)
- Unix/Linux only:** The application server's login user must have an environment file that specifies the full path to the `ls` and `env` commands.
- Windows only:** The Codebase Server must have access to the files and databases on each Environment that will be managed. The typical way to provide this access is by creating NFS mounts; an alternative is to enable `ssh` and `scp` capabilities.

Database

- Adequate disk space to store all versions. At the outset, we recommend allocating at least 10GB. If you plan to version all Oracle E-Business Suite database objects, we recommend allocating 20GB.

User workstations

Platform

- Computer with network connection
- Any of these operating systems: AIX HP/UX; Linux; Windows NT 4.0, 2000 or XP; Solaris

Software

- Any of these web browsers: Firefox 1.5 or higher, Microsoft Internet Explorer 5.5 or higher, Mozilla 1.7.12 or higher, Netscape 7 or higher
- Adobe Reader 5.0 or higher

Personnel requirements

The following personnel from your organization will be needed either before or during installation:

- Database administrator

Integra Installer Worksheet

You will use software provided by Oracle – the Integra Installer – to install or upgrade Integra Codebase. The installer will ask you to provide information about the environments that Integra will use.

The following worksheet ensures an easier and more efficient installation by gathering this information now. Record the information you will provide in the space provided.

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

If you are upgrading from Codebase 3.9 or 4.1: As mentioned earlier, during the upgrade process, you will install Codebase 4.2 SP1. All installation requirements below apply.

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

Record the value you will use:

Hostname	Hostname of database that will house the Codebase Home schema
SID (service name)	SID (aka 'service name') of database that will house the Codebase Home schema
Port	Port number for accessing database that will house the Codebase Home schema
SYSTEM password	Password of database's SYSTEM user
Database version	Version of database that will contain the Codebase Home schema

Enter the following information about the Codebase Home schema:

Record the value you will use:

Home Schema name	Name of Codebase Home schema
Home Schema password	Password of Codebase Home schema
Home Schema already exists (checkbox)	Check if Codebase Home schema is already installed in database specified above

If the Codebase Home schema does not exist yet: Enter the following information:

Record the value you will use:

Company name	Company or Organization name
Company mail host	Company or Organization SMTP mail host
Company mail port	Port number to use for sending mail
Temporary tablespace	Name of temporary tablespace used by Codebase Home schema
Create Codebase tablespaces (if they were not created already) (checkbox)	Uncheck if Platform tablespaces required by Codebase Home schema have already been created

If “Create Codebase tablespaces” was checked above: This installer will create two tablespaces for the Codebase Home schema, and one datafile for each tablespace. Specify their details here:

Record the value you will use:

Data Tablespace name	Name of Data Tablespace (we recommend accepting the default value)	COD_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 (we recommend accepting the default value)	COD_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	

If “Create Codebase tablespaces” was NOT checked above: The Codebase Home schema requires the following tablespaces:

Record the value you will use:

Data Tablespace name	Name of the Data Tablespace
Index Tablespace name	Name of the Index Tablespace

Enter the following information about your Oracle Application Server:

Record the value you will use:

OAS server version	Oracle Application Server version	<i>Select one:</i> Oracle 10g AS Release 1 Oracle 10g AS Release 2
OAS home directory	Directory of Oracle Application Server home	
OAS host	Name of Oracle Application Server host	
OAS port	Directory of Oracle Application Server host port	
Application config name	Application configuration name	codebase
Oracle web admin server port	Directory of Oracle Application Server admin host port	
Oracle web admin user name	Oracle Application Server admin name	
Oracle web admin user password	Oracle Application Server admin password	
Oracle form web instance	Oracle Application Server instance	
Install directory	Directory where Oracle Application Server assets will be installed	
Operating system	Operating system of Oracle Application Server	<i>Select one:</i> Windows Solaris HP-Unix AIX Linux (Redhat)

Manually deploy EAR file (checkbox)	Check if you want to manually deploy the EAR file containing the Codebase application to the Codebase server (normally this is done automatically using scp)
--	--

If the application server's operating system (specified above) is Unix/Linux: The installer copies files to your application server directory. Enter the following information:

Record the value you will use:

Login user	OS username of the application server
Login password	OS password of the application server
OS BIN directory	OS BIN directory of the application server
User environment script	Script that sets the Login user's environment variables

Enter the following information about the installing computer:

Record the value you will use:

Oracle BIN directory	Directory where Oracle executables (e.g., sqlplus) have been installed on this computer
TNS entry	TNS entry for the Codebase Home database on this computer

If you are upgrading from Codebase 3.9 or 4.1: To copy data and settings from a Codebase 3.9 or 4.1 environment that already exists, set the options below. To create a fresh installation Codebase 4.2, leave the box below unchecked.

