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Installation Guide for Oracle Data Integrator
11g Release 1 (11.1.1)
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Oracle Fusion Middleware Installation Guide for Oracle Data Integrator 11g Release 1 (11.1.1)

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Primary Author: Lisa Jamen

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Preface

This guide provides information and instructions for installing, configuring, and troubleshooting Oracle Data Integrator and Oracle Data Profiling and Oracle Data Quality for Oracle Data Integrator.

- [Audience](#)
- [Documentation Accessibility](#)
- [Related Documents](#)
- [Conventions](#)

Audience

This guide is intended for administrators who are responsible for installing and configuring components of Oracle Data Integrator. It is assumed that readers are comfortable running some system administration operations, such as creating users and groups, adding users to groups, and installing operating system patches on the computer where your products will be installed. Users in UNIX systems who are installing need `root` access to run some scripts.

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<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

Related Documents

For more information, see the following manuals:

- *Oracle Fusion Middleware Installation Planning Guide*
- *Oracle Fusion Middleware Developer's Guide for Oracle Data Integrator*
- *Oracle Fusion Middleware Upgrade Guide for Oracle Data Integrator*
- *Oracle Fusion Middleware Connectivity and Knowledge Modules Guide for Oracle Data Integrator*
- *Oracle Fusion Middleware Knowledge Module Developer's Guide for Oracle Data Integrator*
- *Oracle Fusion Middleware Application Adapters Guide for Oracle Data Integrator*
- *Oracle Fusion Middleware Installation Guide for Oracle Data Profiling and Oracle Data Quality for ODI*
- *Oracle Fusion Middleware Upgrade Guide for Oracle Data Profiling and Oracle Data Quality for ODI*

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Part I

Installing Oracle Data Integrator

Part I contains the following chapters:

- [Chapter 1, "Installation Overview for Oracle Data Integrator"](#)
- [Chapter 2, "Installing Oracle Data Integrator"](#)
- [Chapter 3, "Configuring Oracle Data Integrator"](#)

Installation Overview for Oracle Data Integrator

This chapter provides an overview of the Oracle Data Integrator (ODI) installation process including a description of the installable components, pre and post-installation tasks, and process flow.

The chapter includes the following topics:

- [Section 1.1, "Oracle Data Integrator Applications"](#)
- [Section 1.2, "ODI Installation Types"](#)
- [Section 1.3, "Installation Roadmap"](#)
- [Section 1.4, "Topology Summary of ODI"](#)

1.1 Oracle Data Integrator Applications

Oracle Data Integrator includes the following applications:

- **Oracle Data Integrator Repository**

The Oracle Data Integrator Repository is composed of a Master Repository and one or more Work Repositories. Objects developed or configured through the user interfaces are stored in these repositories.

- **Oracle Data Integrator Studio**

Oracle Data Integrator Studio is used for administering the infrastructure (security and topology), reverse-engineering the metadata, developing projects, scheduling, operating and monitoring executions.

- **Oracle Data Integrator Standalone Agent**

The Standalone Agent is the run-time component of Oracle Data Integrator that executes the integration flows. It runs in a Java Virtual Machine and can be deployed where needed to run the flows.

Note: The ODI Standalone Agent includes command line scripts for managing scenarios and sessions and encoding passwords. For more information see [Section 1.4.2](#).

- **Java EE Components**

These components can be deployed in an application server. These include:

- Oracle Enterprise Manager Plugin for ODI and the Oracle Enterprise Manager Fusion Middleware Control

Oracle Enterprise Manager Fusion Middleware Control, with the Oracle Enterprise Manager plugin for ODI, can be used to monitor ODI resources (agents, repositories, ODI Console instances) and see their status, activities and notification. You must have both the Oracle Enterprise Manager Fusion Middleware Control and the Oracle Enterprise Manager Plugin for ODI deployed to monitor the ODI infrastructure.

- Public (SDK) Web Services

ODI comes with several run-time web services. These include the "Public Web Service" and the "Agent Web Service".

- * The Public Web Service is used for web service calls that do not involve an agent (listing contexts). The Public Web Service connects to the repository to retrieve a list of context and scenarios. This web service is deployed in a Java EE application server.

- * The Agent Web Service commands the Oracle Data Integrator Agent to start and monitor a scenario. Note that this web service is built into the Java EE or Standalone Agent.

- Oracle Data Integrator Console

This component is a web interface for run-time, monitoring and metadata browsing operations. It also contains an extension integrated into the Fusion Middleware Control. Oracle Data Integrator components can be monitored as a domain using this extension.

- Java EE Agent

Java EE Agent is the Java EE version of the run-time component of Oracle Data Integrator. The Java EE agent provides the same features as the standalone agent, but can also benefit from the features of an application server.

1.2 ODI Installation Types

The Oracle Data Integrator installer provides three installation options:

- Developer

The **Developer** installation includes the ODI Studio and the Oracle Data Integrator Software Development Kit (SDK).

Note that the **Developer** installation does not include the Standalone Agent or the scripts for managing sessions or scenarios from the command line. If a Standalone Agent will be needed, choose the **Standalone** install type in addition to the **Developer** install type.

- Standalone

The **Standalone** installation includes an Oracle Data Integrator standalone agent.

- Java EE

The **Java EE** installation includes the Java EE agent, Oracle Data Integrator Console, and Public Web Services.

See [Section 2.4, "Using the Installer for Oracle Data Integrator Content"](#) for more information about installing the different ODI installation types.

1.3 Installation Roadmap

The process of installing and configuring Oracle Data Integrator includes these high-level tasks:

1. Preparing your system environment for installation
2. Creating schemas for applications
3. Installing an Application Server and Oracle Fusion Middleware
4. Installing Oracle Data Integrator
5. Configuring Oracle Data Integrator
6. Performing Postinstallation Configuration
7. Verifying the Configuration

Figure 1-1 shows these steps in the installation process.

Figure 1-1 Roadmap for Installing and Configuring Oracle Data Integrator

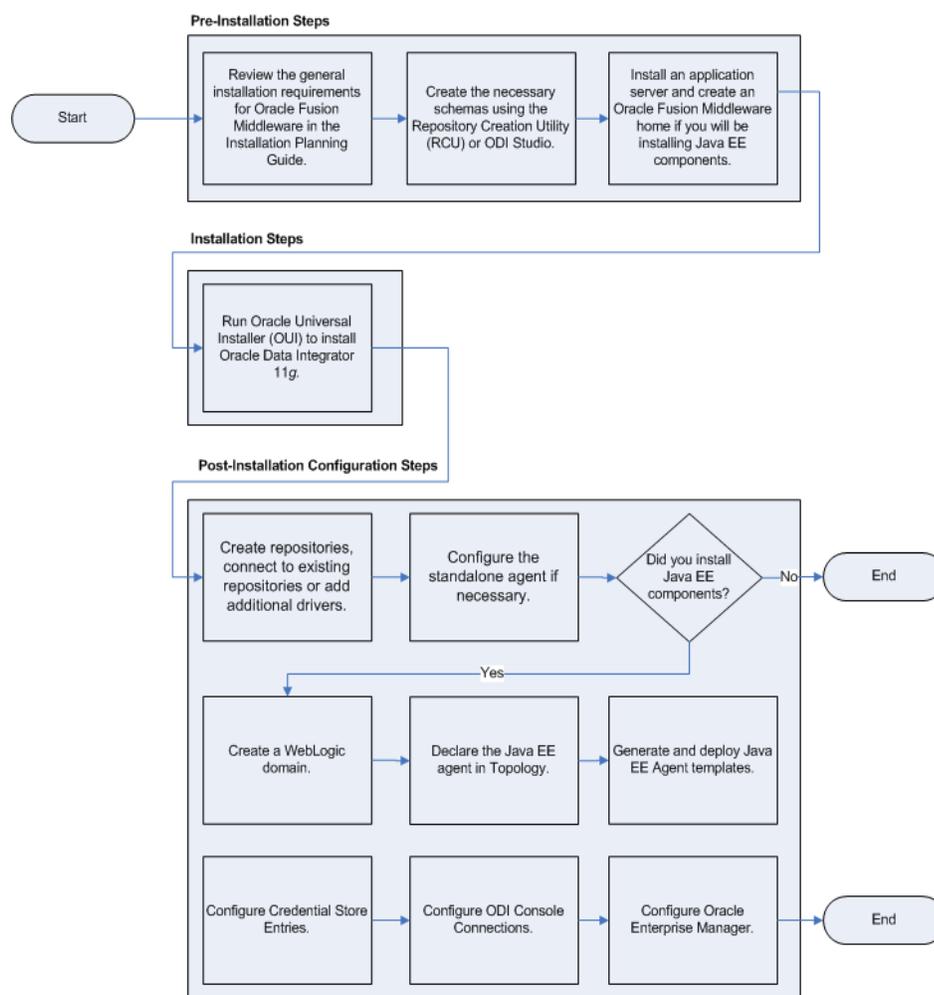


Table 1-1 describes the high-level tasks for installing and configuring Oracle Data Integrator. The table also provides information on where to get more details about each task.

Table 1-1 Tasks in the Oracle Data Integrator Installation Procedure

Task	Description	More Information
Complete the installation planning requirements	Prior to installation you must prepare your system environment for installation. Review the general installation requirements for Oracle Fusion Middleware, as well as any specific configuration requirements for Oracle Data Integrator.	For general planning information refer to the <i>Oracle Fusion Middleware Installation Planning Guide</i> . For system requirements information, go to: http://www.oracle.com/technology/software/products/ias/files/fusion_requirements.htm For Oracle Data Integrator-specific information, see the <i>Oracle Fusion Middleware Developer's Guide for Oracle Data Integrator</i>
Create the necessary schemas using the Repository Creation Utility (RCU) or ODI Studio.	The Oracle Repository Creation Utility (RCU) allows you to create and load a Master Repository and a Work Repository in a single database schema. The Oracle Data Integrator Studio can also be used to manually create the repository after installation.	Section 2.2, "Creating ODI Schemas with the Repository Creation Utility (RCU)" Note that RCU supports only the Oracle, Microsoft SQL Server and DB2 technologies. RCU only supports a single schema containing both the Master Repository and one Work Repository. Other technologies and configurations are supported by manually creating the repositories using the Oracle Data Integrator Studio after the installation phase. For more information, see Appendix F, "Creating Repositories with Oracle Data Integrator Studio"
Install Oracle WebLogic Server and create an Oracle Fusion Middleware home if you will be installing the ODI Java EE components.	Installing the WebLogic Server is not required to run ODI. The WebLogic Server (or another application server) is a prerequisite for using the Java EE components.	Oracle WebLogic Server installation instructions are provided in Section 2.3, "Installing Oracle WebLogic Server and Creating the Middleware Home" . Additional information is available in the <i>Oracle Fusion Middleware Installation Guide for Oracle WebLogic Server</i>
Run Oracle Universal Installer (OUI) to install Oracle Data Integrator 11g	The Oracle Universal Installer automates many of the ODI installation and configuration tasks.	Section 2.4, "Using the Installer for Oracle Data Integrator Content"

Table 1–1 (Cont.) Tasks in the Oracle Data Integrator Installation Procedure

Task	Description	More Information
Perform any post installation steps for ODI Studio, repositories and standalone agent.	After installing ODI you may need to manually create repositories, connect to repositories or add additional drivers. Depending on your installation type, you may also need to manually configure the standalone agent.	Section 3.2, "Configuring ODI Studio, Repositories, and the Standalone Agent"
Deploy Java EE components (if applicable)	If you installed Java EE components you will need to declare the Java EE agent in Topology. You may also need to create a WebLogic domain or generate and deploy Java EE Agent templates.	Section 3.3, "Configuring Java EE Components"
Perform any post-deployment configuration tasks for Java EE agent, Oracle Data Integrator Console, and Enterprise Manager (if applicable)	The Java EE Agent, Oracle Data Integrator Console and Enterprise Manager require manual post-deployment configuration tasks.	Section 3.3, "Configuring Java EE Components"

1.4 Topology Summary of ODI

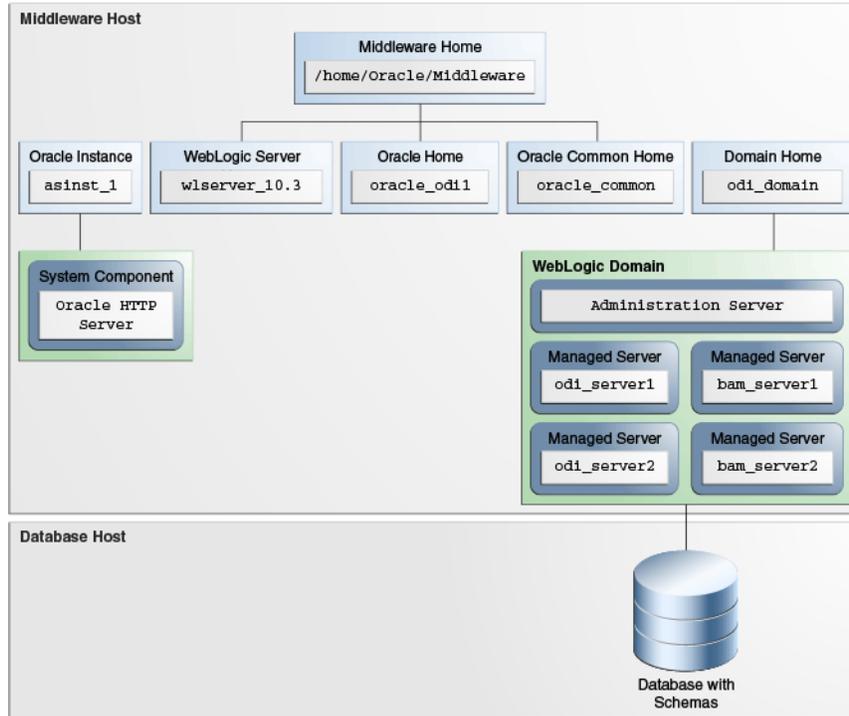
The installation topology of ODI will vary based on the components you have installed and configured. If, for example, you installed only the Standalone Agent, you will not have the directories associated with an Oracle WebLogic Server or Oracle Middleware Home. Note that the topology shown in this section assumes that an Oracle WebLogic Server was installed.

When you install an Oracle WebLogic Server for your Java EE components, the installer creates a Middleware home directory (MW_HOME) that contains the Oracle WebLogic Server home directory (WL_HOME) and an Oracle Common home directory (ORACLE_COMMON_HOME), which contains the binary and library files required for Fusion Middleware Control and Java Required Files (JRF).

When you install Oracle Data Integrator, an ODI Oracle home directory for the suite (ODI_ORACLE_HOME) is created under the Middleware home directory. The ODI Oracle home directory contains the binary and library files for Oracle Data Integrator.

When you configure Oracle Data Integrator to create an Oracle WebLogic Server domain, a domain directory is created in a directory you create within the MW_HOME.

Figure 1–2 Topology of an Oracle Data Integrator Installation with Oracle WebLogic Server



1.4.1 Contents of the 11g Installation Directory

The following table provides a few of the important Oracle Data Integrator 11g installation directories and sub-directories. Note that the installation folders you see will vary depending on the components you have installed.

Note: See [Appendix E.1, "Oracle Data Integrator Companion Disk Components"](#) for the locations of additional program files and directories.

Directory	Description
/bin	This directory contains the Upgrade Assistant
/cfgtoollogs	This directory contains configuration and installation log files
/oracledi	This directory contains the following: <ul style="list-style-type: none"> ■ /client (Oracle Data Integrator Studio) ■ /xml-reference (Knowledge Modules, Topology and Security metadata export files.) ■ /agent (Oracle Data Integrator Standalone Agent.)

Directory	Description
/oracledi/agent	This folder also includes other directories: <ul style="list-style-type: none"> ■ /bin (Command line scripts for managing the agent, scenarios and sessions. The scripts are listed in Section 1.4.2.) ■ /drivers (drivers for the Oracle Data Integrator Standalone Agent.)
/oracledi.common	This directory contains some of the libraries and files shared by Oracle Data Integrator components.
/oracledi.sdk	This directory contains the ODI Public API. Note that the libraries of this API are necessary for the run-time agent.
/setup	This directory contains components that can be manually installed.
/odi_misc	This directory contains some core libraries shared by the Oracle Data Integrator components. Drivers shipped with the product are in this folder.

1.4.2 Scripts and Tools

[Table 1–2](#) lists the scripts and tools provided in the `ODI_HOME/oracledi/agent/bin` directory. To launch a script from a command line, enter the name of the script to launch. Type `<script_name> -help` from the command line for the on-line help.

The extension for these scripts is `.bat` for Windows operating systems scripts and `.sh` for UNIX scripts.

Table 1–2 Oracle Data Integrator Scripts and Tools

File	Description
agent	Starts a standalone agent.
agent_<agent_name>	Starts the standalone agent <agent_name>. This is the agent that is automatically configured by the installer if you have selected this option. Example: If you created an agent named <code>agt_007</code> , a file called <code>agent_agt_007</code> is created in this folder.
agentstop	Stops a standalone agent.
encode	Encodes a password.
getsessionstatusremote	Retrieves the status of session via an agent built-in web service. This script is only available for UNIX operating systems.
odiparams	This configuration script contains the parameters for starting the other scripts. The parameters can be manually updated in the file.
odi_opmn_addagent	Add a standalone agent to OPMN.
odi_opmn_deleteagent	Removes a standalone agent from OPMN.
restartsession	Restarts a session.
startcmd	Starts an Oracle Data Integrator command.
startscen	Starts the execution of a scenario.

Table 1–2 (Cont.) Oracle Data Integrator Scripts and Tools

File	Description
<code>startscenremote</code>	Starts a scenario on a remote agent on its web service. This script is only available for UNIX operating systems.
<code>restartloadplan</code>	Restarts a load plan instance.
<code>startloadplan</code>	Starts a load plan.
<code>stoploadplan</code>	Stops a load plan instance execution.
<code>stopsession</code>	Stops a session execution.

Installing Oracle Data Integrator

This chapter describes how to install and configure Oracle Data Integrator. Post-installation configuration parameters are also provided.

The following topics are covered:

- [Section 2.1, "Preparing to Install"](#)
- [Section 2.2, "Creating ODI Schemas with the Repository Creation Utility \(RCU\)"](#)
- [Section 2.3, "Installing Oracle WebLogic Server and Creating the Middleware Home"](#)
- [Section 2.4, "Using the Installer for Oracle Data Integrator Content"](#)
- [Section 2.5, "Verifying the ODI Installation"](#)

2.1 Preparing to Install

Review the information in this section before you begin:

- [Reviewing System Requirements and Certification](#)
- [Installing and configuring a Supported Database](#)

2.1.1 Reviewing System Requirements and Certification

Before installing any Oracle Data Integrator (ODI) components, you should read the system requirements and certification documentation to ensure that your environment meets the minimum installation requirements. Both of these documents are available on Oracle Technology Network (OTN).

The system requirements document covers information such as hardware and software requirements, minimum disk space and memory requirements, and required system libraries, packages, or patches:

<http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html>

Note: Though not expressly documented in the system requirements document, it is important to note that ODI is not supported on cluster installations.

The certification document covers supported installation types, platforms, operating systems, databases, JDKs, and third-party products:

http://www.oracle.com/technology/software/products/ias/files/fusion_

[certification.html](#)

2.1.2 Installing and configuring a Supported Database

For the latest information about supported databases, visit the following URL:

http://www.oracle.com/technology/software/products/ias/files/fusion_certification.html

2.2 Creating ODI Schemas with the Repository Creation Utility (RCU)

This section provides a brief overview of using the Repository Creation Utility (RCU). For more information, for detailed information, see *Oracle Fusion Middleware Repository Creation Utility User's Guide*.

