Oracle® Fusion Middleware

Installation Guide for Oracle Service Bus

11*g* Release 1 (11.1.1)

E15017-02

January 2011

ORACLE®

Oracle Fusion Middleware Installation Guide for Oracle Service Bus, 11*g* Release 1 (11.1.1)

E15017-02

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Preface

This preface includes the following topics:

- Audience
- Documentation Accessibility
- Related Documents
- Conventions

Audience

This document is intended for users of Oracle Service Bus.

Documentation Accessibility

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

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Related Documents

For more information, see the following documents in the Oracle Fusion Middleware Release 7.0 documentation set or in the Oracle Other Product Two Release 6.1 documentation set:

- Oracle Fusion Middleware Developer's Guide for Oracle Service Bus

- *Oracle Fusion Middleware Administrator's Guide for Oracle Service Bus*

- *Oracle Fusion Middleware Concepts and Architecture for Oracle Service Bus*

- *Oracle Fusion Middleware Deployment Guide for Oracle Service Bus*

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.
italic	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.

1

Understanding Oracle Service Bus 11*g* Release 1 (11.1.1)

This chapter provides an overview of Oracle Service Bus 11*g* Release 1 (11.1.1) and this guide. This chapter includes the following topics:

- Section 1.1, "Oracle Service Bus Overview"

- Section 1.2, "Prerequisites for installing Oracle Service Bus"

- Section 1.3, "Installing Oracle Service Bus and Creating a Domain in a Development Environment"

- Section 1.4, "Installing Oracle Service Bus and Creating a Domain in a Production Environment"

- Section 1.5, "Installing Oracle Service Bus in a High Availability Environment"

- Section 1.6, "Understanding the Installation Types"

- Section 1.7, "Understanding the State of Oracle Service Bus Components After Installation"

1.1 Oracle Service Bus Overview

Oracle Service Bus combines intelligent message brokering with service monitoring and administration to provide a unified software product for implementing and deploying Service-Oriented Architecture (SOA) on your enterprise. This converged approach adds a scalable, dynamic routing and transformation layer to your enterprise infrastructure, with service lifecycle management capabilities for service registration, service usage, and Service Level Agreement (SLA) compliance.

Oracle Service Bus relies on Oracle WebLogic Server run-time facilities. It leverages the capabilities inherent in Oracle WebLogic Server to deliver functionality that is highly available, scalable, and reliable.

The installer for Oracle Service Bus features the following sub-components that can be installed on your system:

- **Oracle Service Bus Server:** The full set of components that comprise Oracle Service Bus, excluding Oracle Service Bus examples and the Oracle Service Bus IDE.

- **Oracle Service Bus IDE**: Oracle Service Bus Plug-in is an integrated design environment for Oracle Service Bus. You must install Oracle Enterprise Pack for Eclipse to use Oracle Service Bus IDE.

> **Note:** Oracle Service Bus IDE cannot be installed on an HP-UX or AIX operating system.

- **Oracle Service Bus Examples:** The Oracle Service Bus examples provide you with a quick and easy way to experience the run-time capability of using proxy services in your design environment; they demonstrate key features and help you get started with designing and configuring resources and services using the Oracle Service Bus Console. These examples are user-driven, pre-configured scenarios that use Oracle Service Bus to communicate with business services. The examples are based on typical business scenarios that benefit from using Oracle Service Bus proxy services to communicate between clients and business processes. You can run the examples to see how Oracle Service Bus operates in the run-time environment, or you can build the examples in the development environment to get more in-depth knowledge of how to configure the proxy service.

> **Note:** By default, the Oracle Service Bus examples are not installed in a typical installation. To install the examples, select the custom installation option. For more information, see Section 1.6, "Understanding the Installation Types".

1.2 Prerequisites for installing Oracle Service Bus

If you perform the Typical installation of Oracle WebLogic Server by using the Oracle WebLogic Server Installer, you can obtain the following components required by Oracle Service Bus:

- Oracle WebLogic Server
- Oracle Coherence
- Oracle Enterprise Pack for Eclipse

1.2.1 Oracle WebLogic Server

Oracle WebLogic Server provides the core services that ensure reliability, high availability, scalability, and a high-performing execution environment for your application.