Record the value you will use:

Copy existing data and settings (checkbox)	Check if you want to copy a Codebase 3.9 or 4.1 environment's data and settings to your 4.2 environment
Current version	Version you are copying data and settings from
	<i>Select one:</i> 3 . 9 4 . 1

If you are upgrading from Codebase 3.9 or 4.1: Enter the following information about the Codebase environment you are copying data and settings from:

Record the value you will use:

Home schema name	Name of the Codebase Home schema user in the environment you are copying from
Home schema password	Password of Codebase Home schema in the environment you are copying from
TNS entry	TNS entry of Codebase Home you are copying from

If you are upgrading from Codebase 3.9 or 4.1: Enter the following connection information for the Codebase environment you are copying from:

Record the value you will use:

Host name	Hostname of Codebase environment you are copying from
System user name	Name of OS user for Codebase environment you are copying from
System user password	Password of OS user for Codebase environment you are copying from
Source path	Full path to existing file versions
Destination path	Full path to directory where you will store file versions

Install or Upgrade Integra Codebase

- 1 Ensure that you have satisfied all requirements and prerequisites described above, and completed the Integra Installer Worksheet (also above).
- 2 Obtain Codebase 4.2 SP1 (**codebase-421-install.zip**) and all other required software from Oracle.
- 3 Prepare **codebase-421-install.zip** for installation:
 - a. Create the directory **integra** at the root level on the installing computer, if it does not exist already.
 - b. Place **codebase-421-install.zip** in the **integra** directory.
 - c. Unzip **codebase-421-install.zip**. The subdirectory **codebase-421-install** is created.
 - d. Inside the **codebase-421-install** directory, there will be a directory named **lib_stage**. Move the following files into **lib_stage**:

jacob_18.zip
xapool-1.4.2.jar
jasperreports-1.2.8.jar
birt-runtime-2_1_1.zip
 - e. Run the following script in the **codebase-421-install** directory:

Unix/Linux users: preinstall.sh
Windows users: presinstall.bat
- 4 Close all command shell windows.
- 5 Open a new command shell window. (In Windows XP, click **Start** and select **Run...**; enter `cmd` in the **Open** field; click **OK**.)

- 6 Set the following environment variables temporarily on the installing computer:

ORACLE_HOME	Full path to the Oracle client described in “Before You Install: System requirements: Installing computer” above. For example, <code>set ORACLE_HOME=c:\oracle\oradbs8i</code>
JAVA_HOME	Full path to the Java Runtime Environment described in “Before You Install: System requirements: Installing computer” above. For example, <code>set JAVA_HOME=c:\Program Files\Java\j2re1.4.2_05</code>
CLASSPATH	Prepend the full path to the lib directory of the Java Runtime Environment described above. For example, <code>set CLASSPATH=%JAVA_HOME%\lib;%CLASSPATH%</code>

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

```
tnsping TNS-entry
```

...where:

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

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

- 8 Go to the **codebase-421-install** directory.
- 9 Launch the Integra Installer by issuing the command appropriate for the installing computer’s operating system:

Operating system	Issue this command
Unix/Linux	<code>install.sh options -f path</code>
Windows	<code>install options -f path</code>

...where *path* is `codebase-421-install.apf`

...and *options* are:

-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.
-d <code>level</code>	Sets the debug level. <code>level</code> is a value between 0 and 5. There is no space between "d" and <code>level</code> ; e.g., d1
-f <code>path</code>	Shown in the examples above. Used to specify the <code>path</code> 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	Stores all information entered by the user in a file for reuse in subsequent runs. The file is stored on the Integra Home instance, and can contain sensitive password information. To use this file in a subsequent run, use the same flag.
-x	Causes the installer to delete the file created by the -p option upon quitting installation.

For example: `install.sh -f codebase-421-install.apf`

- 10 Follow the Installer's step-by-step instructions.
- 11 Install all other software downloaded above, following the instructions that accompany the software.
- 12 Use Oracle's Enterprise Manager to restart the Oracle Applications server that hosts the Oracle Forms service used by Integra (choose **Restart All**). Typically, Enterprise Manager's URL is:

`http://server.domain:1810`

- 13 Proceed to the *Integra Codebase 4.2 SP1 Administration Guide* and configure Codebase 4.2 SP1.