Oracle Data Integrator stores information in a repository that is stored in a database schema. The Repository Creation Utility (RCU) is able to create the schema and the repository in the database. RCU supports Oracle, Microsoft SQL Server and IBM DB2, and supports the installation of a Master Repository and Work Repositories into a single schema.

Note: The database user name should be DBA or SYSDBA when using RCU to create repositories.

If RCU is used with an Oracle database, this user must have SYSDBA privileges to create ODI Master and Work repositories.

You can also use ODI Studio to manually create repositories. See [Appendix F, "Creating Repositories with Oracle Data Integrator Studio"](#).

Caution: Due to the intensive communication that exists between ODI components and the repositories, Oracle recommends that you co-locate the repositories and the other ODI components on the same LAN, and not on remote sites.

Follow these instructions to create the schemas using RCU:

1. Start RCU from the `bin` directory:

- On UNIX operating systems:

```
./rcu
```

- On Windows operating systems:

```
rcu.bat
```

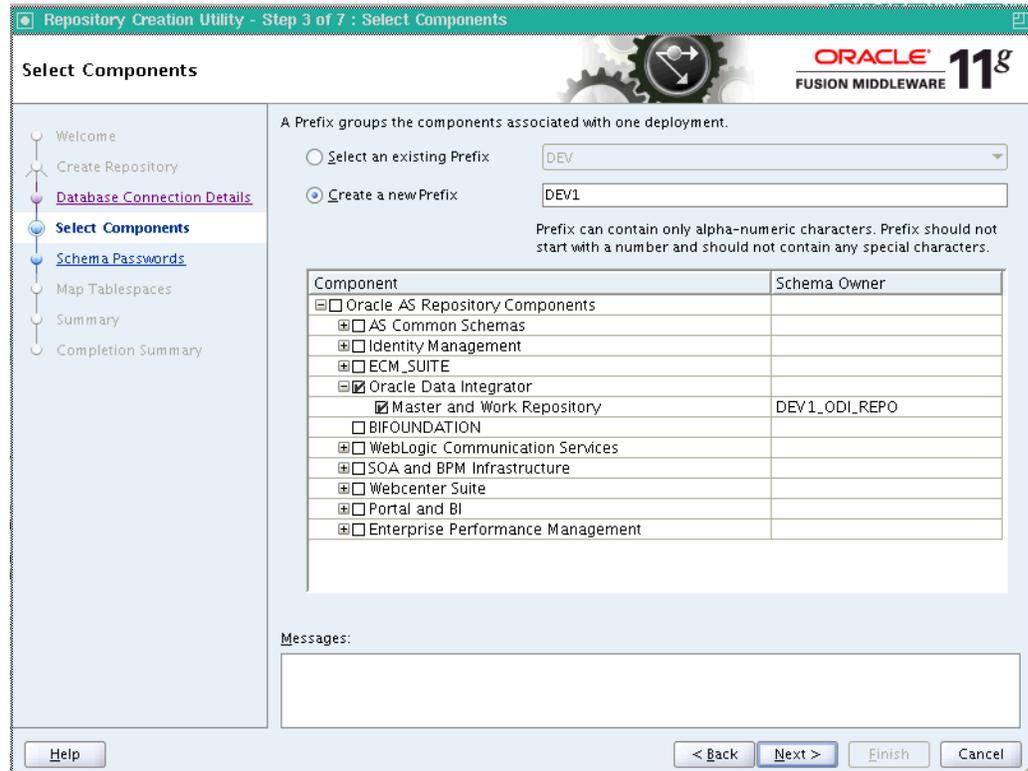
You can also download a `.zip` file containing RCU from Oracle Technology Network (OTN):

<http://www.oracle.com/technology/>

2. Provide the required information on each of the screens as described in "Repository Creation Utility Screens" in the *Oracle Fusion Middleware Repository Creation Utility User's Guide*.

- On the **Select Components** screen, select the components whose schemas you want to install. For Oracle Data Integrator, expand Oracle Data Integrator and select Master and Work Repository as shown in [Figure 2-1](#). The Select Components screen is described in detail in the *Oracle Fusion Middleware Repository Creation Utility User's Guide*.

Figure 2-1 Repository Creation Utility Select Components Screen



- On the **Custom Variables** screen, provide the following information as shown in [Figure 2-2](#):

Component Variable	Description
Master Repository ID	A specific ID for the new Master Repository. Master Repository ID values must be between 0 and 899. Default value is 001.
Supervisor Password	Password of the supervisor user. You must confirm this password on the following line.

Component Variable	Description
Work Repository Type	<p>Specify how the Work Repository will be used:</p> <ul style="list-style-type: none"> Use Development (D) for creating a development repository. This type of repository allows management of design-time objects such as data models and projects (including interfaces, procedures, etc.) A development repository also includes the run-time objects (scenarios and sessions). This type of repository is suitable for development environments. D is the default work repository type. Use Execution (E) for creating an execution repository: This type of repository only includes run-time objects (scenarios, schedules and sessions). It allows launching and monitoring of data integration jobs in Operator Navigator. Such a repository cannot contain any design-time artifacts. Designer Navigator cannot be used with it. An execution repository is suitable for production environments.
Work Repository ID	A specific ID for the new Work Repository. Default value is 001.
Work Repository Name	A unique name for the Work Repository. Default is WORKREP.
Work Repository Password	Provide a password for the Work Repository.

Note: This version of Repository Creation Utility (RCU) does not perform extensive validation on the user entries of Repository ID and Repository Type.

Master Repository ID values must be between 0 and 899 and Work Repository ID values must be between 0 and 899. Repository Type value must be either **D** (Development) or **E** Execution .

When incorrect values are entered for either of these, RCU fails during the repository creation process with the following error:

```
RCU-6135: Error while trying to execute Java action
```

If you receive this error, go back to the [Repository Creation Utility Custom Variables Screen](#) and provide the correct values.

Figure 2–2 Repository Creation Utility Custom Variables Screen

Repository Creation Utility - Step 5 of 8 : Custom Variables

Custom Variables

Enter value for the following custom variables.

Component	Custom Variable	Value
Master and Work Reposi...	Master Repository ID(001)	
	Supervisor Password	*****
	Confirm Supervisor Password	*****
	Work Repository Type: (D) Devel...	
	Work Repository ID(001)	
	Work Repository Name (WORKREP)	
	Work Repository Password	*****
	Confirm Work Repository Password	*****

Messages:

Help < Back Next > Finish Cancel

5. Click **Next** to continue through the remaining screens as described in "Repository Creation Utility Screens" in the *Oracle Fusion Middleware Repository Creation Utility User's Guide*.

2.3 Installing Oracle WebLogic Server and Creating the Middleware Home

The Oracle Data Integrator Java EE components require an Oracle WebLogic Server on your system. If you want to use Oracle Data Service Integrator in a Java EE deployment, you must install and configure the Oracle WebLogic server.

For information on installing the Oracle WebLogic Server, see "Preparing for Installation" and "Running the Installation Program in Graphical Mode" in the *Oracle Fusion Middleware Installation Guide for Oracle WebLogic Server*.

2.4 Using the Installer for Oracle Data Integrator Content

This section contains information and instructions for installing Oracle Data Integrator:

- [Section 2.4.1, "Starting the Installer"](#)
- [Section 2.4.2, "Following the Installation Instructions for the "Developer" Installation"](#)
- [Section 2.4.3, "Following the Installation Instructions for the "Standalone" Installation"](#)
- [Section 2.4.4, "Following Installation Instructions for the "Java EE" Installation"](#)
- [Section 2.5, "Verifying the ODI Installation"](#)

Note: If you are installing on a UNIX system for the first time, you may be asked to run the `ORACLE_HOME/oracleRoot.sh` script as `root` user to create all of the necessary installation directories.

2.4.1 Starting the Installer

The Oracle Universal Installer requires a Java Development Kit (JDK) which provides the Java run-time environment (JRE) and tools for compiling and debugging Java applications. You must specify the directory that contains the software for the Sun JDK if it is installed with your software.

Tip: If you installed Oracle WebLogic Server (Section 2.3, "Installing Oracle WebLogic Server and Creating the Middleware Home"), a JRE was installed on your system. You can use this location (the location of the JRE directory) to start the installer.

On UNIX operating systems, the default location for the JRE is `MW_HOME/jdk16x`, where `MW_HOME` is the Middleware Home directory and `jdk1.6_x` is the complete filename of the installed JDK.

On Windows operating systems, the default location for the JRE is `MW_HOME\jdk16x`, where `MW_HOME` is the Middleware Home directory and `jdk1.6_x` is the complete filename of the installed JDK.

On 64-bit platforms, the JRE location is the `JAVA_HOME` you used to install Oracle WebLogic Server.

For more information, refer to *Oracle Fusion Middleware Installation Guide for Oracle WebLogic Server*.

To start the installer, navigate to the installation directory (`/Disk1`) on your local machine and run the following command:

- On UNIX operating systems:

```
./runInstaller -jreLoc JRE_LOCATION
```

- On Windows operating systems:

```
setup.exe -jreLoc JRE_LOCATION
```

You must specify the absolute path to your `JRE_LOCATION`; relative paths will not work. Also note that there should be **no spaces** in the JDK path as shown in the example below:

```
C:\Progra~1\Java\jrockit-jdk1.6.0_24-R28.2.0-4.0.1
```

Note: The minimum JDK required for Oracle Data Integrator is JDK 1.6. Refer to the Oracle Fusion Middleware Certification documentation to see the JDKs supported for your system:

http://www.oracle.com/technology/software/products/ias/files/fusion_certification.html

2.4.2 Following the Installation Instructions for the "Developer" Installation

Follow the instructions in [Table 2-1](#) to install and configure Oracle Data Integrator when the Developer Installation is selected.

If you need additional help with any of the installation screens, refer to [Appendix A, "Installation Screens for ODI"](#) or click **Help** to access the online help.

Table 2–1 Developer Installation Flow

Screen	When This Screen Appears	Description
Welcome Screen	Always	This screen provides a link to the latest product release notes. Review this information before you begin the installation.
Install Software Updates Screen	Always	Select the method you want to use for obtaining software updates, or select Skip Software Updates if you do not want to get updates. If updates are found, the installer will automatically apply them at this point. Some updates will require the installer to automatically be restarted; if this happens, the Software Updates screen will not be seen the next time.
Select Installation Type Screen	Always	Select Developer Installation . By default, ODI Studio (with local agent) is selected. Oracle recommends that you also select the ODI SDK with the Developer Installation.
Prerequisite Checks Screen	Always	The installer checks for system prerequisites such as operating system certification, recommended operating system packages, and physical memory. If there is a problem, a short error message appears and you will have an opportunity to correct the issue before continuing the installation.
Specify Installation Location Screen	Always	This screen allows you to specify the absolute path for the Oracle home location (referred to later in this guide as ODI_HOME). NOTE - The specified directory must be an empty directory or an existing Oracle Data Integrator home location.
Repository Configuration Screen	Always	This screen allows you to select whether you want to configure the Oracle Data Integrator Studio and the Standalone Agent with an existing Master and Work Repository pair. NOTE - If you choose to Skip Repository Configuration , you will have to configure the Oracle Data Integrator Studio and Standalone Agent manually as described in Section 3.2 .
Master Repository Screens	Only if Configure with existing Master and Work Repositories is selected on the Repository Configuration Screen .	This screen allows you to specify the connection string to the database that hosts the Master Repository and the database user name and password
Supervisor User Details Screen	Only if Configure with existing Master and Work Repositories is selected on the Repository Configuration Screen .	This screen allows you to specify the password for the ODI SUPERVISOR user.
Specify Work Repository Details Screen	Only if Configure with existing Master and Work Repositories is selected on the Repository Configuration Screen .	This screen allows you to select an existing Work Repository from the list.

Table 2–1 (Cont.) Developer Installation Flow

Screen	When This Screen Appears	Description
Installation Summary Screen	Always	This screen allows you to verify the installation options you selected. Click Install to begin the installation.
Installation Progress Screen	Always	This screen allows to see the progress of the installation.
Configuration Progress Screen	Always	This screen allows you to see the progress of any post-installation configuration tasks you may have selected.
Installation Completed Screen	Always	Click Save to save your configuration information to a file. This information includes port numbers, installation directories, disk space usage, URLs, and component names which you may need to access at a later time. After saving your configuration information, click Finish to dismiss the installer.

2.4.3 Following the Installation Instructions for the "Standalone" Installation

Follow the instructions in [Table 2–2](#) to install and configure Oracle Data Integrator when the Standalone Installation is selected.

If you need additional help with any of the installation screens, refer to [Appendix A, "Installation Screens for ODI"](#) or click **Help** to access the online help.

Table 2–2 Standalone Agent Installation Flow

Screen	When This Screen Appears	Description and Action Required
Welcome Screen	Always	This screen provides a link to the latest product release notes. Review this information before you begin the installation.
Install Software Updates Screen	Always	Select the method you want to use for obtaining software updates, or select Skip Software Updates if you do not want to get updates. If updates are found, the installer will automatically apply them at this point. Some updates will require the installer to automatically be restarted; if this happens, the Software Updates screen will not be seen the next time.
Select Installation Type Screen	Always	Select Standalone Installation . This installs the ODI Standalone Agent and the command line scripts.
Prerequisite Checks Screen	Always	The installer checks for system prerequisites such as operating system certification, recommended operating system packages, and physical memory. If there is a problem, a short error message appears and you will have an opportunity to correct the issue before continuing the installation.
Specify Installation Location Screen	Always	Enter the absolute path for the Oracle home location (referred to later in this guide as ODI_HOME). NOTE - The specified directory must be an empty directory or an existing Oracle Data Integrator home location.

Table 2–2 (Cont.) Standalone Agent Installation Flow

Screen	When This Screen Appears	Description and Action Required
Repository Configuration Screen	Always	Select whether you want to configure with a connection to existing Master and Work Repositories or skip the repository configuration. NOTE - If you choose to Skip Repository Configuration, you can manually edit the <code>odiparams</code> configuration file to configure the repository connection once the installation is complete.
Master Repository Screens	Only if Configure with existing Master and Work Repositories is selected on the Repository Configuration Screen.	Specify the connection string to your database and the database user name and password.
Supervisor User Details Screen	Only if Configure with existing Master and Work Repositories is selected on the Repository Configuration Screen.	Specify the password for the ODI Supervisor user. The default user name is <code>SUPERVISOR</code> .
Specify Work Repository Details Screen	Only if Configure with existing Master and Work Repositories is selected on the Repository Configuration Screen.	Select an existing Work Repository from the list.
Specify Agent Details Screen	Only if Standalone Agent is selected on the Select Installation Type Screen and Configure with existing Master and Work Repositories is selected on the Repository Configuration Screen.	Enter the Agent Name and Agent Port number. The name cannot be the same as another agent already declared in the topology. NOTE - Agent Name can be 5 to 30 characters long, must begin with an alphabetic character, and may contain only alphanumeric characters and underscores (_).
Installation Summary Screen	Always	Verify the information on this screen. Click Install to begin the installation.
Installation Progress Screen	Always	This screen allows to see the progress of the installation.
Configuration Progress Screen	Only if Configure with existing Master and Work Repositories is selected on the Repository Configuration Screen	This screen allows you to see the progress of any post-installation configuration tasks you may have selected.
Installation Completed Screen	Always	Click Save to save your configuration information to a file. This information includes port numbers, installation directories, disk space usage, URLs, and component names which you may need to access at a later time. After saving your configuration information, click Finish to dismiss the installer.

2.4.4 Following Installation Instructions for the "Java EE" Installation

Follow the instructions in [Table 2–3](#) to install and configure Oracle Data Integrator when the Java EE Installation is selected.

If you need additional help with any of the installation screens, refer to [Appendix A, "Installation Screens for ODI"](#) or click **Help** to access the online help.

Table 2–3 Java EE Installation Flow

Screen	When This Screen Appears	Description and Action Required
Welcome Screen	Always	This screen provides a link to the latest product release notes. Review this information before you begin the installation.
Install Software Updates Screen	Always	Select the method you want to use for obtaining software updates, or select Skip Software Updates if you do not want to get updates. If updates are found, the installer will automatically apply them at this point. Some updates will require the installer to automatically be restarted; if this happens, the Software Updates screen will not be seen the next time.
Select Installation Type Screen	Always	Select Java EE Installation . This installation type includes the Java EE agent, Oracle Data Integrator Console, and Public Web Services.
Prerequisite Checks Screen	Always	The installer checks for system prerequisites such as operating system certification, recommended operating system packages, and physical memory. If there is a problem, a short error message appears and you will have an opportunity to correct the issue before continuing the installation.
Specify Installation Location Screen	Always	Specify the Middleware Home and Oracle home location (Oracle home is referred to later in this guide as <i>ODI_HOME</i>). The Oracle Data Integrator home location must be inside the Oracle Middleware Home directory and the WebLogic Server must already be installed in the same Oracle Middleware Home. For more information about these directories, see "Oracle Fusion Middleware Directory Structure and Concepts" in <i>Oracle Fusion Middleware Installation Planning Guide</i> .
Application Server Screen	Always	This screen allows you to select the application server you want to use for this installation. <ul style="list-style-type: none"> ■ If the installer detects a Middleware home with Oracle WebLogic Server installed, then this is the application server that will be used. ■ If the installer detects a Middleware home without an Oracle WebLogic Server installed, you must select one of the application server options and then provide its location in the Application Server Location field. ■ If the installer does not detect a Middleware home directory, the "WebLogic Server" option will be inactive. You must select "WebSphere" and then provide the location of your IBM WebSphere in the Application Server Location field.
Installation Summary Screen	Always	Verify the information on this screen. Click Install to begin the installation.
Installation Progress Screen	Always	This screen allows to see the progress of the installation.
Installation Completed Screen	Always	Click Save to save your configuration information to a file. This information includes port numbers, installation directories, disk space usage, URLs, and component names which you may need to access at a later time. After saving your configuration information, click Finish to dismiss the installer.

2.5 Verifying the ODI Installation

After you complete the installation, you can verify it by successfully completing the following tasks:

2.5.1 Starting the Administration Server

When you finish creating your domain, you can start the Administration Server. To start an Administration Server that you have created, invoke the following:

- On UNIX operating systems:

```
DOMAIN_NAME/bin/startWebLogic.sh
```

- On Windows operating systems:

```
DOMAIN_NAME\bin\startWebLogic.cmd
```

where *DOMAIN_NAME* is the name of the directory in which you located the domain, typically *MW_HOME\user_projects\domains\DOMAIN_NAME*.

On Windows operating systems, the Configuration Wizard creates a shortcut on the Start menu to start the Administration Server that you created (**User Projects > DOMAIN_NAME > Start Admin Server for WebLogic Domain**).

If the server prompts you to enter a username and password, enter the name of a WebLogic Server user who has permission to start servers. For more information, see "Provide User Credentials to Start and Stop Servers" in *Oracle Fusion Middleware Managing Server Startup and Shutdown for Oracle WebLogic Server*.

NOTE: In a development environment, it is usually sufficient to start an Administration Server and deploy your applications directly on the Administration Server. In a production environment, you typically create Managed Servers to run applications.

For more information on the various methods you can use to start the Administration Server, see "Starting and Stopping Servers" in *Oracle Fusion Middleware Managing Server Startup and Shutdown for Oracle WebLogic Server*.