Oracle WebLogic Server consists of the following sub-components that can be installed on your system:

- **Server:** Oracle WebLogic Server program files that contain the core Java Enterprise Edition 2 (Java EE 2) features and Apache Beehive.
- **Server Examples:** Oracle WebLogic Server and MedRec example domain and sample applications. These servers and sample applications demonstrate a variety of Java EE 2 features. Resources are provided to help you build, configure, and run each of the sample applications. You must install the Server sub-component to install and use the Server Examples.

Oracle WebLogic Server also comes with a JRockit JDK which is required to start the installer. If you choose to use a different JDK, you should refer to the *System Requirements and Supported Platforms for Oracle Fusion Middleware 11gR1* document to see which JDKs can be used with this version of Oracle Service Bus. This document is available on the Oracle Fusion Middleware Supported System Configurations page:

`http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-10`

```
0350.html
```

1.2.2 Oracle Coherence

Oracle Service Bus uses Oracle Coherence for its business service result caching functionality. Oracle Coherence is installed by default in a typical Oracle WebLogic Server installation. However, if you perform a custom Oracle WebLogic Server installation and do not install Oracle Coherence, result caching is not available for business services. For more information on result caching, see "Improving Performance by Caching Business Service Results" in the *Oracle Fusion Middleware Administrator's Guide for Oracle Service Bus*.

1.2.3 Oracle Enterprise Pack for Eclipse

Oracle Enterprise Pack for Eclipse (OEPE) is a certified set of Eclipse plug-ins designed to help develop, deploy and debug applications for Oracle WebLogic Server. Eclipse plug-ins facilitate development of Java SE, Java EE, Web Service, ORM, and Spring applications on Oracle WebLogic Server.

You must install OEPE to use Oracle Service Bus IDE. OEPE is installed as part of the Typical type of Oracle WebLogic Server installation, provided you download the WebLogic Server installer that contains OEPE (see "WebLogic Server Installers" in *Oracle Fusion Middleware Installation Guide for Oracle WebLogic Server*.). If you choose the Custom type of installation of Oracle WebLogic Server, be sure to select OEPE manually.

1.3 Installing Oracle Service Bus and Creating a Domain in a Development Environment

Figure 1–1 illustrates the process of installing Oracle Service Bus and creating a domain in a development environment.

Figure 1–1   Oracle Service Bus Install Flow for a Development Environment
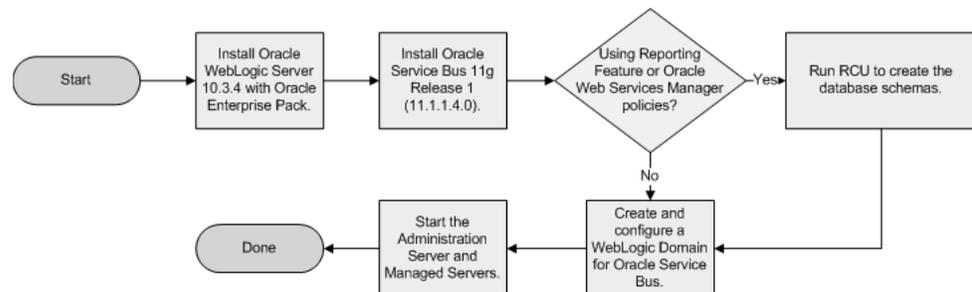
This flowchart describes the procedure to install Oracle Service Bus in a development environment. It is described in the surrounding text.