2.5.2 Starting the Managed Server

To start the Managed Server, run the `startManagedWebLogic.sh` (on UNIX operating systems) or `startManagedWebLogic.cmd` (on Windows operating systems) script in the `/bin` directory inside the directory where you created your domain. These managed servers must be started from the command line.

This command also requires that you specify a server name. The server that needs to be started is:

```
odi_server1 (Oracle Data Integrator Server)
```

For example, to start ODI Server on a UNIX operating system:

```
MW_HOME/user_projects/domains/domain_
name/bin/startManagedWebLogic.sh odi_server1
```

On Windows operating systems:

```
MW_HOME\user_projects\domains\domain_
name\bin\startManagedWebLogic.cmd odi_server1
```

Before the managed server is started, you will be prompted for the WebLogic Server user name and password. These were provided on the **Configure Administrator**

Username and Password Screen in the Configuration Wizard. See *Oracle Fusion Middleware Creating Domains Using the Configuration Wizard* for more information.

2.5.3 Reviewing Installation Log Files

The installer writes logs files to the *OraInventory/log* directory (on UNIX operating systems) or *Oracle_Inventory_Location\logs* (on Windows operating systems) directory. On UNIX systems, if you do not know the location of your Oracle Inventory directory, you can find it in the *oraInst.loc* file in the following directories (default locations):

- Linux: <ODI_HOME>/oraInst.loc
- HP-UX and Solaris: <ODI_HOME>/oraInst.loc
- Windows operating systems: C:\Program Files\Oracle\Inventory\logs

2.5.4 Checking the Directory Structure

The contents of your ODI installation vary based on the options you selected during the installation. The primary directories are listed in [Section 1.4.1, "Contents of the 11g Installation Directory"](#). Review the directories to ensure that all of the components were installed correctly.

Configuring Oracle Data Integrator

After the installation is complete, you may need to configure one or more of the following components before using certain features of Oracle Data Integrator:

- [Section 3.1, "Configuring a WebLogic Domain"](#)
- [Section 3.2, "Configuring ODI Studio, Repositories, and the Standalone Agent"](#)
- [Section 3.3, "Configuring Java EE Components"](#)

3.1 Configuring a WebLogic Domain

You must configure managed servers in your ODI domain to work with the Oracle Data Integrator Java EE components. The Oracle Fusion Middleware Configuration Wizard can be used to automate many of these tasks. Once the domain has been configured, see ["Verifying the ODI Installation"](#) to verify that the domain has been properly configured.

Note: If ODI will be used in a clustered or high availability configuration, see "High Availability for Oracle Data Integrator" in the *Oracle Fusion Middleware High Availability Guide* for additional configuration information.

To start the Configuration Wizard in graphical mode from a Windows command prompt or on UNIX systems:

1. Log in to the system on which the product is installed.
2. Open an MS-DOS command prompt window (on Windows operating systems) or a command shell (on UNIX operating systems).
3. Go to the following directory:
 - On UNIX operating systems:
`ODI_HOME/common/bin`
 - On Windows operating systems:
`ODI_HOME\common\bin`
4. Execute the following command:
 - On UNIX operating systems:
`sh config.sh`
 - On Windows operating systems:

config.cmd

5. Provide the required information on the Oracle Fusion Middleware Configuration Wizard as described in *Oracle Fusion Middleware Creating Domains Using the Configuration Wizard*.

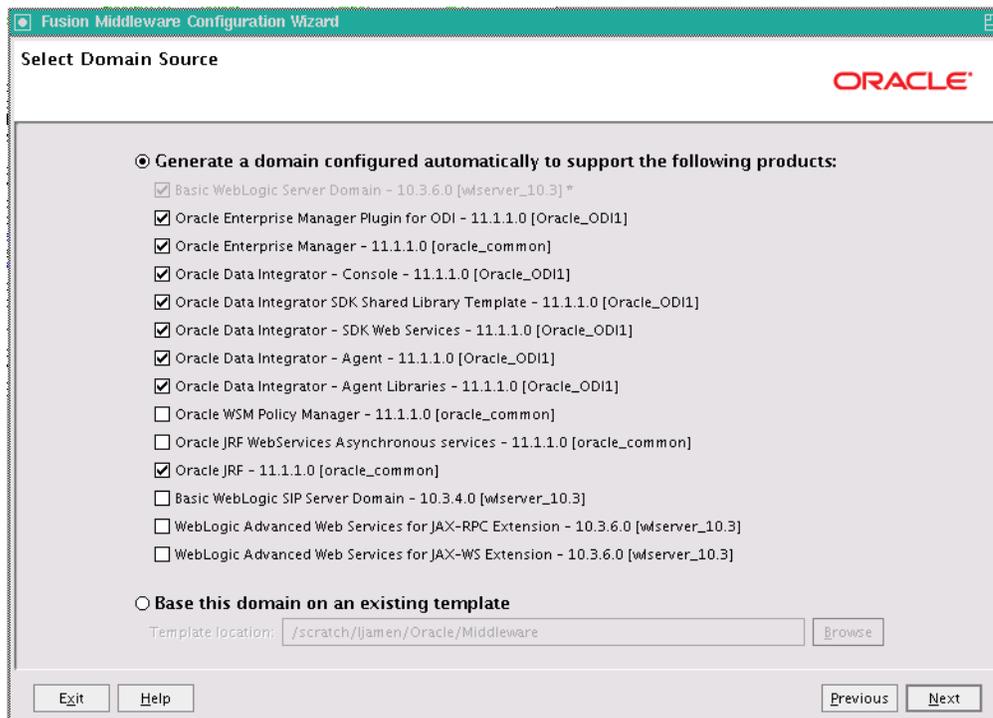
The **Select Domain Source** screen shown in [Figure 3–1](#) lists the ODI-specific components that may be configured based on your installation. You may also choose to **Extend an Existing Domain** with Oracle Data Integrator components. When you extend an existing domain, only those products which have not been configured in the domain will be available.

Caution: You must deploy the ODI Agent Libraries Template in a domain before deploying the ODI Dynamic Agent Template.

You will only have to deploy the Agent Libraries once in each domain. The Configuration Wizard will automatically recognize that the template has been deployed and then you can deploy any number of Dynamic Agent Templates in the domain.

For more information on the ODI templates, see the *Oracle Fusion Middleware Domain Template Reference*.

Figure 3–1 Fusion Middleware Configuration Wizard Select Domain Source Screen



Oracle Data Integrator Products	Dependency
Oracle Enterprise Manager Plugin for ODI	Oracle Enterprise Manager must be installed in the same domain.
Oracle Data Integrator SDK Web Services	Oracle JRF
Oracle Data Integrator Console	Oracle JRF

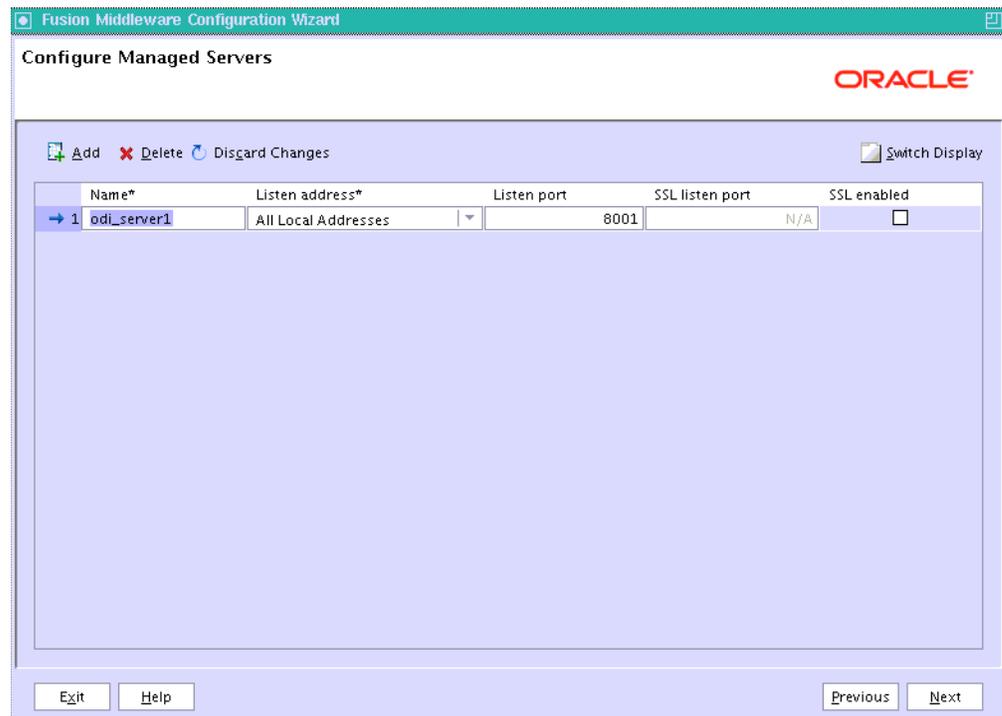
Oracle Data Integrator Products	Dependency
Oracle Data Integrator Agent	Oracle JRF, Deployed Agent Libraries
Oracle Data Integrator Agent Libraries	Oracle JRF
Oracle Data Integrator SDK Shared Library Template	Oracle JRF

NOTE: The version for the template is 11.1.1.0. The template version does not change for patchset releases.

Note: If ODI Java EE components were installed, they automatically appear in the Oracle Fusion Middleware Configuration Wizard when launched to create a new domain. If dependencies exist, they are managed by the Oracle Fusion Middleware Configuration Wizard automatically.

You must configure managed servers in your ODI domain to work with the Oracle Data Integrator Java EE components as shown in [Figure 3–2](#). If you plan to use Oracle Enterprise Manager console to manage your ODI domain, use the default listening port of 8001. Listening ports other than 8001 will not load correctly from the Enterprise Manager Console.

Figure 3–2 ODI Managed Server Configuration



For more information on creating and configuring a WebLogic domain, see *Oracle Fusion Middleware Creating Domains Using the Configuration Wizard*.

3.2 Configuring ODI Studio, Repositories, and the Standalone Agent

The following manual steps may be required for specific component installations:

- [Section 3.2.1, "Adding Additional Drivers and Open Tools"](#)
- [Section 3.2.2, "Creating Repositories Manually"](#)
- [Section 3.2.3, "Connecting to Existing Repositories Manually"](#)
- [Section 3.2.4, "Changing the Language Used in ODI Studio"](#)
- [Section 3.2.5, "Configuring the Standalone Agent Manually"](#)
- [Section 3.2.6, "Starting the Standalone Agent"](#)

3.2.1 Adding Additional Drivers and Open Tools

ODI installation includes a set of DataDirect drivers for the following technologies: Oracle, Hypersonic SQL, SQL Server, Sybase ASE, and DB2 UDB. If additional drivers and open tools are needed, they must be added to the Standalone Agent and the ODI Studio in the following directories:

- On UNIX/Linux operating systems:

```
$HOME/.odi/oracledi/userlib
```

This folder contains the `additional_path.txt` file that allows you to declare additional files or folders outside of the `/userlib` directory from which the ODI Studio acquires its libraries and drivers. Note that this folder is created after you launch ODI Studio for the first time.

Standalone Agent

```
ODI_HOME/oracledi/agent/drivers/
```

- On Windows operating systems:

```
%APPDATA%\odi\oracledi\userlib
```

`%APPDATA%` is the Windows Application Data directory for the user (usually `C:\Documents and Settings\<user>\Application Data`). Note that this folder is created after you launch ODI Studio for the first time.

Standalone Agent

```
ODI_HOME\oracledi\agent\drivers
```

Note: The ODI 11g installation does not include JDBC drivers for the PostgreSQL database. To use PostgreSQL, you must download `postgresql-8.4-701.jdbc4.jar` from <http://jdbc.postgresql.org/download.html> and then follow the instructions above.

3.2.2 Creating Repositories Manually

If repository creation was not possible through RCU, due to unsupported technology or repository topology, use ODI Studio to create and configure repositories.

For detailed instructions see [Appendix F, "Creating Repositories with Oracle Data Integrator Studio"](#).

3.2.3 Connecting to Existing Repositories Manually

If the repository connections were not configured during installation, use ODI Studio to create the connections to the repositories.

For detailed instructions see [Appendix F, "Creating Repositories with Oracle Data Integrator Studio"](#).

3.2.4 Changing the Language Used in ODI Studio

You can change the language that is used by ODI Studio by editing the `odi.conf` file as described below:

1. Open the `odi.conf` file for editing. The file is located in the following directory:

```
ODI_HOME\studio\oracledi-studio\oracledi\client\odi\bin
```

2. Add the following lines to the `odi.conf` file. (Note that this example shows the modification for US English):

```
AddVMOption -Duser.language=en
```

```
AddVMOption -Duser.region=US
```

Make sure that you have installed the appropriate system fonts to support your language change if necessary.

Note: If you are changing the language to Japanese, use `LANG=ja_JP.usjis` instead of `LANG=ja_JP.utf8` to avoid issues with truncating text.

3.2.5 Configuring the Standalone Agent Manually

During the Standalone Agent installation, the agent is pre-configured to connect to the existing repository. If the Skip Repository Configuration option was selected on the Repository Configuration screen, then the agent is installed but not configured.

See Also: [Appendix H, "OPMN Configuration for Standalone Agent"](#).

1. Connect to the Master Repository and define a physical agent in the topology for the standalone agent, with the following information:
 - **Name** - Name of the physical agent.
 - **Host** - Name of the host where the standalone agent will be started.
 - **Port** - Port on this host where the standalone agent will be started. Provide a port number between 1024 and 65535 that is not currently being used by any other Oracle home. This port defaults to 20910.
 - **Web Application Context:** `oraclediagent` (This parameter cannot be changed for a standalone agent.)

See Also: For detailed instruction on declaring an agent in the topology, refer to "Creating a Physical Agent" in *Oracle Fusion Middleware Developer's Guide for Oracle Data Integrator*.

2. Configure the agent manually by editing the `odiparams.bat/sh` file to point to the correct repository. The `odiparams` file is pre-configured if you installed your standalone agent using Oracle Universal Installer and selected to configure a repository connection during installation. See [Table 3-1](#) for the list of these parameters.

Table 3-1 Repository Connection Information

Parameter	Description
ODI_MASTER_DRIVER	JDBC driver used to connect the Master Repository.
ODI_MASTER_URL	JDBC URL used to connect the Master Repository.
ODI_MASTER_USER	Database account used to connect the Master Repository.
ODI_MASTER_ENCODED_PASS	Database account password. The password must be encoded with the <code>encode.[sh bat]</code> <code><password></code> command.
ODI_SECU_WORK_REP	Name of the Work Repository to connect to. This Work Repository is the default repository into which the scenarios are started.
ODI_SUPERVISOR	Name of an ODI supervisor user. This Supervisor user is used by the agent to connect the Master Repository.
ODI_SUPERVISOR_ENCODED_PASS	This user's password. The password must be encoded with the <code>encode.[sh bat]</code> <code><password></code> command.
ODI_USER	Name of an ODI user used to start scenarios. This user's credentials are used when starting a scenario from a command line.
ODI_ENCODED_PASS	This ODI user password
ODI_CONNECTION_RETRY_COUNT	The number of retries to establish the connection in the event that a repository connection fails. If set to 0, no retry will be performed. Default is 10. NOTE: The <code>RETRY</code> parameters allow the agent to continue sessions if the repository fails and is temporarily unavailable. This scenario applies primarily to Oracle RAC configurations.
ODI_CONNECTION_RETRY_DELAY	Time in milliseconds between repository connection retries. Default is 1000.

The following example shows a modified `odiparams.bat/sh` file:

```
ODI_MASTER_DRIVER=oracle.jdbc.driver.OracleDriver
ODI_MASTER_URL=jdbc:oracle:thin:@ours:1521:ORA9
ODI_MASTER_USER=ODI_11G
ODI_MASTER_ENCODED_PASS=gxfpqkz074jeaCpL4XSEFzxoJ8E0p
ODI_SECU_WORK_REP=WORKREP
ODI_SUPERVISOR=SUPERVISOR
ODI_SUPERVISOR_ENCODED_PASS=fJya.vR5kvNcu9TtV,jVZEt
```

See Also: For more information on how to work with a standalone agent, a Java EE agent and how to handle load balancing, see "Managing Agents" in the *Oracle Fusion Middleware Developer's Guide for Oracle Data Integrator*.

3.2.6 Starting the Standalone Agent

Once the standalone agent has been defined in Topology, it can be started and used to execute scenarios on predefined schedules or on demand.

To launch a standalone agent:

1. Change directory to the `/agent/bin` directory of the Oracle Data Integrator Agent.
2. Enter the following command to start the agent.
 - On UNIX system:


```
./agent
```
 - On Windows system:


```
agent.bat
```

Agent Configuration Parameters

Table 3–2 lists the different parameters that allow the agent to be configured. The parameters are prefixed by the "-" character and the possible values are preceded by the "=" character. When entering the command, consider the operating system specific syntax of the delimiters.

Table 3–2 Agent Configuration Parameters

Parameters	Description
<code>-PORT=<port></code>	Port on which the agent is listening. Default value is 20910 . This port should exactly match the port specified in the physical agent definition in the topology.
<code>-NAME=<agent name></code>	This is the name of the physical agent used. This name should match the name of the physical agent as defined in the topology. If this parameter is not specified, the agent starts with the default name OracleDIAgent .
<code>-JMXPORT=<jmx_port></code>	JMX agent port number. The agent listens on this port for JMX request to provide its metrics. Default value is the listening port + 1000. For example, if <code><port>=20910</code> then <code><jmx_port>=21910</code> .

For example, on UNIX, the following command launches the standalone agent declared in the repository as `agent_001` on the port 20300.

```
./agent.sh -PORT=20300 -NAME=agent_001
```

WARNING: On Windows platforms, it is necessary to "delimit" the command arguments containing "=" signs or spaces, by using double quotes. For example:

```
agent.bat "-PORT=20300" "-NAME=agent_001"
```

3.3 Configuring Java EE Components

This section provides post-installation steps for Java EE Agent, Oracle Data Integrator Console and Oracle Enterprise Manager.

After deploying the Oracle Data Integrator templates, the following steps must be performed before starting the Java EE Agent, Oracle Data Integrator Console and Oracle Enterprise Manager applications deployed in WebLogic Server.

3.3.1 Declaring the Java EE Agent in Topology

All Java EE components are pre-configured in default templates. The default Java EE agent has a template, but the agent is not declared in the repository. Therefore, the agent must be configured in the repository.

1. In Topology Navigation, connect to the Master Repository and declare the Java EE agent and provide the following:
 - **Name** - Name of the physical agent.
Caution: If you use the default Java EE agent, then you must create an agent called `OracleDIAgent` (case sensitive). In addition, if you use the default agent created during the Java EE install, you do not have to create a new template. See "Managing Agents" in the *Oracle Fusion Middleware Developer's Guide for Oracle Data Integrator* for more information.
 - **Host** - Name of the host where the Java EE agent will be started.
 - **Port**: Port number of the WLS Server where the Java EE agent is deployed.
 - **Protocol**: Protocol to use for the agent connection. Possible values are `http` or `https`. Default is `http`.
 - **Web Application Context**: Default value is `oraclediagent`. The web application context should match the name set when deploying the agent template.

For detailed instructions on declaring the Java EE agent in Topology, see "Managing Agents" in the *Oracle Fusion Middleware Developer's Guide for Oracle Data Integrator*.

3.3.2 Generating Java EE Agent Template

A Java EE agent template can be generated from the ODI Studio. This is required to bundle the agent code with extra drivers with the source or target and Work or Master datasources declared in the Topology. For more information on datasource declaration, deployment and template generation in ODI Studio, see "Java EE Agent" in the *Oracle Fusion Middleware Developer's Guide for Oracle Data Integrator*.

Note: Default templates contain the following datasources for connecting the repositories: `jdbc/odiMasterRepository` and `jdbc/odiWorkRepository`. These JNDI names are referred to in the default Run-time Agent or Oracle Data Integrator Console templates. If you use a generated agent template, the datasources included in this template will be those declared in the topology for this agent. This template will also optionally contain the driver files.

3.3.3 Adding Credential Store Entries

The Oracle Data Integrator usernames and passwords required by the Java EE components to connect the repositories are not stored in ODI Configuration files. This information is stored in the Application Server credential store. When they need to authenticate to the repository, the ODI Java EE components refer to credential store entries, identified by a map named by default "oracle.odi.credmap" and a key.

CAUTION: Modifications to the credential store entries are only required when the ODI Console and Oracle Enterprise Manager are deployed in one domain and the agent is deployed in another domain.

3.3.3.1 Credential Store Entries for the Java EE Agent

The Java EE agent requires a single key storing the login and password for a user that will be used to connect the repositories. The key is the **Supervisor Key** value provided when creating the agent (this key is `SUPERVISOR` in the default agent template) and the user and password values must be a valid user name and password pair for a user with Supervisor privileges.

For example, if you use the default template and have created a repository with a `SUPERVISOR` user, you should create a key using the following WLST command:

1. Navigate to the `ODI_HOME/common/bin` directory.

Note that you must use WLST from this directory when using Oracle Data Integrator. The default WLST script provided with the Oracle WebLogic Server will not work. For more information on using WLST commands, see *Oracle Fusion Middleware WebLogic Scripting Tool Command Reference*.

2. Launch `wlst`.

- On UNIX operating systems:

```
./wlst.sh
```

- On Windows operating systems:

```
wlst.cmd
```

3. Execute the following WLST command substituting your usernames and passwords:

```
connect('weblogic','welcome1','t3://localhost:7001')
createCred(map="oracle.odi.credmap", key="SUPERVISOR", user="SUPERVISOR",
password="supervisor1", desc="Key for Supervisor")
disconnect()
```

3.3.3.2 Credential Store Entries for the Oracle Enterprise Manager

Oracle Enterprise Manager requires an ODI Supervisor key to connect the agents deployed on a domain and manage them. This key is similar to the key created for the Java EE Agent.

In addition to this key, Oracle Enterprise Manager requires a second key containing the username and password of a WebLogic administrator for each domain into which ODI Java EE Agents are deployed and must to be managed.

The second key is named after the domain, and contains a valid WebLogic administrator username and password.

For example, if you use the default template and have it deployed within a domain called `basedomain` with the WebLogic administrator called `WebLogic`, you can create the keys using the following WLST commands:

```
createCred(map="oracle.odi.credmap", key="SUPERVISOR", user="SUPERVISOR",
password="*****", desc="Key for Supervisor")

createCred(map="oracle.odi.credmap", key="basedomain", user="weblogic",
```

```
password="*****", desc="Username and password for base_domain")
```

Example Scenario:

1. Three agents OdiAgent1, OdiAgent2 and OdiAgent3 are defined as physical agents in the topology.
2. OdiAgent1 and OdiAgent2 are Java EE agents and OdiAgent3 is a Standalone agent.
3. OdiAgent1 is deployed on a WLS domain with the name agent_1_domain and OdiAgent2 is deployed on a WLS domain with the name agent_2_domain. Both domains use a WebLogic user as their administrator.
4. A user called SUPERVISOR is declared in the Master Repository, and SUPERVISOR is specified as the Supervisor Key value when creating the Java EE agent templates.

The following sequence of WLST commands creates the appropriate entries:

```
createCred(map="oracle.odi.credmap", key="SUPERVISOR", user="SUPERVISOR",
password="SUPERVISOR", desc="Key for Supervisor")
```

```
createCred(map="oracle.odi.credmap", key="agent_1_domain", user="weblogic",
password="*****", desc="Username and password for agent_1_domain")
```

```
createCred(map="oracle.odi.credmap", key="agent_2_domain", user="weblogic",
password="*****", desc="Username and password for agent_2_domain")
```

Once the credential maps are created, you can start the Java EE components. Agents are fully functional, but Oracle Data Integrator Console and Oracle Enterprise Manager may need extra configuration. See "[Configuring ODI Console Connections](#)" and "[Configuring Oracle Enterprise Manager with ODI Plugin](#)" for more information.

For more information on Oracle Data Integrator JEE configuration options, see "High Availability for Oracle Data Integrator" in the *Oracle Fusion Middleware High Availability Guide*.

3.3.4 Configuring ODI Console Connections

The Oracle Data Integrator Console template is created (by default) with two connections aliases:

- Work Repository connects a Work Repository after the two default datasources jdbc/odiMasterRepository and jdbc/odiWorkRepository.
- Master Repository connects a Master Repository after the default datasource jdbc/odiMasterRepository.

If more repository connections are required, either to access these repositories from ODI Console or to monitor them from Oracle Enterprise Manager, add the connections from the ODI Console interface.

To add new connections to ODI Console:

1. Start the Oracle Data Integrator Console application.
2. Open the **Management** tab. Connect to ODI Console (with an existing repository connection) as a user who has supervisor privileges. Select the **Management** tab.

If you have not yet configured a connection, a link to the **Management** tab appears at the top right corner of the login screen.

3. Navigate to the **Repository Connections** node in the **Management** Navigation tab.
4. Click **Create** in the Navigation tab toolbar. A **Create Repository Connection** dialog for this object appears.
5. Provide the values for the repository connection:
 - **Connection Alias:** Name of the connection that will appear on the Login page.
 - **Master JNDI URL:** JNDI URL of the datasource to connect the master repository database.
For example: `jdbc/odiMasterRepository`
 - **Supervisor User Name:** Name of the Oracle Data Integrator user with Supervisor privileges that Oracle Data Integrator Console will use to connect to the repository. This user's password must be declared in the WebLogic Server Credential Store.
 - **Work JNDI URL:** JNDI URL of the datasource to connect the work repository database. If no value is given in this field, the repository connection will allow connection to the master only, and the Navigation will be limited to Topology information.
 - **JNDI URL:** Check this option if you want to use the Environment Naming Context (ENC). When this option is checked, Oracle Data Integrator Console automatically prefixes the data source name with the string `java:comp/env/` to identify it in the application server's JNDI directory. Note that the JNDI Standard is not supported by Oracle WebLogic Server or for global data sources.
For example: `jdbc/odiWorkRepository`
 - **Default:** Check this option if you want this Repository Connection to be selected by default on the login page.
6. Click **Save**. The new Repository Connection appears in the **Management** Navigation tab.

See "Performing Administrative Operations" in the *Oracle Fusion Middleware Developer's Guide for Oracle Data Integrator* for more information about creating repository connections.

3.3.5 Configuring Oracle Enterprise Manager with ODI Plugin

To use Oracle Enterprise Manager with the Oracle Data Integrator Console, and your agent resides in a separate domain, you must first create the appropriate Credential Store Entries for Oracle Enterprise Manager as described in [Section 3.3.3](#).

Domain discovery is performed with the following process:

1. Oracle Enterprise Manager finds the Oracle Data Integrator Console configuration file storing the Repository Connection (`repositories.xml`) in the location specified in the configuration file `DOMAIN_HOME/config/oracledi/config.properties`.
2. Oracle Enterprise Manager parses the repository connections declared in Oracle Data Integrator Console, tries to connect all the masters and retrieves their status and list of agents. Even if an agent or repository is down, it will appear in the Oracle Enterprise Manager.

3. Any agent on the domain will appear in the domain with its status and will start posting notifications (if started).

NOTE: If you want Oracle Enterprise Manager to drill down into Oracle Data Integrator Console using a different URL than the one detected by Oracle Enterprise Manager, you will need to reconfigure this in Oracle Enterprise Manager. Reconfiguration is not mandatory but may be needed when using a firewall for HTTP load balancing to Oracle Data Integrator Console.

For more information on using Oracle Enterprise Manager, see the *Oracle Fusion Middleware Administrator's Guide*.

Part II

Appendices

Part 2 contains the following appendices:

- [Appendix A, "Installation Screens for ODI"](#)
- [Appendix B, "Silent Installations"](#)
- [Appendix C, "Deinstalling Oracle Data Integrator"](#)
- [Appendix D, "Deinstallation Screens for ODI"](#)
- [Appendix E, "Oracle Data Integrator Companion CD"](#)
- [Appendix F, "Creating Repositories with Oracle Data Integrator Studio"](#)
- [Appendix G, "Customizing the ODI Credential Map Name"](#)
- [Appendix H, "OPMN Configuration for Standalone Agent"](#)

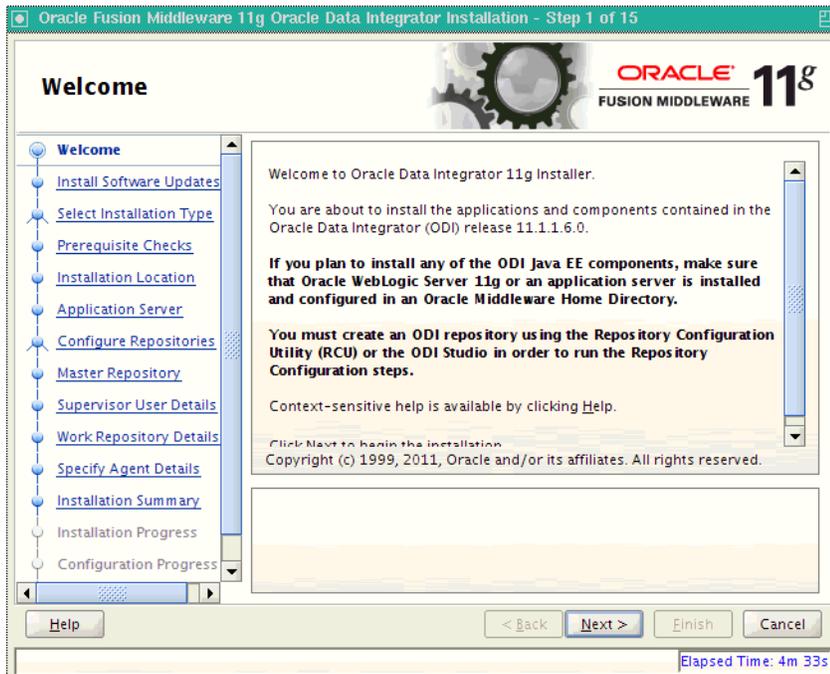
A

Installation Screens for ODI

This appendix contains images and descriptions for all of the Oracle Data Integrator installation screens and post-installation configuration screens:

- Section A.1, "Welcome Screen"
- Section A.2, "Install Software Updates Screen"
- Section A.3, "Select Installation Type Screen"
- Section A.4, "Prerequisite Checks Screen"
- Section A.5, "Specify Installation Location Screen"
- Section A.6, "Application Server Screen"
- Section A.7, "Repository Configuration Screen"
- Section A.8, "Master Repository Screens"
- Section A.9, "Supervisor User Details Screen"
- Section A.10, "Specify Work Repository Details Screen"
- Section A.11, "Specify Agent Details Screen"
- Section A.12, "Installation Summary Screen"
- Section A.13, "Installation Progress Screen"
- Section A.14, "Configuration Progress Screen"
- Section A.15, "Installation Completed Screen"

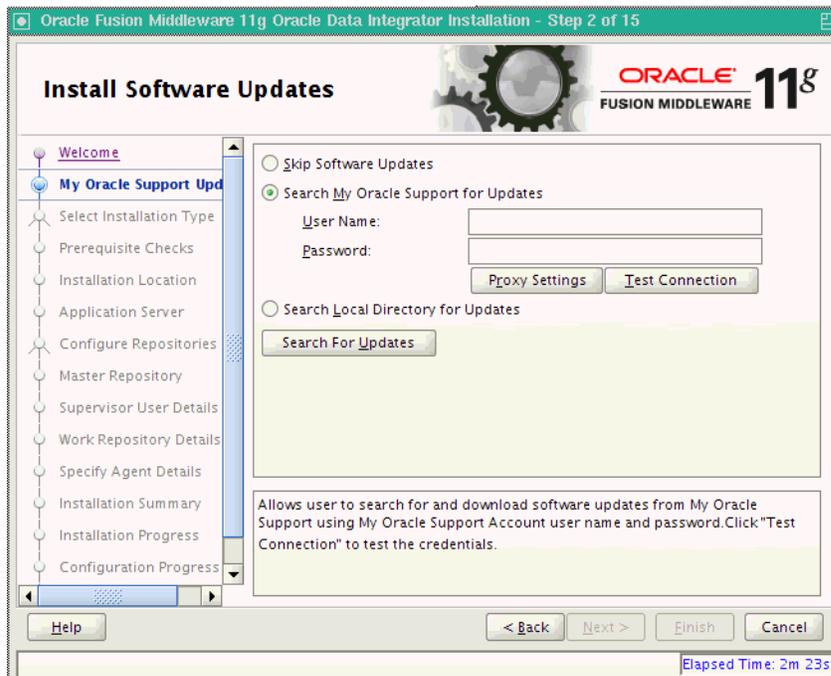
A.1 Welcome Screen



The Welcome screen is displayed each time you start the installer. Review the Release Notes before you install for important information about the installation.

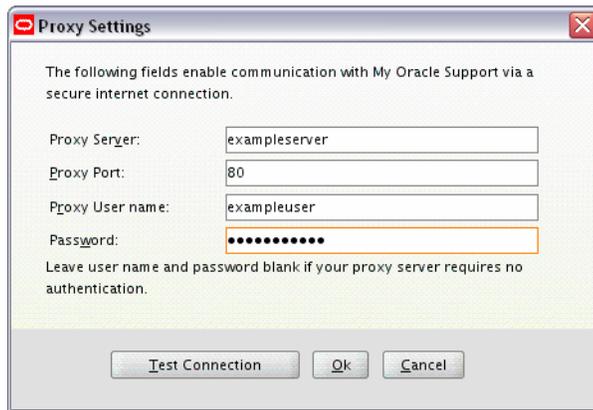
Before continuing, make sure that you have created the necessary schemas for the products you want to install, and that you have also installed and configured WebLogic Server. For more information, refer to [Section 2.1, "Preparing to Install"](#).

A.2 Install Software Updates Screen



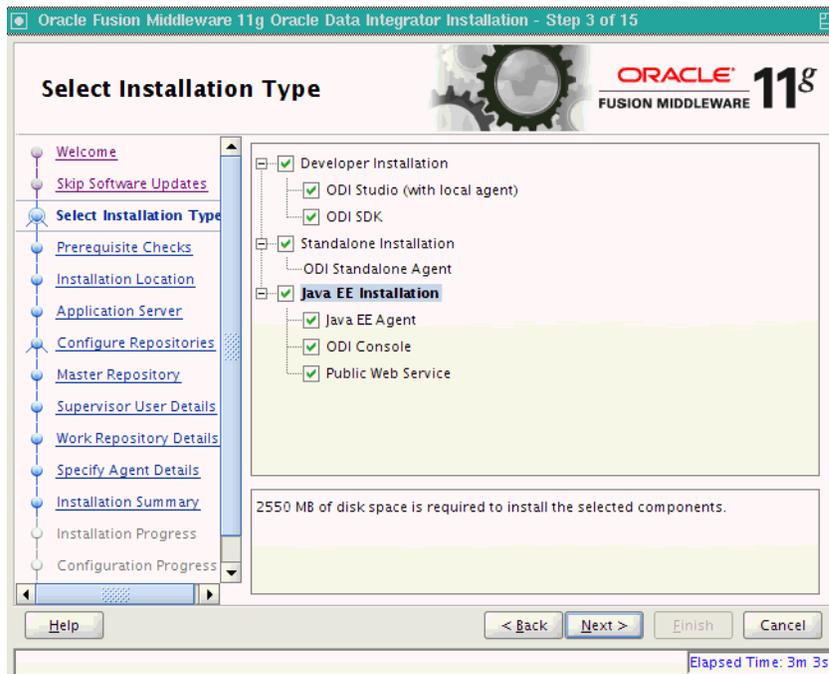
Field	Description
Skip Software Updates	Select this option to skip this screen. The installer will not check for updates that might be applicable to the current product installation.

Field	Description
Search My Oracle Support for Updates	<p>If you have a My Oracle Support account, then select this option to have the installer automatically search My Oracle Support for software updates that apply to the software products are about to install.</p> <p>Enter your My Oracle Support account name and password, and then click Search For Updates. The installer automatically downloads applicable software updates from My Oracle Support.</p> <p>Before you search for update, you can test your login credentials and the connection to My Oracle Support by clicking Test Connection. Click Proxy Settings to configure a proxy server if one is required:</p>



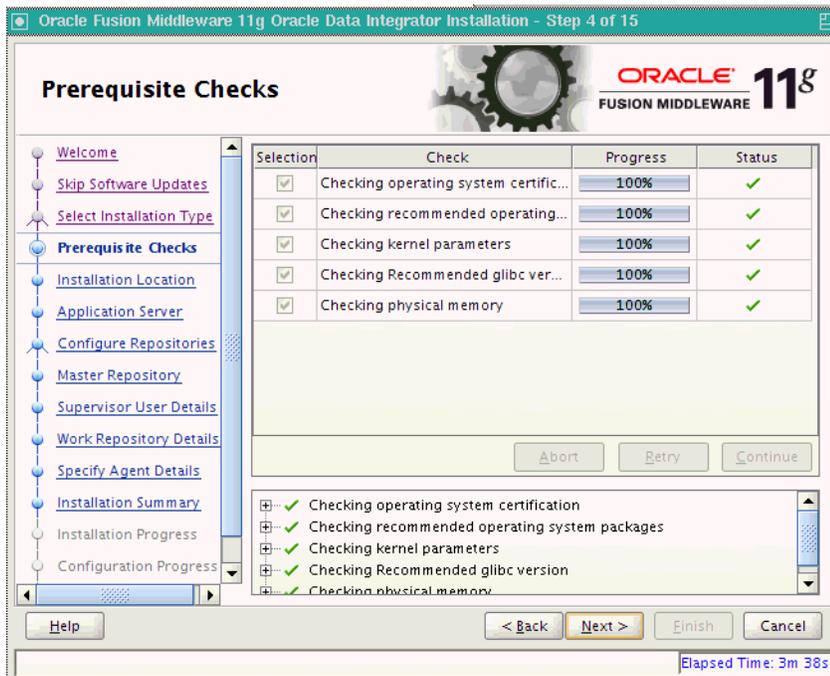
Search Local Directory for Updates	<p>Select this option if you already downloaded the latest software updates and you want the installer to search a local directory for updates applicable to the products you are about to install.</p>
------------------------------------	---

A.3 Select Installation Type Screen



Field	Description
Developer Installation	This installation type includes the ODI Studio (with a local agent) and the Oracle Data Integrator Software Development Kit (SDK).
Standalone Installation	This installation type includes an Oracle Data Integrator standalone agent.
Java EE Installation	This installation type includes the Java EE agent, Oracle Data Integrator Console, and Public Web Services.