****

> **Note:** In a development environment, you can use Derby, an evaluation database included in your Oracle WebLogic Server installation. In this case, you are not required to use RCU to create and load schemas if the Oracle Web Services Manager functionality for Oracle Service Bus is not required.
>
> Be sure to select Evaluation Database if you are using the Custom installation option to install Oracle WebLogic Server. If you are using the Typical installation option, the Evaluation Database is installed by default.
>
> Reporting tables for Oracle Service Bus are created in the Evaluation Database when the server starts up for the first time. If you are using Oracle Fusion Middleware Configuration Wizard to create the Oracle Service Bus domain, configure the database type reporting as Derby, and set the password appropriately. You can ignore the Test Connections action in the wizard because the Evaluation Database starts only when Oracle WebLogic Server is started.

After installation and configuration (assuming Reporting Feature and Oracle Web Services Manager policies are not used), your topology would look similar to Figure 1–2. You can use this illustration to help verify the installation of Oracle WebLogic Server and Oracle Service Bus after installation and configuration.

Figure 1–2 Sample Topology for a Development Environment Installation
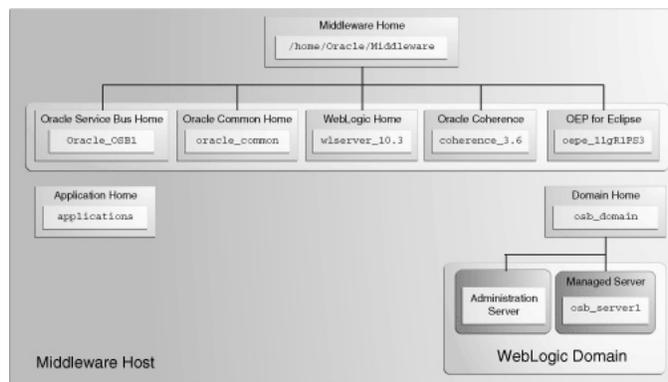
Topology after installation and configuration in a development environment. It is described in the surrounding text.

****

For more information about Fusion Middleware directory structures, refer to "Oracle Fusion Middleware Directory Structure" in *Oracle Fusion Middleware Installation Planning Guide*.

1.4 Installing Oracle Service Bus and Creating a Domain in a Production Environment

Figure 1–3 illustrates the process of installing Oracle Service Bus and creating a domain in a production environment.

Figure 1–3   Oracle Service Bus Install Flow for a Production Environment
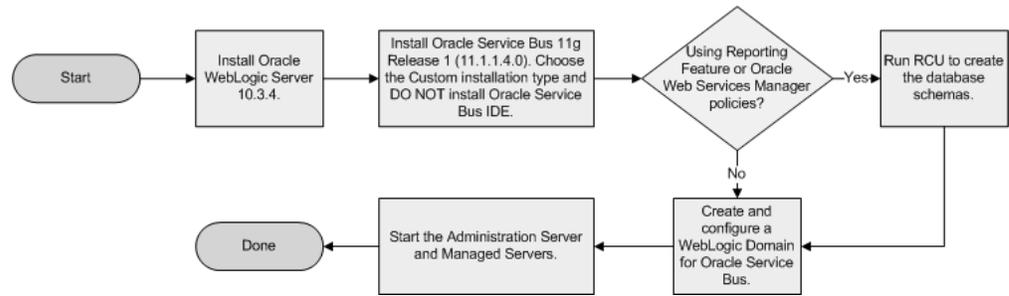
This flowchart describes the procedure to install Oracle Service Bus in a production environment. It is described in the surrounding text.

****

After installation and configuration (assuming Reporting Feature and Oracle Web Services Manager policies are not used), your topology would look similar to Figure 1–2. You can use this illustration to help verify the installation of Oracle WebLogic Server and Oracle Service Bus after installation and configuration.

Figure 1–4   Sample Topology for a Production Environment Installation
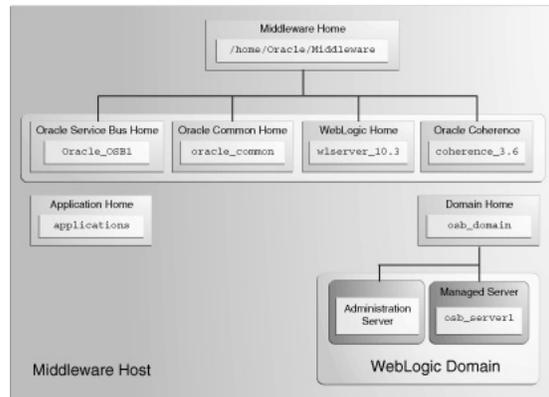
Topology after installation and configuration in a development environment. It is described in the surrounding text.

****

For more information about Fusion Middleware directory structures, refer to "Oracle Fusion Middleware Directory Structure" in *Oracle Fusion Middleware Installation Planning Guide*.

1.5 Installing Oracle Service Bus in a High Availability Environment

This guide does not explain how to install Oracle Service Bus in High Availability (HA) configurations. To install Oracle Service Bus in a High Availability configuration, refer to the following documents:

- "Oracle Service Bus and High Availability Concepts" in *Oracle Fusion Middleware High Availability Guide*

- "Understanding Oracle Service Bus High Availability" in *Oracle Fusion Middleware Deployment Guide for Oracle Service Bus*.

1.6 Understanding the Installation Types

During installation, you have the following options for choosing what components of Oracle Service Bus are installed:

- Typical Installation
- Custom Installation

1.6.1 Typical Installation

When you choose the **Typical** type of installation, the Oracle Service Bus 11*g* Installer installs the Oracle Service Bus Server and the binaries of Oracle Service Bus Integrated Development Environment (IDE) in a new Oracle home directory.

1.6.2 Custom Installation

When you choose the **Custom** type of installation, you can select the following components of Oracle Service Bus to install:

- Oracle Service Bus Server
- Oracle Service Bus Integrated Development Environment
- Oracle Service Bus Examples

> **Note:** Oracle Service Bus Server is a mandatory component.
>
> If you are installing Oracle Service Bus on a 64-bit machine, select the **Custom** installation type. You must de-select the Oracle Service Bus IDE option.

1.7 Understanding the State of Oracle Service Bus Components After Installation

This topic provides information about the state of Oracle Service Bus components after installation, including:

- Default SSL Configurations
- Administrator Server Password

1.7.1 Default SSL Configurations

By default, none of the Oracle Service Bus 11*g* components are installed with SSL configured. You must configure SSL for the Administration Server and Managed Servers by using the Configuration Wizard.

To configure SSL for the Administration Server, run the Configuration Wizard and select **SSL enabled** on the Configure Administration Server screen, as described in *Oracle Fusion Middleware Creating Domains Using the Configuration Wizard*.

To configure SSL for Managed Servers, run the Configuration Wizard and select **SSL enabled** on the Configure Managed Servers screen, as described in *Oracle Fusion Middleware Creating Domains Using the Configuration Wizard*.

1.7.2 Administrator Server Password

Password for the Administration Server is configured during domain creation. For security reasons, after installation, you should change the passwords of the various components so they have different values.

For more information, see "Changing the Administrative User Password" in *Oracle Fusion Middleware Administrator's Guide*.

2

Installing Oracle Service Bus 11*g*

This chapter explains how to install Oracle Service Bus. It includes the following topics:

- Section 2.1, "Installation Instructions"
- Section 2.2, "Configure Your Domain"

2.1 Installation Instructions

This section contains instructions for installing Oracle Service Bus onto your system. The following topics are covered:

- Section 2.1.1, "Obtaining the Software"
- Section 2.1.2, "Starting the Installer"
- Section 2.1.3, "Installation Log Files"
- Section 2.1.4, "Installation Screens and Instructions"

2.1.1 Obtaining the Software

See "Obtain the Oracle Fusion Middleware Software" in *Oracle Fusion Middleware Installation Planning Guide* for information on where to obtain the software.

Select one of the download locations and download "Service Bus." This will be saved to your system as a `.zip` archive file.

After you download the archive file, unpack the archive file into a directory of your choice on the machine where you will be performing the installation.