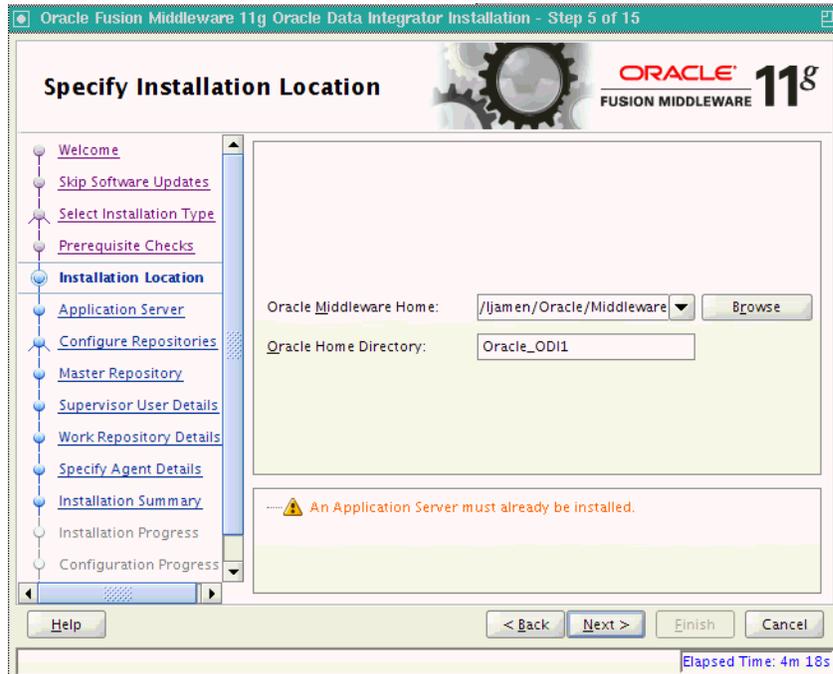
A.4 Prerequisite Checks Screen



Field	Description
Abort	Click Abort to stop prerequisite checking for all components.
Retry	If there is a problem, a short error message appears in the bottom portion of the screen. Fix the error and click Retry to try again.
Continue	If you want to ignore the errors or warnings and continue with the installation, click Continue .

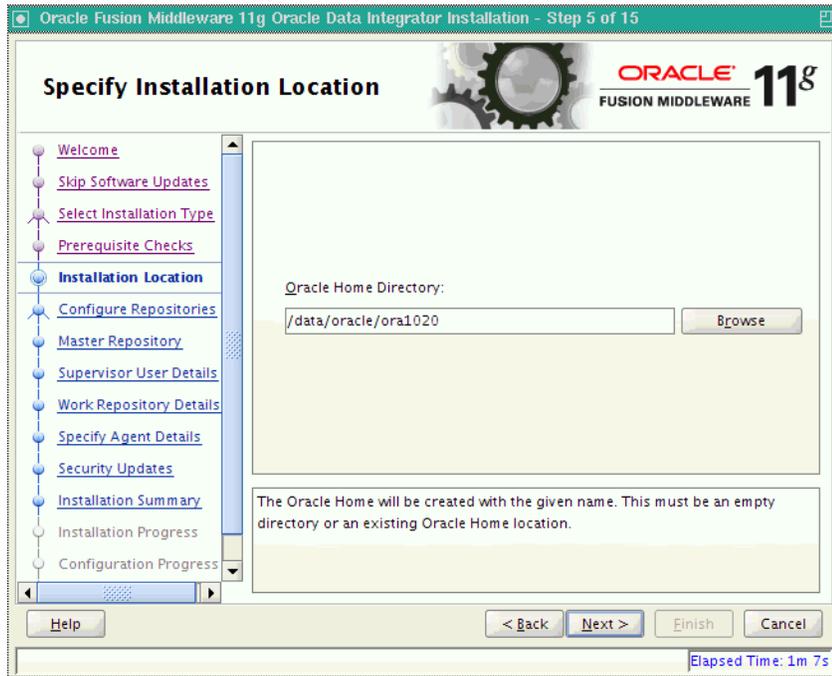
A.5 Specify Installation Location Screen

Figure A-1 Specify Installation Location Screen for Java EE Install Types



Field	Description
Oracle Middleware Home	Specify the absolute path to your existing Oracle Middleware Home directory; this is the directory that was created when you installed Oracle WebLogic Server. If you do not know the full path to your Middleware Home, you can click Browse to select an existing directory in your system.
Oracle Home Directory	<p>Specify a directory inside the Oracle Middleware Home. This Oracle Home Directory is the root directory where the ODI products will be installed. This is also known as the ODI_HOME directory.</p> <p>If you specify a directory that already exists, it must be either:</p> <ul style="list-style-type: none"> An empty directory inside the Oracle Middleware Home (for example, you have created an empty directory inside the Middleware Home in advance of this installation and should specify the directory here). An existing Oracle home directory (for example, you are reinstalling ODI to an existing Oracle home because of an incomplete previous installation). <p>NOTE: If you specify a new directory, it will be created inside the Oracle Middleware Home.</p>

Figure A–2 Specify Installation Location Screen for Developer and Standalone Agent Install Type



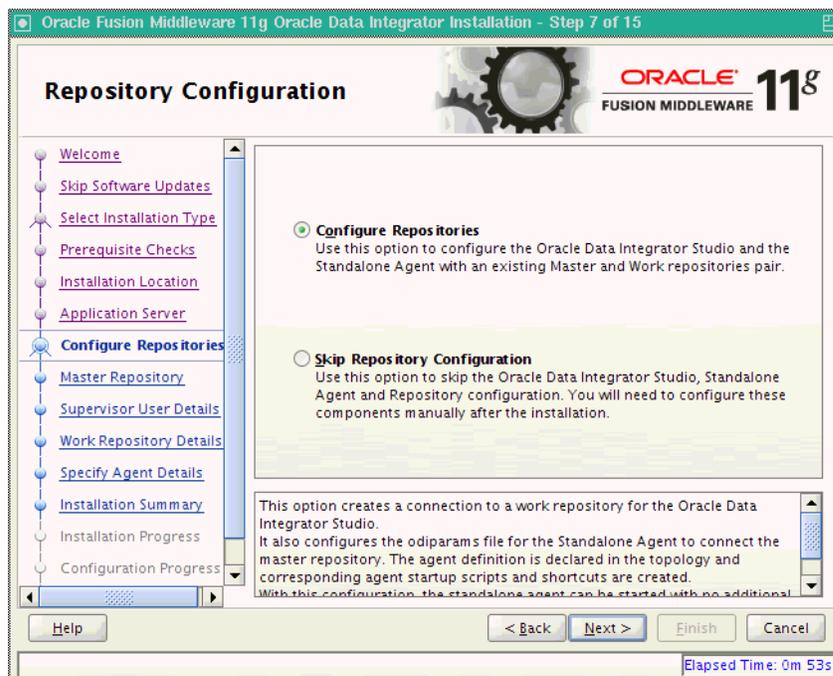
Field	Description
Oracle Home Directory	Enter the absolute path for the Oracle home location.

A.6 Application Server Screen



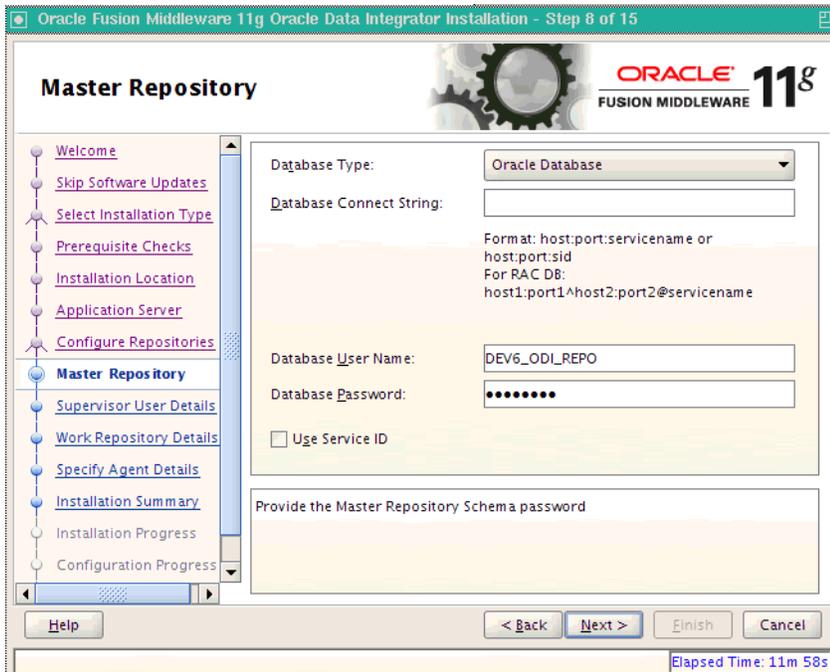
Field	Description
WebLogic Server	<p>This option is selected by default if the installer detects a Middleware home with Oracle WebLogic Server installed.</p> <p>If no WebLogic Server is detected in the Middleware home, you have the option to select either WebLogic Server or WebSphere as your application server.</p>
WebSphere	<p>Select this option if you installed an IBM WebSphere application server.</p> <p>This field is inactive when an Oracle WebLogic Server is installed in the Middleware home.</p>
Application Server Location	<p>Provide the location of your IBM WebSphere application server, if applicable.</p> <p>This field is inactive when an Oracle WebLogic Server is installed in the Middleware home.</p>

A.7 Repository Configuration Screen



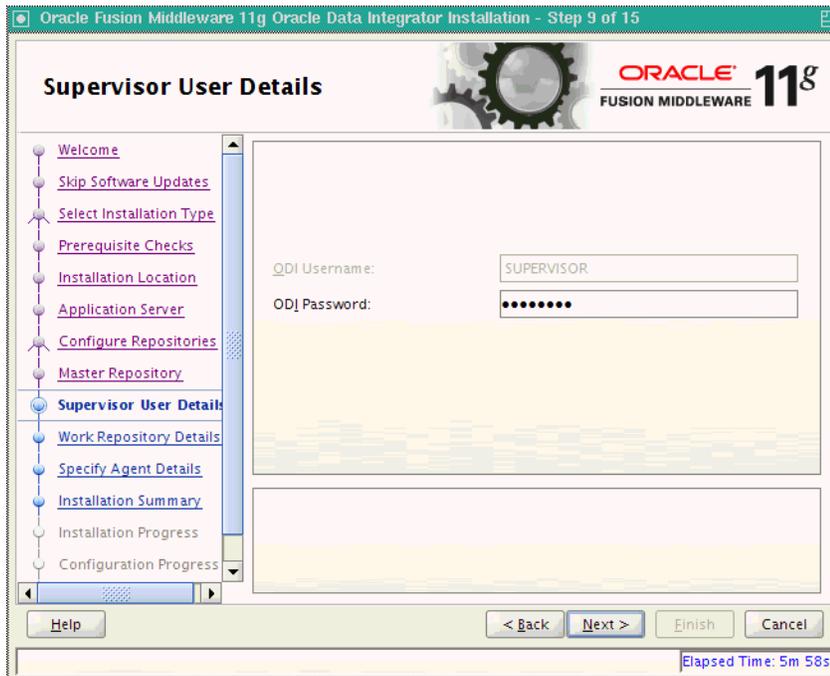
Field	Description
Configure Repositories	<p>This option creates a connection to a work repository for the Oracle Data Integrator Studio. It also configures the odiparams file for the Standalone Agent to connect the master repository. The agent definition is declared in the topology and corresponding agent startup scripts and shortcuts are created. With this configuration, the standalone agent can be started with no additional configuration.</p> <p>Select this option if you have existing 11g Master and Work Repositories.</p>
Skip Repository Configuration	<p>Select this option to continue with the Oracle Data Integrator installation without configuring the repositories. Once installed, you can use the Oracle Data Integrator Studio JDev Gallery to create or configure the repositories.</p> <p>NOTE: Select Skip Repository Configuration if:</p> <ul style="list-style-type: none"> Your database is not supported by Oracle's Repository Creation Utility (RCU). You will need to configure these components manually after the installation. For more information see Appendix F, "Creating Repositories with Oracle Data Integrator Studio". Your schemas have not yet been upgraded to the latest release. <p>For a list of supported databases, see http://www.oracle.com/technology/software/products/ias/files/fusion_requirements.htm.</p>

A.8 Master Repository Screens



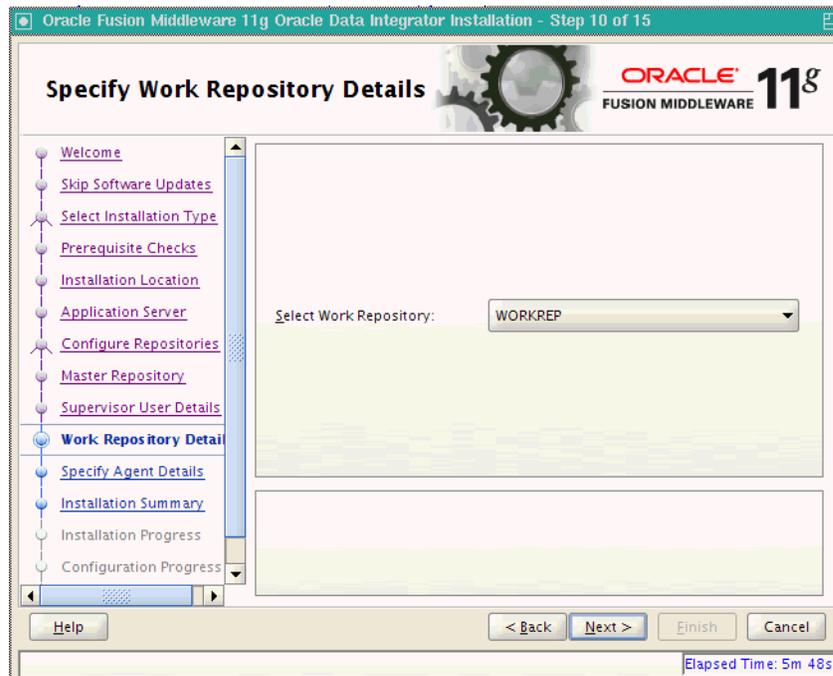
Field	Description
Database Type	Select the database type that hosts the Oracle Data Integrator Master Repository.
Database Connect String	<p>Enter the connect string for the database that contains the 11g ODI schemas.</p> <p>Oracle Database</p> <p>Use a JDBC connect string: <i>host:port:SID</i></p> <p>For example: <code>odiHost:1521:odiDB</code></p> <p>Or: <i>//host:port/service</i></p> <p>For example: <code>//odiHost:1521/odiDB2</code></p> <p>Microsoft SQL Server</p> <p>Use the following connect string: <i>//host:port;DatabaseName=dbname</i></p> <p>For example: <code>//odiHost:1443;DatabaseName=odiDB</code></p> <p>IBM DB2</p> <p>Use the following connect string: <i>//host:port;DatabaseName=dbname</i></p> <p>NOTE: If your database is not supported by the Oracle Universal Installer, see Appendix E.2, "Manual Installation and Configuration Steps".</p>
Database User Name	Provide the Master Repository schema user name.
Database Password	Provide the Master Repository schema password.
Use Service ID	Select Use Service ID, if you want to use the Service ID instead of the Service Name for Oracle database.

A.9 Supervisor User Details Screen



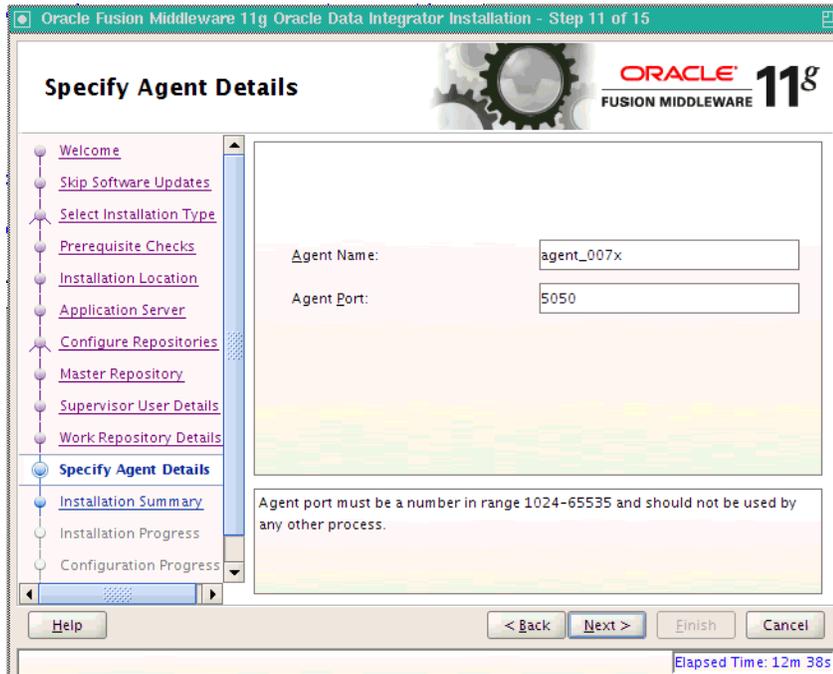
Field	Description
ODI Username	Provide the ODI username with Supervisor privileges.
ODI Password	Provide the Supervisor user's password.

A.10 Specify Work Repository Details Screen



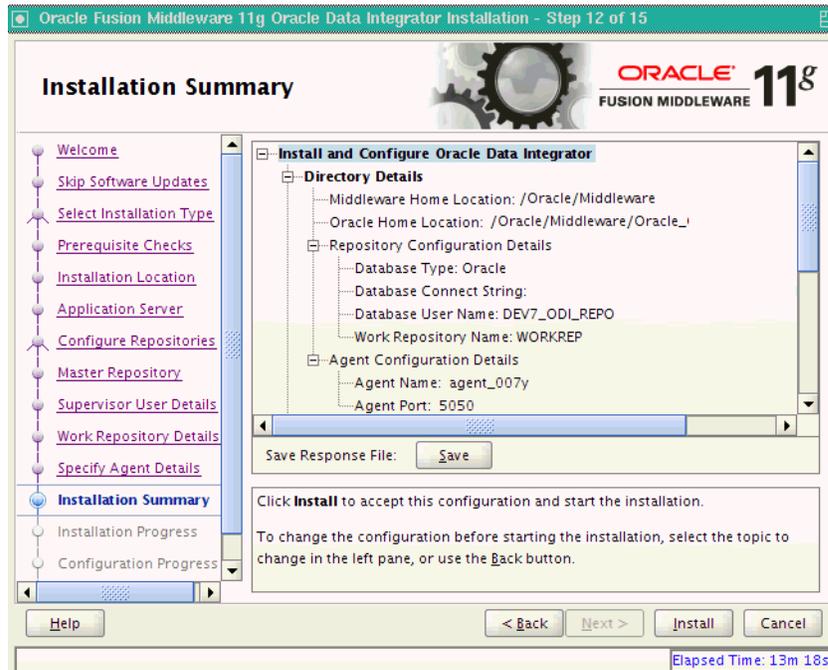
Field	Description
Select Work Repository	Select the Oracle Data Integrator Work Repository from the drop-down list.

A.11 Specify Agent Details Screen



Field	Description
Agent Name	Provide a name for the standalone or local agent.
Agent Port	Provide a port number between 1024 and 65535 that is not currently being used by any other Oracle home. This port defaults to 20910.