2.1.2 Starting the Installer

To start the installer, go to the directory where you unpacked the archive file and switch to the `Disk1` directory.

On UNIX operating systems:

```
cd unpacked_archive_directory/Disk1
./runInstaller -jreLoc JRE_LOCATION
```

On Windows operating systems:

```
cd unpacked_archive_directory\Disk1
setup.exe -jreLoc JRE_LOCATION
```

The installer requires the full path to the location of a Java Runtime Environment (JRE) on your system. When you installed Oracle WebLogic Server, a JRE was installed on your system in the jdk160_21 directory inside the Middleware home. You can use this location as the *JRE_LOCATION* to start the installer.

If no JRE location is specified, you will be prompted to provide the location of your JRE before the installer is started:

```
[> ./runInstaller
Starting Oracle Universal Installer...

Checking if CPU speed is above 300 MHz.    Actual 2999 MHz    Passed
Checking Temp space: must be greater than 150 MB.   Actual 58940 MB    Passed
Checking swap space: must be greater than 512 MB.   Actual 4047 MB    Passed
Checking monitor: must be configured to display at least 256 colors.   Actual 256
Passed
Preparing to launch Oracle Universal Installer from /tmp/OraInstall2010-12-14_
08-03-44AM. Please wait ...
Please specify JRE/JDK location ( Ex. /home/jre ), <location>/bin/java should
exist :
```

Specify the absolute path to the JRE on your system before you continue.

> **Note:** If you are installing Oracle Service Bus on a 64-bit UNIX or Windows operating system with a 32-bit JDK, you must specify the *JRE_LOCATION* using the -jreLoc option from the command line. The option to provide your *JRE_LOCATION* at the prompt is not supported in such cases, and the installer will not start.

2.1.3 Installation Log Files

The installer writes logs files to the *Oracle_Inventory_Location*/log (on UNIX operating systems) or *Oracle_Inventory_Location*\logs (on Windows operating systems) directory. Refer to Section D.2, "Installation and Configuration Log Files" for more information about the log files and their contents.

2.1.4 Installation Screens and Instructions

Follow the instructions in Table 2–1 to install Oracle Service Bus.

If you need additional help with any of the installation screens, refer to Appendix B, "Oracle Service Bus Software Installation Screens" or click **Help** to access the online help.

Table 2–1   Installation Flow for Oracle Service Bus

No.	Screen	Description and Action Required
1	Welcome Screen	Click **Next** to continue.
2	Install Software Updates Screen	Select the method you want to receive software updates.
		Click **Next** to continue.
3	Installation Location Screen	Specify the Oracle Middleware home and Oracle home locations.
		The Oracle Common home (oracle_common) directory will automatically be created inside the Middleware home; do not use oracle_common as the name of your Oracle home directory.
		Click **Next** to continue.

Table 2–1   (Cont.) Installation Flow for Oracle Service Bus

No.	Screen	Description and Action Required
4	Installation Type Screen	Select **Typical** or **Custom**.
		NOTE: If you are installing Oracle Service Bus on a 64-bit machine, select the **Custom** installation type. You must deselect the Oracle Service Bus IDE option.
		For more information, see Section 1.6, "Understanding the Installation Types".
		Click **Next** to continue.
5	Components to Install Screen	This screen only appears if you selected **Custom** on the Installation Type Screen. If you selected **Typical**, skip to the Prerequisite Checks Screen.
		Select the components you want to install, then click **Next** to continue.
		NOTE: If you are installing on an HP-UX or AIX operating system, you must make sure that **Oracle Service Bus IDE** is not selected.
6	Prerequisite Checks Screen	Click **Next** to continue.
7	Product Home Location Screen	Specify the WebLogic Server home location. If you are installing Oracle Service Bus Integrated Development Environment (IDE), you are also asked to enter the path to the Oracle Enterprise Pack for Eclipse installed on your machine. By default, this directory under your Middleware home is named `oepe_11gR1PS3`.
		Click **Next** to continue.
8	Installation Summary Screen	Review this summary and decide whether to start the installation. If you want to modify any of the configuration settings at this stage, select a topic in the left navigation page and modify your choices.
		To install Oracle Service Bus, click **Install**.
9	Installation Progress Screen	This screen shows the progress of the installation.
		When the progress shows 100% complete, click **Next** to continue.
10	Installation Completed Screen	Click **Finish** to dismiss the screen.