A.12 Installation Summary Screen

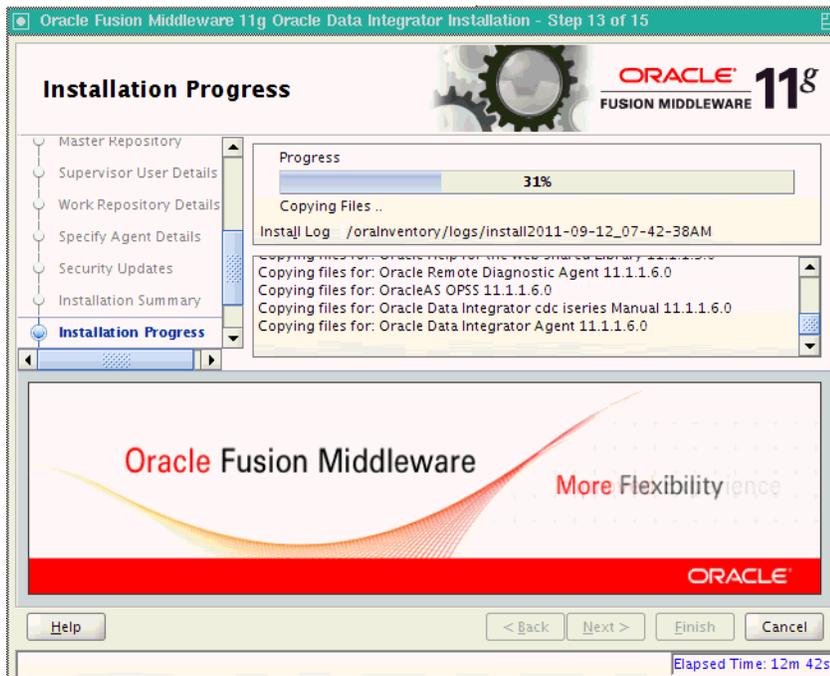


Review the information on this screen, and click **Install** to begin the installation. The operations summarized on this page will be performed when you click Install.

If you want to make any changes to the configuration before starting the installation, use the navigation pane and select the topic you want to edit.

If you want to save this configuration to a text file, click **Save**. This file can be used later if you choose to perform the same installation from the command line. See [Appendix B, "Silent Installations"](#) for more information.

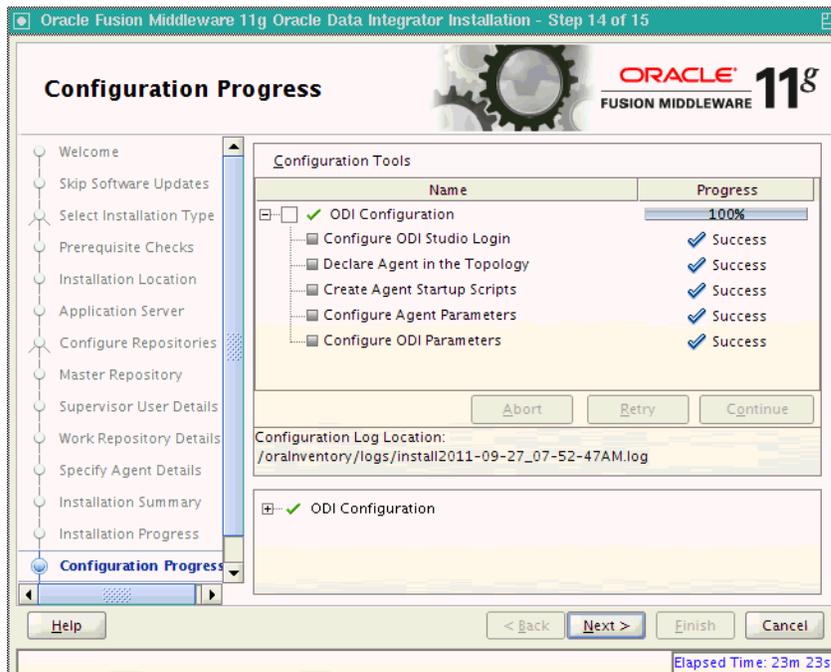
A.13 Installation Progress Screen



This screen shows you the progress of the installation.

If you want to quit before the installation is completed, click **Cancel**. Doing so will result in a partial installation; the portion of the software that was installed on your system before you click **Cancel** will remain on your system, and you will have to remove it manually.

A.14 Configuration Progress Screen



If you selected **Configure Repositories** on the [Repository Configuration Screen](#), this screen shows you the progress of the component configuration. This screen will not appear if you selected **Skip Repository Configuration**.

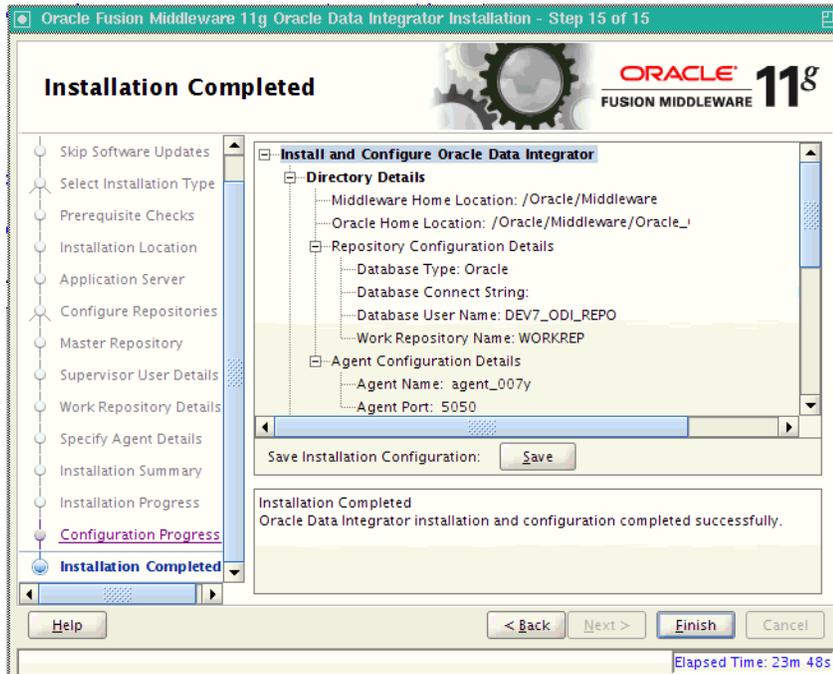
If there is a problem, a short error message appears in the bottom portion of the screen. Fix the error and click **Retry** to try again.

If you want to ignore the error and warning messages and continue with the installation, click **Continue**.

Click **Abort** to stop prerequisite checking for all components.

If you want to quit before the installation is completed, click **Cancel**.

A.15 Installation Completed Screen



This screen summarizes the installation that was just completed. The information that you provided appears in the Directory Details section.

Click **Save** to save your configuration information to a file. This information includes port numbers, installation directories, disk space usage, URLs, and component names which you may need at a later time.

Click **Finish** to dismiss the screen.

Silent Installations

This appendix describes how to perform a silent installation of Oracle Data Integrator.

- [Section B.1, "About Silent Installation"](#)
- [Section B.2, "Oracle Data Integrator Response Files"](#)

B.1 About Silent Installation

Oracle Data Integrator allows you to configure existing response file templates to perform silent installations. For general information about silent installation and deinstallation, refer to "Silent Installation and Deinstallation" in *Oracle Fusion Middleware Installation Planning Guide*.

B.2 Oracle Data Integrator Response Files

Oracle recommends creating your response file by first running the install GUI, then clicking **Save** on the [Installation Summary Screen](#). You will be prompted for a name and location where you want to create this response file. After it is created, you can use it exactly as-is to replicate the installation on other systems, or modify it as needed.

The response file can be used to install the Oracle Data Integrator software only. You will still need to run the Oracle Fusion Middleware Configuration Wizard separately to create or extend your WebLogic domain and configure Oracle Data Integrator products. For more information, see [Section 3.1, "Configuring a WebLogic Domain"](#).

The following response file templates are provided in the `Disk1/stage/Response` (on UNIX operating systems) or `Disk1\stage\Response` (on Windows operating systems) directory on the installation CD-ROM.

Response File Template	Description
<code>developerPlatformConfigureExistingRepository.rsp</code>	<p>This is the template response file that should be used if you are installing ODI Studio (with a local agent) or the Oracle Data Integrator Software Development Kit (SDK) and you want to configure existing Master and Work Repositories.</p> <p>This template provides the functional equivalent of using the GUI and selecting the Developer Installation option on the Specify Installation Location Screen and the Configure with existing Master and Work Repositories on the Repository Configuration Screen.</p>

Response File Template	Description
developerPlatformSkipRepository.rsp	<p>This is the template response file that should be used if you are installing ODI Studio (with a local agent) or the Oracle Data Integrator Software Development Kit (SDK) and you do not want to configure the ODI Master and Work Repositories.</p> <p>This template provides the functional equivalent of using the GUI and selecting the Developer Installation option on the Specify Installation Location Screen and the Skip Repository Configuration on the Repository Configuration Screen.</p>
j2eePlatformConfigureExistingRepository_wls.rsp	<p>This is the template response file that should be used if you are installing the Java EE components (which includes the Java EE agent, Oracle Data Integrator Console, and Public Web Services) on an Oracle WebLogic Server and you want to configure existing Master and Work Repositories.</p> <p>This template provides the functional equivalent of using the GUI and selecting the Java EE Installation option on the Specify Installation Location Screen and the Configure with existing Master and Work Repositories on the Repository Configuration Screen.</p>
j2eePlatformConfigureExistingRepository_was.rsp	<p>This is the template response file that should be used if you are installing the Java EE components (which includes the Java EE agent, Oracle Data Integrator Console, and Public Web Services) on an IBM WebSphere Server and you want to configure existing Master and Work Repositories.</p> <p>This template provides the functional equivalent of using the GUI and selecting the Java EE Installation option on the Specify Installation Location Screen and the Configure with existing Master and Work Repositories on the Repository Configuration Screen.</p>
j2eePlatformSkipRepository_wls.rsp	<p>This is the template response file that should be used if you are installing the Java EE components (which includes the Java EE agent, Oracle Data Integrator Console, and Public Web Services) on an Oracle WebLogic Server and you do not want to configure repositories.</p> <p>This template provides the functional equivalent of using the GUI and selecting the Java EE Installation option on the Specify Installation Location Screen and the Skip Repository Configuration on the Repository Configuration Screen.</p>
j2eePlatformSkipRepository_was.rsp	<p>This is the template response file that should be used if you are installing the Java EE components (which includes the Java EE agent, Oracle Data Integrator Console, and Public Web Services) on an IBM WebSphere Server and you do not want to configure repositories.</p> <p>This template provides the functional equivalent of using the GUI and selecting the Java EE Installation option on the Specify Installation Location Screen and the Skip Repository Configuration on the Repository Configuration Screen.</p>

Response File Template	Description
standalonePlatformConfigureExistingRepository.rsp	<p>This is the template response file that should be used if you are installing the ODI Standalone agent and you want to configure existing Master and Work Repositories.</p> <p>This template provides the functional equivalent of using the GUI and selecting the Standalone Installation and Configure with existing Master and Work Repositories on the Repository Configuration Screen.</p>
standalonePlatformSkipRepository.rsp	<p>This is the template response file that should be used if you are installing the ODI Standalone agent and you do not want to configure existing Master and Work Repositories.</p> <p>This template provides the functional equivalent of using the GUI and selecting the Standalone Installation and Skip Repository Configuration on the Repository Configuration Screen.</p>
deinstall_oh.rsp	<p>This is the template response file that should be used if you want to deinstall an existing Oracle Home.</p>

Deinstalling Oracle Data Integrator

This appendix describes how to remove Oracle Data Integrator products from your system.

You should always use the instructions provided in this chapter for removing the software. If you try to remove the software manually, you may experience problems when you try to reinstall the software again at a later time. Following the procedures in this chapter will ensure that the software is properly removed. See [Section C.2, "Reinstallation"](#) for more information.

C.1 Deinstallation Instructions

This section contains information and instructions for removing Oracle Data Integrator components. When you run the Oracle Data Integrator Deinstaller, it removes everything under the Oracle home (referred to in this guide as ODI_HOME) from which the Deinstaller is started. For example, when you launch the ODI Deinstaller from the ODI_HOME/oui/bin directory, all of the ODI components in the ODI_HOME will be deinstalled. Be sure that no system components are using the Oracle home you want to remove.

This procedure involves the following:

- [Section C.1.1, "Stopping Oracle Fusion Middleware"](#)
- [Section C.1.2, "Stopping a Standalone Agent"](#)
- [Section C.1.3, "Removing the Oracle Data Integrator Schemas"](#)
- [Section C.1.4, "Removing Oracle Data Integrator Components"](#)
- [Section C.1.5, "Removing the ODI Home"](#)
- [Section C.1.6, "Removing the Oracle Common Home"](#)
- [Section C.1.7, "Removing Oracle WebLogic Server"](#)
- [Section C.1.8, "Removing the Program Groups \(Windows Only\)"](#)

C.1.1 Stopping Oracle Fusion Middleware

Before deinstalling Oracle Fusion Middleware software components, you should stop all servers and processes.

For more information about starting and stopping Oracle Fusion Middleware, refer to "Starting and Stopping Oracle Fusion Middleware" in *Oracle Fusion Middleware Administrator's Guide*.

C.1.2 Stopping a Standalone Agent

You can stop Standalone Agent by stopping the Java process of this agent. You can also stop a Standalone Agent remotely using the `agentstop` command.

To stop a standalone agent:

1. Change directory to the `/agent/bin` directory of the Oracle Data Integrator Agent.
2. Enter the following command to stop the agent.
 - On UNIX system:


```
./agentstop.sh
```
 - On Windows system:


```
agentstop.bat
```

The Standalone Agent is stopped.

For more information on stopping the agent with OPMN, see [Appendix H, "OPMN Configuration for Standalone Agent"](#).

Note: For security reasons, it is only possible to stop an agent from a command line launched on the same machine that the agent's process was started. It is not possible to stop a remote agent.

Examples:

- On UNIX operating systems: `./agentstop.sh` stops the agent on the default port.
- On Windows: `agentstop -PORT=20300` stops the agent on the port 20300.

AgentStop Command Parameters

The table below lists the different parameters for the command to stop the agent. The parameters are preceded by the "-" character and the possible values are preceded by the "=" character. When entering the command, consider the operating system specific syntax of the delimiters.

Parameters	Description
<code>-PORT=<port></code>	This parameter is deprecated. It is used to stop a standalone agent on the same machine. It is a shortcut to <code>-AGENT_URL=http://localhost:<port>/oracle/agent</code> . The default port is 20910.
<code>-AGENT_URL=<agent_url></code>	URL of the standalone agent to stop. This parameter has precedence over the <code>AGENT_NAME</code> and <code>PORT</code> parameters is deprecated.
<code>-NAME=<agent name></code>	If this parameter is specified, the physical agent whose name is provided is killed. This agent may be a local or remote agent, and must be declared in the Master Repository. This parameter has precedence over the <code>PORT</code> parameter.

Parameters	Description
<code>-IMMEDIATE=<true (default) false></code>	If this parameter is set to Yes then the agent is killed without waiting for completion of its running sessions. If it is set to no then the agent is killed after all its running sessions reach completion or after the MAX_WAIT time-out is reached. Default value is No.
<code>-MAX_WAIT=<stop timeout in millis></code>	This parameter can be used when IMMEDIATE is set to No. It defines a timeout in milliseconds after which the agent is killed regardless of the running sessions. Default is 0, meaning no timeout and the agent is killed after all its running sessions reach completion.

C.1.3 Removing the Oracle Data Integrator Schemas

Run the Repository Creation Utility (RCU) to drop the Oracle Data Integrator Master and Work Repositories from your database. See "Dropping Schemas" in *Oracle Fusion Middleware Repository Creation Utility User's Guide*.

If you manually installed the repositories, use the database tools to remove the schemas storing the repositories. See your database administration documentation for more information.

C.1.4 Removing Oracle Data Integrator Components

Follow the instructions in this section to deinstall the Oracle Data Integrator components from the ODI_HOME.

C.1.4.1 Starting the Deinstaller

For Oracle Data Integrator products, go to the `ODI_HOME/oui/bin` (on UNIX operating systems) or `ODI_HOME\oui\bin` (on Windows operating systems) directory and start the Deinstaller.

- On UNIX operating systems:

```
./runInstaller.sh -deinstall
```

- On Windows operating systems:

```
setup.exe -deinstall
```

On Windows operating systems, you can also start the Deinstaller from the Start menu by selecting **Programs > Oracle Home - ODI_HOME > Uninstall**.

Caution: You must reboot your Windows operating system after running the Deinstaller. Failure to do so may result in an incomplete deinstallation.

Follow the instructions in [Table C-1](#) to remove the ODI_HOME.

C.1.5 Removing the ODI Home

After starting the Deinstaller, follow the instructions in [Table C-1](#) to remove your ODI_HOME.

Table C-1 Removing Your Oracle Data Integrator Home

Number	Screen	Description and Action Required
1	Welcome Screen	Click Next to continue.
2	Deinstall Oracle Home Screen	Select Deinstall Oracle Home . Verify the Oracle home directory that is about to be deinstalled. Click Deinstall to continue.
3	Deinstallation Progress Screen	This screen shows the progress and status of the deinstallation.
4	Deinstallation Complete Screen	Click Finish to dismiss the screen.

C.1.6 Removing the Oracle Common Home

This section describes how to remove the Oracle Fusion Middleware home's `/oracle_common` directory. This directory contains its own Deinstaller in `/oui/bin` (on UNIX operating systems) or `\oui\bin` (on Windows operating systems), just like any other Oracle home directory.

To start the Deinstaller, navigate to the `MW_HOME/oracle_common/oui/bin` (on UNIX operating systems) or `MW_HOME\oracle_common\oui\bin` (on Windows operating systems) directory and start the Deinstaller.

The Deinstaller requires the location of a Java Runtime Environment (JRE) on your system. When you installed Oracle WebLogic Server, a JRE was installed on your system. You can use this location (the location of the JRE directory) to start the installer. The default location for the JRE is `MW_HOME/jdk160` (on UNIX operating systems) or `MW_HOME\jdk160` (on Windows operating systems), where `MW_HOME` is the Oracle Fusion Middleware Home directory.

On 64-bit platforms, the JRE location is the `JAVA_HOME` you used to install Oracle WebLogic Server.

On UNIX operating systems:

```
./runInstaller -deinstall -jreLoc [JRE_LOCATION]
```

On Windows operating systems:

```
setup.exe -deinstall -jreLoc [JRE_LOCATION]
```

You must specify the absolute path to your `JRE_LOCATION`; relative paths will not work.

After the Deinstaller is started, follow the instructions in [Table C-1](#) to remove the Oracle Common home.

C.1.7 Removing Oracle WebLogic Server

Refer to "Uninstalling the Software" in *Oracle Fusion Middleware Installation Guide for Oracle WebLogic Server* for instructions on how to remove Oracle WebLogic Server.

After you have removed the Oracle WebLogic Server, you must manually remove the Oracle Fusion Middleware home directory. For example, if your Oracle Fusion Middleware home directory was `/home/Oracle/Middleware` on a UNIX operating system:

```
> cd /home/Oracle
> rm -rf Middleware
```

On a Windows operating system, if your Middleware home directory was C:\Oracle\Middleware, use a file manager window and navigate to the C:\Oracle directory, then right-click the Oracle Fusion Middleware folder and select **Delete**.

C.1.8 Removing the Program Groups (Windows Only)

On Windows operating systems, you must also manually remove the program groups from the Start Menu\Programs folder. As an example (the folder names and program group names on your system may be different), you might remove the following from C:\Documents and Settings\All Users\Start Menu\Programs:

- Oracle Fusion Middleware 11.1.1.n.n
- Oracle Data Integrator 11g - Home1
- Oracle WebLogic

Note: You should reboot your computer after you have finished removing all of your programs to ensure proper cleanup.