2.2 Configure Your Domain

After this is complete, you are ready to run the Configuration Wizard to configure your domain for Oracle Service Bus. Go to Chapter 3, "Configuring Oracle Service Bus" for instructions.

3

Configuring Oracle Service Bus

This chapter describes how to configure Oracle Service Bus after you have installed the software. It includes the following topics:

- Section 3.1, "Configuration Instructions"

- Section 3.2, "Creating a WebLogic Domain with Only Oracle Service Bus"

- Section 3.3, "Creating a Single WebLogic Domain with Oracle Service Bus and Oracle SOA Suite"

- Section 3.4, "Extending an Oracle Service Bus WebLogic Domain to Support Oracle SOA Suite"

- Section 3.5, "Extending an Oracle SOA Suite WebLogic Domain to Support Oracle Service Bus"

- Section 3.6, "Starting the Servers"

- Section 3.7, "Verifying Your Oracle Service Bus Installation and Domain Configuration"

- Section 3.8, "Start Menu Commands on Windows Operating Systems"

- Section 3.9, "Getting Started with Oracle Service Bus After Installation and Configuration"

3.1 Configuration Instructions

After the installation is complete, you must run the Oracle Fusion Middleware Configuration Wizard to create and configure a new WebLogic domain, and choose the products that you want to configure in that domain. If you have an existing domain, you can use the Configuration Wizard to extend the existing domain to support additional products and features.

This new domain will contain the Administration Server and other Managed Servers depending on the products you choose to configure.

After you have created a new domain, you can later extend that domain if you want to add more products to that domain.

See "Understanding Oracle WebLogic Server Domains" in *Oracle Fusion Middleware Understanding Domain Configuration for Oracle WebLogic Server* for more information about Oracle WebLogic Server administration domains.

3.1.1 Using Default Settings for Managed Servers

During the configuration, the Oracle Fusion Middleware Configuration Wizard automatically creates managed servers in the domain to host the Fusion Middleware system components. Oracle recommends that you use the default configuration settings for these managed servers. If you modify the default configuration settings, then you will have to perform some manual configuration steps before the Fusion Middleware environment can be started.

3.1.2 Using Default Setting for Targeting Deployments and Services

On the Select Optional Configuration screen, if you select **Deployments and Services**, you will get the following two screens for additional configuration:

- Target Deployments to Clusters or Servers screen

- Target Services to Clusters or Servers screen

These screens allow you to select deployments, such as applications and libraries, and services to target them to a particular cluster or server. However, you should not change the Oracle Service Bus deployment targets unless specifically instructed in the documentation.

3.1.3 Shutting Down Running Managed Servers

Before you start the Configuration Wizard, you must shut down any Managed Servers that are currently running. If you do not, validation of your Managed Servers will fail due to port number conflicts from the managed servers that are currently running.

For more information, see "Starting and Stopping Oracle Fusion Middleware" in *Oracle Fusion Middleware Administrator's Guide*.

3.1.4 Starting the Oracle Fusion Middleware Configuration Wizard

The Configuration Wizard is located in the *OSB_ORACLE_HOME*/common/bin (on UNIX operating systems) or *OSB_ORACLE_HOME*\common\bin (on Windows operating systems) directory. Go to this directory, then run the config.sh (on UNIX operating systems) or config.cmd (on Windows operating systems) script to start the Configuration Wizard:

On UNIX operating systems:

```
./config.sh
```

On Windows operating systems:

```
config.cmd
```

If you are using a 32-bit operating system, Oracle JRockit SDK is installed as part of the Oracle WebLogic installation. This is the JDK that the Configuration Wizard will use by default. If you want to invoke the Configuration Wizard with the Sun JDK, do the following prior to starting the Configuration Wizard:

1. Set the JAVA_HOME environment variable to the location of the Sun JDK. For example, you can set it to the Sun JDK that was installed with Oracle WebLogic Server in the *MW_HOME*/jdk160_21 (on UNIX operating systems) or *MW_HOME*\jdk160_21 (on Windows operating systems) directory.