C.2 Reinstallation

The installer does not allow reinstallation of Oracle Data Integrator in a directory that already contains an Oracle instance. To reinstall Oracle Data Integrator in the same directory as before, you must:

1. Follow the instructions in [Section C.1.4, "Removing Oracle Data Integrator Components"](#) to remove all Oracle Data Integrator components from the ODI_HOME directory.
2. Follow the instructions in [Chapter 2, "Installing Oracle Data Integrator"](#) to reinstall the software.

Deinstallation Screens for ODI

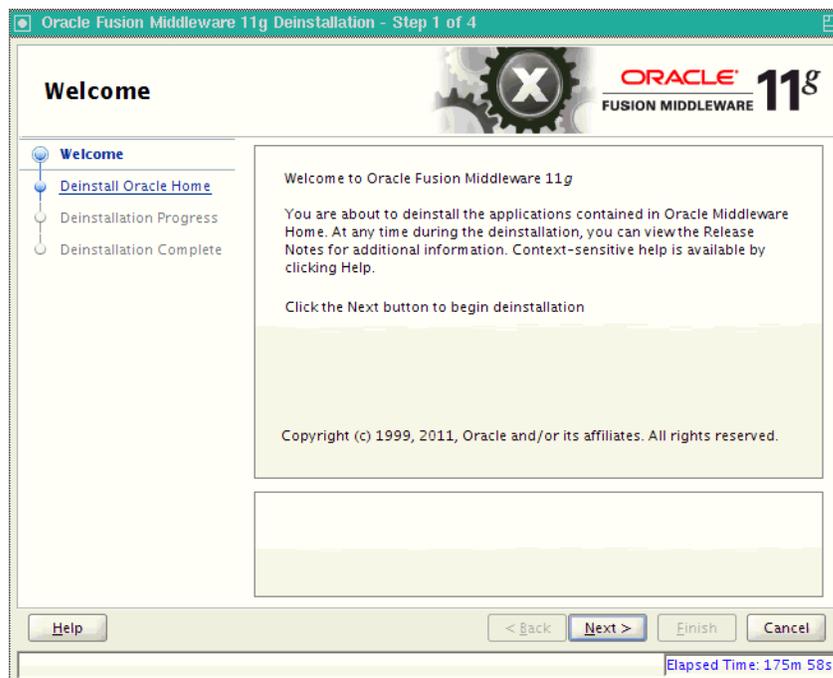
This appendix contains images and descriptions for all of the Oracle Data Integrator deinstallation screens:

- [Section D.1, "Welcome Screen"](#)
- [Section D.2, "Deinstall Oracle Home Screen"](#)
- [Section D.3, "Deinstallation Progress Screen"](#)
- [Section D.4, "Deinstallation Complete Screen"](#)

D.1 Welcome Screen

The Welcome screen is the first screen you see when the Deinstaller is started.

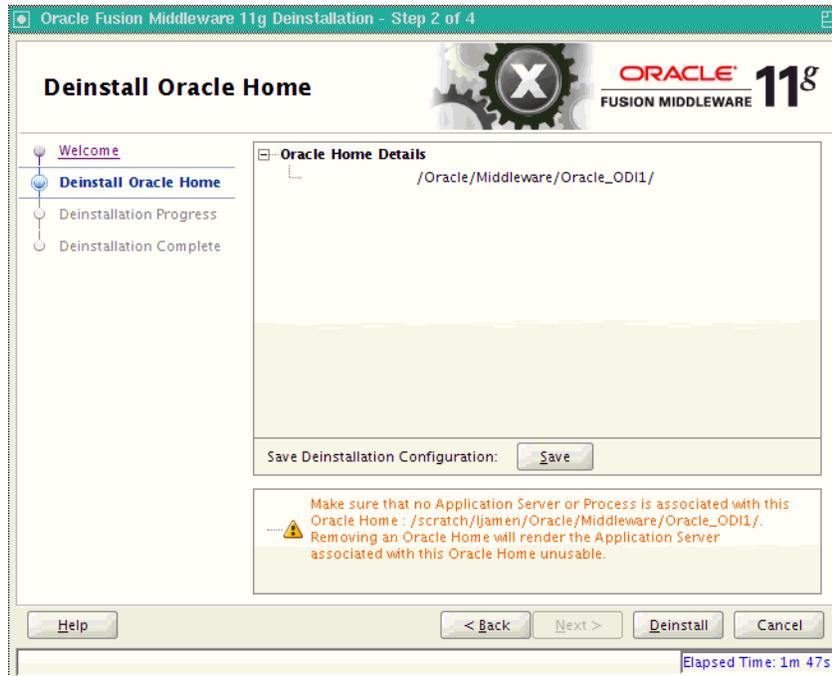
Figure D-1 *Deinstallation Welcome*



D.2 Deinstall Oracle Home Screen

This screen shows the Oracle Home directory that is about to be deinstalled. This is the Oracle Home directory from which the Deinstaller was started.

Figure D-2 Deinstall Oracle Home Screen

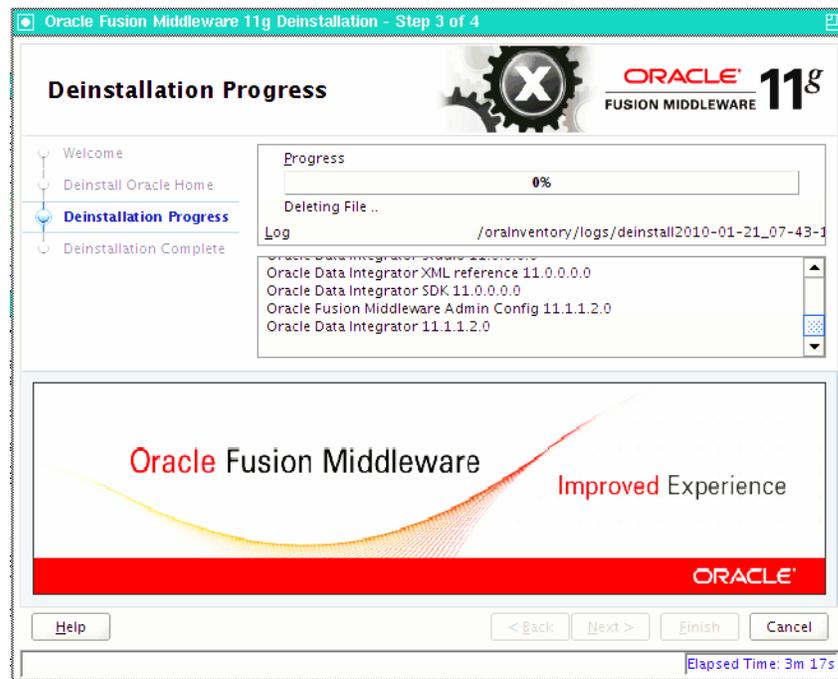


D.3 Deinstallation Progress Screen

This screen shows you the progress of the deinstallation.

If you want to quit before the deinstallation is completed, click **Cancel**.

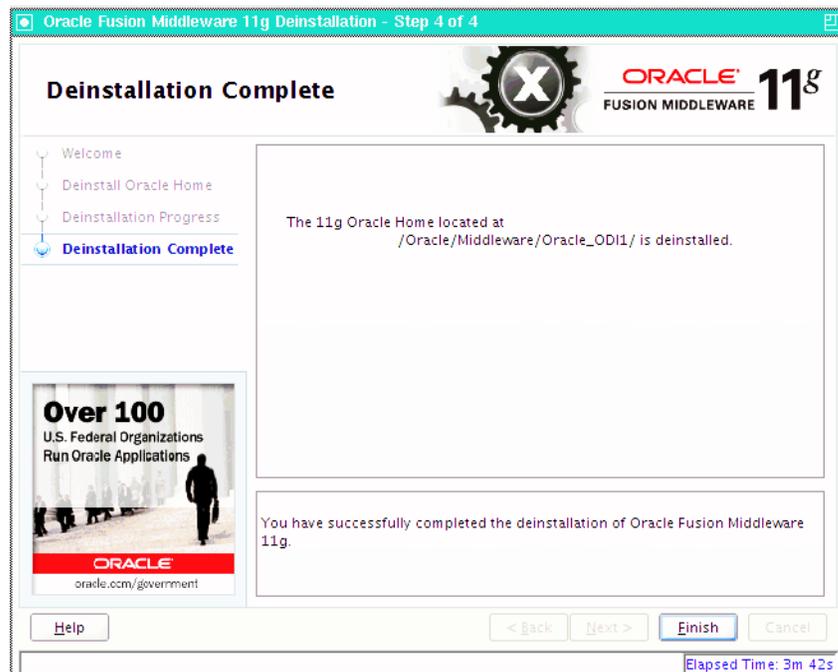
Figure D-3 Deinstallation Progress Screen



D.4 Deinstallation Complete Screen

This screen summarizes the deinstallation that was just completed.

Figure D-4 Deinstallation Complete Screen



Oracle Data Integrator Companion CD

This appendix describes the components that are provided on the Oracle Data Integrator Companion disk and instructions for manual installation.

- [Section E.1, "Oracle Data Integrator Companion Disk Components"](#)
- [Section E.2, "Manual Installation and Configuration Steps"](#)
- [Section E.3, "Installing the Java Standalone Agent on iSeries"](#)

E.1 Oracle Data Integrator Companion Disk Components

[Table E-1](#) provides the location and description of the components that are provided on the Oracle Data Integrator companion disk. These components must be manually installed.

Table E-1 Directory Structure of the Oracle Data Integrator Companion Installation Disk

Directory	Description
/agent_standalone	This folder contains the manual installation files for the ODI Standalone Agent in <code>oracledi-agent-standalone.zip</code> .
/demo	This folder contains demonstration files and samples in <code>oracledi-demo.zip</code> . NOTE: Demonstration files and samples are NOT installed with the Oracle Data Integrator GUI installer. To use the demonstration files, you must install them manually.
/misc/cdc-iseriess	This folder contains the manual installation files for the ODI CDC for AS/400.
/misc/biee-lineage	This folder that contains the Oracle Business Intelligence Enterprise Edition (OBIEE) and Oracle Data Integrator (ODI) metadata to build report-to-source data lineage wizard. For more information on this component's installation, see "Oracle Business Intelligence Enterprise Edition Data Lineage" in the <i>Oracle Fusion Middleware Connectivity and Knowledge Modules Guide for Oracle Data Integrator</i> .

Table E-1 (Cont.) Directory Structure of the Oracle Data Integrator Companion

Directory	Description
/misc/jde_world	<p>This folder contains the following JD Edwards (JDE) World program files:</p> <ul style="list-style-type: none"> ■ JDEWorldJDBC.jar This JDE World JDBC driver file must be in the userlib or driver folder. ■ WorldBase.jar This jar file must be in the userlib or driver folder. ■ config.xml This configuration file must be in the ODI_HOME/odi/bin folder. ■ jdeworld_example.properties This properties file is a template that you can make use of if you are using the JDE_SECURITY_FILE option in the IKM JDE World Control Append.
/sdk	This folder contains the manual installation files for ODI SDK Component in <code>oracledi-sdk.zip</code> .
/studio	This folder contains the manual installation files for ODI Studio in <code>oracledi-studio.zip</code> .
/xml-reference	This folder contains <code>oracledi-xml-reference.zip</code> which provides the technologies, actions and knowledge modules that can be imported into ODI.

E.2 Manual Installation and Configuration Steps

This section provides information on manually installing and configuring the components provided on the Oracle Data Integrator Companion disk.

Before performing the manual installation of the ODI components, create a directory on your disk that will be the ODI_HOME. For example, create a folder named `c:\oracle\odi11g\` on Windows operating systems.

Note: Oracle Data Integrator Components requires a Java Virtual Machine (JVM) to run. Make sure that a supported Java environment is set up on your machine prior to installing Oracle Data Integrator.

For a list of supported platforms, see the Oracle Fusion Middleware certification documents at http://www.oracle.com/technology/software/products/ias/files/fusion_certification.html.

E.2.1 Standalone Agent

To manually install the ODI Standalone Agent, do the following:

1. Unzip the `oracledi-agent-standalone.zip` file located in the target ODI_HOME directory.
2. Manually configure `odiparams.bat` (for Windows operating systems) or the `odiparams.sh` (for UNIX operating systems) as described in [Table 3-1, "Repository Connection Information"](#).
3. Set the `JAVA_HOME` or `ODI_JAVA_HOME` environment to the path of the JVM directory where the `/bin` directory resides.

For example:

```
setenv JAVA_HOME/usr/local/java
```

NOTE: The JVM that you point to must be a supported version. For a list of certified JVM versions, see

http://www.oracle.com/technology/software/products/ias/files/fusion_certification.html.

Tip: If you installed Oracle WebLogic Server, a JRE was installed on your system. You can use this location (the location of the JRE directory) to start the installer. The default location for the JRE is `MW_HOME/jdk16x` (on UNIX operating systems) or `MW_HOME\jdk16x` (on Windows operating systems), where `MW_HOME` is the Middleware Home directory.

On 64-bit platforms, the JRE location is the `JAVA_HOME` you used to install Oracle WebLogic Server.

For more information, refer to *Oracle Fusion Middleware Installation Guide for Oracle WebLogic Server*.

4. Configure the Standalone Agent in the topology as described in [Section 3.2.5](#).
5. Start the Standalone Agent as described in [Section 3.2.6](#).

E.2.2 ODI Studio and XML Reference

To manually install the ODI Studio and XML Reference, do the following:

1. Unzip `oracledi-studio.zip` in the `ODI_HOME` directory.
2. Unzip `oracledi-xml-reference.zip` in the `ODI_HOME` directory.
3. Start ODI Studio.
 - On UNIX operating systems:


```
ODI_HOME/oracledi/client/odi.sh
```
 - On Windows operating systems:


```
ODI_HOME\oracledi\client\odi.exe
```
4. When ODI Studio starts for the first time, it prompts you for location of the Java Virtual Machine. Provide the location of the JVM. Once you have provided the JVM location, Oracle Data Integrator Studio starts.

E.2.3 Demonstration Environment

The demonstration (demo) environment should be installed with an existing installation that includes the ODI Studio component.

To manually install the Demonstration environment, do the following:

1. Unzip `oracledi-demo.zip` in the `ODI_HOME` folder.
2. Set the `JAVA_HOME` or `ODI_JAVA_HOME` property to the path of the JVM directory where the `/bin` directory resides. For a list of certified JVM versions, see http://www.oracle.com/technology/software/products/ias/files/fusion_certification.html.

For example:

```
setenv JAVA_HOME /usr/local/java/bin
```

Tip: If you installed Oracle WebLogic Server, a JRE was installed on your system. You can use this location (the location of the JRE directory) to start the installer. The default location for the JRE is `MW_HOME/jdk16x` (on UNIX operating systems) or `MW_HOME\jdk16x` (on Windows operating systems), where `MW_HOME` is the Middleware Home directory.

On 64-bit platforms, the JRE location is the `JAVA_HOME` you used to install Oracle WebLogic Server.

For more information, refer to *Oracle Fusion Middleware Installation Guide for Oracle WebLogic Server*.

3. To start ODI Demonstration Environment:
 - On UNIX operating systems launch the following script:
`ODI_HOME/oracledi/demo/bin/startdemo.sh`
 - On Windows operating systems launch the following script:
`ODI_HOME\oracledi\demo\bin\startdemo.bat`
4. To stop ODI Demonstration Environment:
 - On UNIX operating systems launch the following script:
`ODI_HOME/oracledi/demo/bin/stopdemo.sh`
 - On Windows operating systems launch the following script:
`ODI_HOME\oracledi\demo\bin\stopdemo.bat`

The demonstration environment is used in the Oracle Data Integrator tutorials available on Oracle Technology Network.

E.3 Installing the Java Standalone Agent on iSeries

The Standalone Agent can be deployed on iSeries systems. This deployment enables you to start run-time agents and manage sessions using the iSeries server machine.

To manually install the ODI Standalone Agent on iSeries, do the following:

1. Create a temporary `TEMP_ODI_HOME` directory on a client machine.
2. Unzip the `oracledi-agent-standalone.zip` file in this `TEMP_ODI_HOME` directory. Optionally, add additional drivers and open tools as described in [Section 3.2.1](#).
3. Manually configure `odiparams.sh` as described in [Table 3–1, "Repository Connection Information"](#).
4. Configure the agent in the topology as described in [Section 3.2.5](#).
5. Using QShell (QSH), create a folder for the Standalone Agent in your iSeries system. This folder will be your `ODI_HOME`.
6. Transfer the content of the `TEMP_ODI_HOME` folder to this `ODI_HOME` folder using FTP.
7. Use the UNIX operating system scripts located in the `ODI_HOME/oracledi/agent/bin` directory for starting your agents or managing your sessions. See [Table 1–2, "Oracle Data Integrator Scripts and Tools"](#) for a description of these scripts.

Creating Repositories with Oracle Data Integrator Studio

This appendix describes how to create and administer Oracle Data Integrator repositories. An overview of the repositories used in Oracle Data Integrator is provided.

This appendix includes the following sections:

- [Section F.1, "Introduction to Oracle Data Integrator Repositories"](#)
- [Section F.2, "Creating Repository Storage Spaces"](#)
- [Section F.3, "Creating the Master Repository"](#)
- [Section F.4, "Connecting to the Master Repository"](#)
- [Section F.5, "Creating a Work Repository"](#)
- [Section F.6, "Connecting to a Work Repository"](#)

F.1 Introduction to Oracle Data Integrator Repositories

There are two types of repositories in Oracle Data Integrator:

- **Master Repository:** This is a data structure containing information on the topology of the company's IT resources, on security and on version management of projects and data models. This repository is stored on a relational database accessible in client/server mode from the different Oracle Data Integrator modules. In general, you need only one Master Repository. However, it may be necessary to create several Master Repositories in one of the following cases:
 - Project construction over several sites not linked by a high-speed network (off-site development, for example).
 - Necessity to clearly separate the interfaces' operating environments (development, test, production), including on the database containing the Master Repository. This may be the case if these environments are on several sites.
- **Work Repository:** This is a data structure containing information on data models, projects, and their use. This repository is stored on a relational database accessible in client/server mode from the different Oracle Data Integrator modules. Several Work Repositories can be created with several Master Repositories if necessary. However, a Work Repository can be linked with only one Master Repository for version management purposes.

The standard method for creating repositories is using Repository Creation Utility (RCU). RCU automatically manages storage space as well as repository creation. However, if you want to create the repositories manually, it is possible to manually create and configure the repositories.

The steps needed to create and configure repositories are detailed in the following sections:

- [Section F.2, "Creating Repository Storage Spaces"](#)
- [Section F.3, "Creating the Master Repository"](#)
- [Section F.4, "Connecting to the Master Repository"](#)
- [Section F.5, "Creating a Work Repository"](#)
- [Section F.6, "Connecting to a Work Repository"](#)

Note: Oracle recommends that you regularly perform the following maintenance operations: purge the execution logs in order to reduce the Work Repository size, and back up the Oracle Data Integrator repositories on the database.

Advanced actions for administering repositories are detailed in "Advanced Actions for Administering Repositories" in the *Oracle Fusion Middleware Developer's Guide for Oracle Data Integrator*.

F.2 Creating Repository Storage Spaces

Oracle Data Integrator repositories can be installed on database engines supported by Oracle Fusion Middleware 11g. For the latest list of supported databases versions as well as the requirements for each database, see:

http://www.oracle.com/technology/software/products/ias/files/fusion_certification.html

For each database that will contain a repository, a storage space must be created.

Caution: Oracle recommends that you store repositories in a different space from where your application data is kept (for example in a different schema for an Oracle database, or in a different database for Sybase or Microsoft SQL Server).