2. Set the JAVA_VENDOR environment variable to "Sun."

After you have started the Configuration Wizard, find the scenario that best describes your environment, and proceed to that section to configure your domain:

- Section 3.2, "Creating a WebLogic Domain with Only Oracle Service Bus"
- Section 3.3, "Creating a Single WebLogic Domain with Oracle Service Bus and Oracle SOA Suite"
- Section 3.4, "Extending an Oracle Service Bus WebLogic Domain to Support Oracle SOA Suite"
- Section 3.5, "Extending an Oracle SOA Suite WebLogic Domain to Support Oracle Service Bus"

3.1.5 Configuration Log Files

To create a log file for your configuration session, use the `-log=log_filename` parameter when you start the Configuration Wizard.

On UNIX operating systems:

```
./config.sh -log=log_filename
```

On Windows operating systems:

```
config.cmd -log=log_filename
```

Log files of your configuration session are created in the *OSB_ORACLE_ HOME*/common/bin (on UNIX operating systems) or *OSB_ORACLE_ HOME*\common\bin (on Windows operating systems) directory. For more information about the Configuration Wizard log files, see Section D.2, "Installation and Configuration Log Files".

3.2 Creating a WebLogic Domain with Only Oracle Service Bus

This section describes how to create a WebLogic Domain with only Oracle Service Bus. Performing the instructions in this section deploys the following:

- WebLogic Administration Server
- Managed Server for Oracle Service Bus
- Application deployed on the Managed Server
- Oracle Service Bus Administration Console deployed on the Oracle Service Bus Server

Begin by starting the Configuration Wizard, as described in Section 3.1.4, "Starting the Oracle Fusion Middleware Configuration Wizard".

After you have started the Configuration Wizard, follow the instructions in "Creating a WebLogic Domain" in *Oracle Fusion Middleware Creating Domains Using the Configuration Wizard* to create a new WebLogic domain for your Oracle Service Bus components.

The following screens have special instructions for configuring Oracle Service Bus; they are described in the remainder of this section:

- Select Domain Source Screen
- Configure JDBC Component Schema Screen

Select Domain Source Screen

On the Select Domain Source screen, select **Generate a domain configured automatically to support the following products:**, then select one of the following options:

- **Oracle Service Bus for Developers - 11.1.1.4 [Oracle_OSB1]**

    Use this option to create a single server to function as WebLogic Administration Server and Managed Server. This deployment option is ideal for development environments.

- **Oracle Service Bus - 11.1.1.4 Oracle_OSB1**

    Use this option to install and configure any of the following:

    - A domain with a single server that functions as both Administration Server and Managed Server

    - A non-clustered domain with an Administration Server and a single Managed Server

    - A domain with an Administration Server and a cluster of one or more Managed Servers

After selecting either option, the following components are also selected by default as dependencies:

- **Oracle JRF - 11.1.1.0 [oracle_common]**

- **WebLogic Advanced Web Services for JAX-RPC Extension - 10.3.4.0 [wlserver_ 10.3]**

In addition, after selecting either **Oracle Service Bus for Developers - 11.1.1.4 [Oracle_ OSB1]** or **Oracle Service Bus - 11.1.1.4 [Oracle_OSB1],** you can also select **Oracle Service Bus OWSM Extension - 11.1.1.4 [Oracle_OSB1]** to create a domain with Oracle Service Bus with runtime support for Oracle Web Services Manager policies. If you select this component, **Oracle WSM Policy Manager - 11.1.1.0 [oracle_common]** is also selected as a dependency.