Your Master Repository can be stored in the same schema as one of your Work Repositories. A schema can only have one Master Repository and you cannot create two different Work Repositories in the same schema.

The examples in the following table are supplied as a guide:

Technology	Steps to follow
Oracle	<p>Create a schema to host the Master Repository and a schema to host the Work Repository.</p> <p>The schemas are created by executing the following SQL commands for each of the odim and odiw schemas:</p> <p>Master Repository:</p> <pre>SQL> create user MY_SCHEMA identified by MY_PASS default tablespace MY_TBS temporary tablespace MY_TEMP; SQL> grant connect, resource to MY_SCHEMA;</pre> <p>Work Repository:</p> <pre>SQL> create user MY_SCHEMA identified by MY_PASS default tablespace MY_TBS temporary tablespace MY_TEMP; SQL> grant connect, resource to MY_SCHEMA; SQL> grant execute on dbms_lock to MY_SCHEMA;</pre> <p>Note that the Work Repository database user requires the grant execute privilege on dbms_lock for the Work Repository schema.</p>
Microsoft SQL Server or Sybase ASE	<p>Where:</p> <p><i>MY_SCHEMA</i> corresponds to the name of the schema you want to create such as <i>odim</i> for the Master Repository and <i>odiw</i> for the Work Repository, for example.</p> <p><i>MY_PASS</i> corresponds to the password you have given to the default tablespace <i><MY_TBS></i>. This is the Oracle tablespace where the data will be stored.</p> <p><i>MY_TEMP</i> is the temporary default tablespace.</p> <p>Create a database <i>db_odim</i> to host the Master Repository and a database <i>db_odiw</i> to host the Work Repository. Create two logins, <i>odim</i> and <i>odiw</i>, that contain these databases by default.</p> <p>Use Enterprise Manager to create the two databases <i>db_odim</i> and <i>db_odiw</i>.</p> <p>NOTE: It is recommended that you configure the Microsoft SQL Server databases storing repository information with a case-sensitive collation. This enables reverse-engineering and allows you to create multiples objects with the same name but a different case (for example: <i>tablename</i> and <i>TableName</i>).</p> <p>Use Query Analyzer or I-SQL to launch the following commands:</p> <pre>CREATE LOGIN mylogin WITH PASSWORD = 'mypass', DEFAULT_DATABASE = defaultbase, DEFAULT_LANGUAGE = us_english; USE defaultbase; CREATE USER dbo FOR LOGIN mylogin; GO</pre> <p>Where:</p> <p><i>mylogin</i> corresponds to <i>odim</i> or <i>odiw</i>.</p> <p><i>mypass</i> corresponds to a password for these logins.</p> <p><i>defaultbase</i> corresponds to <i>db_odim</i> and <i>db_odiw</i> respectively.</p>

Technology	Steps to follow
DB2/400	<p>Create a library <i>odim</i> to host the Master Repository and a library <i>odiw</i> to host the Work Repository. Create two users <i>odim</i> and <i>odiw</i> who have these libraries by default.</p> <p>Master and work repository users should be granted access to tablespaces with at least 16k pagesize. The database must have temporary tablespace of at least 16k.</p> <p>Use the following commands to se the pagesize:</p> <pre>CREATE LARGE TABLESPACE ODI16 PAGESIZE 16 K MANAGED BY AUTOMATIC STORAGE ;</pre> <pre>GRANT USE OF TABLESPACE ODI16 TO USER ODIREPOS;</pre> <p>Note: The libraries must be created in the form of SQL collections.</p>
MySQL	<p>If you are using MySQL (release 5.5.14 or higher) to setup a repository, and the database charset is set to utf8, you will need to add the following parameters to the repository's jdbc URL to operate non-ASCII data correctly in Oracle Data Integrator Studio:</p> <pre>useUnicode=yes&characterEncoding=UTF-8</pre>

F.3 Creating the Master Repository

Creating the Master Repository creates an empty repository structure and seeds metadata (for example, technology definitions, or built-in security profiles) into this repository structure.

To create the Master Repository:

1. Open the New Gallery by choosing **File > New**.
2. In the New Gallery, in the Categories tree, select **ODI**.
3. Select from the Items list the **Master Repository Creation Wizard**.
4. Click **OK**.

The Master Repository Creation wizard opens.

5. Specify the **Database Connection** parameters as follows:
 - **Technology:** From the list, select the technology that will host your Master Repository. Default is *Oracle*.
 - **JDBC Driver:** The driver used to access the technology, that will host the repository.
 - **JDBC URL:** The URL used to establish the JDBC connection to the database.
Note that the parameters **JDBC Driver** and **URL** are synchronized and the default values are technology dependant.
 - **User:** The user ID / login of the owner of the tables (for example, *odim*).
 - **Password:** This user's password.
 - **DBA User:** Enter the Database Administrator user ID.
 - **DBA Password:** Enter the DBA's password.
6. Specify the **Repository Configuration** parameters as follows:
 - **ID:** Enter a specific ID for the new repository, other than the default *0*.

Note: Oracle recommends that this ID is unique and not used for any other Master Repository, as it affects imports and exports between repositories. For more information, see "Exporting/Importing" in the *Oracle Fusion Middleware Developer's Guide for Oracle Data Integrator*.

7. Click **Test** to test the connection to your Master Repository.

The Information dialog opens and informs you whether the connection has been established. If the connection fails, fix the connection to your Master Repository before moving to next step.

8. Click **Next**.

9. Do one of the following:

- Select **Use ODI Authentication** to manage users using ODI's internal security system and enter the following supervisor login information:

Properties	Description
Supervisor User	User name of the ODI supervisor.
Supervisor Password	This user's password
Confirm Password	This user's password

- Select **Use External Authentication** to use an external enterprise identity store, such as Oracle Internet Directory, to manage user authentication and enter the following supervisor login information:

Properties	Description
Supervisor User	User name of the ODI supervisor
Supervisor Password	This user's password

Note: In order to use the external authentication option, ODI Studio has to be configured for external authentication. See "Setting Up External Authentication" in *Oracle Fusion Middleware Developer's Guide for Oracle Data Integrator* for more information and restart ODI Studio.

10. Click **Next**.

11. Specify the password storage details:

- Select **Internal Password Storage** if you want to store passwords in the Oracle Data Integrator Master Repository
- Select **External Password Storage** if you want to use JPS Credential Store Framework (CSF) to store the data server and context passwords in a remote credential store. Indicate the **MBean Server Parameters** to access the credential store. Refer to "Managing the Security in Oracle Data Integrator" in *Oracle Fusion Middleware Developer's Guide for Oracle Data Integrator* for more information.

12. In the Master Repository Creation Wizard click **Finish** to validate your entries.

Oracle Data Integrator begins creating your Master Repository. You can follow the procedure on your Messages – Log. To test your Master Repository, refer to [Section F.4, "Connecting to the Master Repository"](#).

F.4 Connecting to the Master Repository

To connect to the Master repository:

1. Open the New Gallery by choosing **File > New**.
2. In the New Gallery, in the Categories tree, select **ODI**.
3. Select from the Items list **Create a New ODI Repository Login**.
4. Click **OK**.

The Repository Connection Information dialog appears.

5. Specify the Oracle Data Integrator connection details as follows:
 - **Login name:** A connection alias (for example: `Repository`)
The connection alias is used to connect to the Master Repositories and then to create the Work Repository as described in [Section F.5](#).
 - **User:** The ODI supervisor user name you have defined when creating the Master Repository or an ODI user name you have defined in the Security Navigator after having created the Master Repository.
 - **Password:** The ODI supervisor password you have defined when creating the Master Repository or an ODI user password you have defined in the Security Navigator after having created the Master Repository.
6. Specify the Database Connection (Master Repository) details as follows:
 - **User:** Database user ID/login of the schema (database, library) that contains the ODI Master Repository.
 - **Password:** This user's password.
 - **Driver List:** Select the driver required to connect to the DBMS supporting the Master Repository you have just created from the drop-down list.
 - **Driver Name:** The complete driver name.
 - **URL:** The URL used to establish the JDBC connection to the database hosting the repository.
7. Click **Test** to check that the connection is working.
8. Click **OK** to validate your entries.

F.5 Creating a Work Repository

Several Work Repositories can be designated with several Master Repositories if necessary. However, a Work Repository can be linked with only one Master Repository for version management purposes.

To launch a Work Repository creation:

1. In the Topology Navigator, go to the **Repositories** panel.
2. Right-click the Work Repositories node and select **New Work Repository**.

The **Create Work Repository** Wizard opens.

3. Specify the Oracle Data Integrator Work Repository connection details as follows:
 - **Technology:** Choose the technology of the server to host your Work Repository. Default is *Oracle*.
 - **JDBC Driver:** The driver used to access the technology, that will host the repository.
 - **JDBC URL:** The complete path of the data server to host the Work Repository. Note that the parameters **JDBC Driver** and **URL** are synchronized and the default values are technology dependant
 - **User:** User ID / login of the owner of the tables you are going to create and host of the Work Repository.
 - **Password:** This user's password.
4. Click **Test** to verify that the connection is working.
5. Click **Next**.

Oracle Data Integrator verifies whether a Work Repository already exists on the connection specified in Step 3:

- If an existing Work Repository is detected on this connection, the next steps will consist of attaching the Work Repository to the Master Repository. Refer to "Attaching and Deleting a Work Repository" in *Oracle Fusion Middleware Developer's Guide for Oracle Data Integrator* for further instructions.
 - If no Work Repository is detected on this connection, a new Work Repository is created. Continue with the creation of a new Work Repository and provide the Work Repository details in following step.
6. Specify the Oracle Data Integrator Work Repository properties:
 - **ID:** A specific ID for the new repository, rather than the default 0.

Note: Oracle recommends that this ID is unique and not used for any other Master Repository, as it affects imports and exports between repositories. For more information, see "Exporting/Importing" in the *Oracle Fusion Middleware Developer's Guide for Oracle Data Integrator*.

- **Name:** Give a unique name to your Work Repository (for example: *DEVWORKREP1*).
 - **Password:** Enter the password for the Work Repository.
 - **Type:** Select the type for the Work Repository:
 - **Development:** This type of repository allows management of design-time objects such as data models and projects (including interfaces, procedures, etc). A development repository includes also the run-time objects (scenarios and sessions). This type of repository is suitable for development environments.
 - **Execution:** This type of repository only includes run-time objects (scenarios, schedules and sessions). It allows launching and monitoring of data integration jobs in Operator Navigator. Such a repository cannot contain any design-time artifacts. Designer Navigator cannot be used with it. An execution repository is suitable for production environments.
7. Click **Finish**.

8. The Create Work Repository login dialog opens. If you want to create a login for the Work Repository, click **Yes** and you will be asked to enter the **Login Name** in a new dialog. If you do not want to create a Work Repository login, click **No**.
9. Click **Save** in the toolbar.

For more information, refer to [Section F.6, "Connecting to a Work Repository"](#).

F.6 Connecting to a Work Repository

To connect to an existing Work Repository and launch Designer Navigator:

1. Open the New Gallery by choosing **File > New**.
2. In the New Gallery, in the Categories tree, select **ODI**.
3. Select from the Items list **Create a New ODI Repository Login**.
4. Click **OK**.

The Repository Connection Information dialog opens.

5. Specify the Oracle Data Integrator connection details as follows:
 - **Login name:** A connection alias (for example: *Repository*)
The connection alias is used to connect to the Work Repositories and then to create the Master Repository as described in [Section F.4](#).
 - **User:** The ODI supervisor user name you have defined when creating the Master Repository or an ODI user name you have defined in the Security Navigator after having created the Master Repository.
 - **Password:** The ODI supervisor password you have defined when creating the Master Repository or an ODI user password you have defined in the Security Navigator after having created the Master Repository.
6. Specify the Database Connection (Master Repository) details as follows:
 - **User:** Database user ID/login of the schema (database, library) that contains the ODI Master Repository.
 - **Password:** This user's password.
 - **Driver List:** Select the driver required to connect to the DBMS supporting the Master Repository you have just created from the drop-down list.
 - **Driver Name:** The complete driver name.
 - **URL:** The URL used to establish the JDBC connection to the database hosting the repository.
7. Click **Test** to verify that the connection is working.
8. Select **Work Repository** and specify the Work Repository details as follows:
 - **Work repository name:** The name you gave your Work Repository in the previous step (*WorkRep1* in the example). You can display the list of Work Repositories available in your Master Repository by clicking on the button to the right of this field.
9. Click **OK** to validate your entries.

Customizing the ODI Credential Map Name

The Oracle Data Integrator Java EE Agent and Oracle Data Integrator Console use a credential map to store usernames and passwords. The default credential map name is `oracle.odi.credmap`. In rare situations, ODI users may need to change the default to a different credential map name for the ODI Java EE Agent and ODI Console.

G.1 What is stored in Credential Store?

ODI runtime uses credential store for the ODI Java EE Agent and ODI Console.

- ODI Java EE Agent boot AppId and Password
- ODI Console boot AppId and Password

In most usage scenarios, ODI uses the credential map name `oracle.odi.credmap`. In certain environments, however, the credential map name is decided at a global level and all components are required to use that credential map name. For example, an Oracle Fusion Middleware application may use the `oracle.apps.security` credential map name instead of the standard `oracle.odi.credmap`. In this case, the credential map name needs to be customized for the environment.

G.2 Executing the `updateCredMapInEar` Script

You can modify the credential map name specified in the Oracle Data Integrator templates by running the script `updateCredMapInEar`. [`sh` | `bat`]. If you execute the script with the `-EARFILE` parameter, you are able to modify a specific ear file and update the default credential map. You must execute this script before creating and deploying ODI Java EE Agent ear and before deploying ODI Console ear to a WebLogic Domain. After executing this script, all generated ODI Java EE Agent ears will carry the changed credential map name.

Usage:

```
updateCredMapInEar.sh -MAPNAME=<credential_map_name>  
[-EARFILE=<ear_file_to_update>
```

Where:

- `MAPNAME`: User supplied credential map name.
- `EARFILE`: This is optional parameter. If specified, the credential map inside the specified ear file will be modified.

If not specified, the credential map name in the default templates for ODI Java EE Agent (`oraclediagent.ear`) and ODI Console (`odiconsole.ear`) will be modified.

Examples:

```
updateCredMapInEar.sh -MAPNAME=oracle.apps.security
updateCredMapInEar.sh -MAPNAME=oracle.apps.security -EARFILE=$ODI_
HOME/setup/manual/oracledi-agent/oraclediagent.ear
```

G.3 Updating WLST Scripts for Credential Map Creation

If you have updated the credential map name in a template and then deployed this template, make sure that the credential store entries created for this deployed application use this new credential map name. See [Section 3.3.3, "Adding Credential Store Entries"](#) for more information on creating credential store entries.

In the `createcred` command, the value provided for the `map` parameter should be the customized credential map name, as shown in the example below:

```
createCred(map="acme.security.credmap", key="SUPERVISOR", user="SUPERVISOR",
password="supervisor1", desc="Key for Supervisor")
```

OPMN Configuration for Standalone Agent

Oracle Process Monitor and Notification server (OPMN) is used to stop, start and get process status.

The standalone agent is a standalone Java process started from a command line interface. This agent is typically deployed locally on the source or target machines for optimal integration flow performances. You can use OPMN to start, stop and protect the standalone agent in this situation.

H.1 Adding a Standalone Agent to OPMN

To add a standalone agent to OPMN, edit the `agentcreate.properties` contained in the `ODI_HOME/oracledi/agent/bin/` directory to match your agent and OPMN configuration.

Note: When editing the `agentcreate.properties` file, you must use a forward slash (/) as a path separator for both UNIX and Windows operating systems.

See [Table H-1](#) for a list of `agentcreate.properties` parameters. Note that the examples shown may differ from your system configuration.

Table H-1 Parameters in `agentcreate.properties`

Parameter	Description	Example (Your Configurations May Differ)
PORTNO	Startup port of the agent (as in <code>agent.bat</code> command line)	<code>PORTNO=9787</code>
JMXPORTNO	JMX port of the agent (<code>agent.bat</code> command line)	<code>JMXPORTNO=9787</code>
JAVA_HOME	Location of the JVM used by the agent	<code>JAVA_HOME=/scratch/username/Oracle_ODIMAIN/Middleware/jdk160_11</code>
ORACLE_OPMN_HOME	OPMN installation directory	<code>ORACLE_OPMN_HOME=/scratch/username/oracle/product/11.1.1/as_1</code>
ORACLE_ODI_HOME	Installation path of ODI	<code>ORACLE_ODI_HOME=/scratch/username/odi_standalone</code>
INSTANCE_HOME	Location of the OPMN instance into which the agent should be added	<code>INSTANCE_HOME=/scratch/username/oracle/product/11.1.1/as_1/instances/instance1</code>
COMPONENT_TYPE	Type of the component (should be <code>odiagent</code>)	<code>COMPONENT_TYPE=odiagent</code>

Table H-1 (Cont.) Parameters in agentcreate.properties

Parameter	Description	Example (Your Configurations May Differ)
COMPONENT_NAME	Name of the agent to add. This will be its identification in OPMN	COMPONENT_NAME=INTERFACE
ODI_MASTER_DRIVER	JDBC driver used to connect the Master Repository.	ODI_MASTER_DRIVER=oracle.jdbc.OracleDriver
ODI_MASTER_URL	JDBC URL used to connect the Master Repository.	ODI_MASTER_URL=jdbc:oracle:thin:adc6260039:1521:orcl
ODI_MASTER_USER	Database account used to connect the Master Repository.	ODI_MASTER_USER=SUPERVISOR
ODI_MASTER_ENCODED_PASS	Database account password. The password must be encoded with the "encode.[sh bat] <password>" command.	ODI_MASTER_ENCODED_PASS=hpfatLEoMR6zAK3T1PoP5LXDS
ODI_SECU_WORK_REPO	Name of the Work Repository to connect. This Work Repository must be attached to the master repository.	ODI_SECU_WORK_REPO=WORKREP
ODI_SUPERVISOR_ENCODED_PASS	OracleDI supervisor user password. The password must be encoded with the "encode.[sh bat] <password>" command.	ODI_SUPERVISOR_ENCODED_PASS=hpfatLEoMR6zAK3T1PoP5LXDS

Run the following script to add this agent to the OPMN configuration.

For UNIX operating systems:

```
ODI_HOME/oracledi/agent/bin/odi_opmn_addagent.sh
```

For Windows operating systems:

```
ODI_HOME/oracledi/agent/bin/odi_opmn_addagent.bat
```

H.2 Stopping the Agent

To stop all agent components in an Oracle instance using opmnctl

```
opmnctl stopproc process-type= odiagent
```

To stop a specific agent component, such as odiagent1, using opmnctl

```
opmnctl stopproc ias-component= odiagent1
```

H.3 Starting the Agent and Agent Components

To start all agent components in an Oracle instance using opmnctl:

```
opmnctl startproc process-type= odiagent
```

To start a specific agent component, such as odiagent1, using opmnctl:

```
opmnctl startproc ias-component=odiagent1
```

H.4 Determining the Status of Oracle HTTP Server

You can determine the status of Oracle HTTP Server using opmnctl:

```
opmnctl status
```

H.5 Deleting the Agent

Run the following script to delete this agent from the OPMN configuration.

For UNIX operating systems:

```
ODI_HOME/oracledi/agent/bin/odi_opmn_deleteagent.sh
```

For Windows operating systems:

```
ODI_HOME/oracledi/agent/bin/odi_opmn_deleteagent.bat
```