In addition, select **Oracle Enterprise Manager - 11.1.1.0 [oracle_common]** if you want to create or edit Oracle Web Services Manager policies using Oracle Enterprise Manager Fusion Middleware Control 11g R1 (11.1.1.1.0).

Configure JDBC Component Schema Screen

If you choose to use the Derby evaluation database, make sure the following are selected on this screen:

- **Driver** - Derby's Driver (Type 4) Versions:A

- **Vendor** - Derby

- **DBMS/Service** - osbexamples

- **Host Name** - localhost

You can ignore the results of connection testing if you are using the evaluation database.

3.3 Creating a Single WebLogic Domain with Oracle Service Bus and Oracle SOA Suite

This section describes how to create a single WebLogic Domain with both Oracle Service Bus and Oracle SOA Suite components. Performing the instructions in this section deploys the following:

- WebLogic Administration Server

- A single Managed Server for Oracle Service Bus and Oracle SOA Suite, or one Managed Server for Oracle Service Bus and one Managed Server for Oracle SOA Suite

- Applications deployed on the Managed Server

- Oracle SOA Suite Console and Oracle Service Bus Administration Console deployed on the Administration Server

3.3.1 Installing the Latest Version of Oracle SOA Suite

If you do not already have Oracle SOA Suite installed on your system, follow the instructions in *Oracle Fusion Middleware Installation Guide for Oracle SOA Suite and Oracle Business Process Management Suite* to install the latest version of Oracle SOA Suite.

3.3.2 Instructions for Creating the Domain

After you have Oracle Service Bus and Oracle SOA Suite installed on your system, begin domain creation by starting the Configuration Wizard, as described in Section 3.1.4, "Starting the Oracle Fusion Middleware Configuration Wizard".

After you have started the Configuration Wizard, follow the instructions in "Creating a WebLogic Domain" in *Oracle Fusion Middleware Creating Domains Using the Configuration Wizard* to create a new WebLogic domain for your Oracle Service Bus and Oracle SOA Suite components.

The following screens have special instructions for this configuration; they are described in the remainder of this section:

- Select Domain Source Screen

- Configure Managed Servers Screen

Select Domain Source Screen

On the Select Domain Source screen, select **Generate a domain configured automatically to support the following products:** and then select the following:

- **Oracle SOA Suite - 11.1.1.0 [Oracle_SOA1]**

  Both **Oracle JRF - 11.1.1.0 [oracle_common]** and **Oracle WSM Policy Manager - 11.1.1.0 [oracle_common]** are automatically selected as dependencies.

- **Oracle Service Bus - 11.1.1.4 [Oracle_OSB1]**

  WebLogic Advanced Web Services for JAX-RPC Extension - 10.3.4.0 [wlserver_10.3] is also automatically selected as a dependency.

Configure Managed Servers Screen

If you want to configure a single Managed Server for Oracle Service Bus and Oracle SOA Suite, do the following:

On the Configure Managed Servers screen, delete the default `osb_server1` by selecting `osb_server1` and clicking **Delete**. Then modify the name of `soa_server1` as `osb_server1` by manually editing the name in the **Name** column. Alternatively, you may delete `soa_server1` and rename `osb_server1` to `soa_server1`.

> **Note:** This optional step is required only if you want to have Oracle SOA Suite and Oracle Service Bus running in the same virtual machine. If you skip this step, you will configure a Managed Server each for Oracle SOA Suite and Oracle Service Bus.

3.4 Extending an Oracle Service Bus WebLogic Domain to Support Oracle SOA Suite

This section describes how to extend an existing Oracle Service Bus domain to support Oracle SOA Suite. Performing the instructions in this section deploys the following:

- Oracle SOA Suite and Oracle Service Bus on the same Managed Server, or one Managed Server each for Oracle Service Bus and Oracle SOA Suite

- Applications deployed on the Managed Server

- Oracle Service Bus Administration Console deployed on the Administration Server

3.4.1 Installing the Latest Version of Oracle SOA Suite

If you do not already have Oracle SOA Suite installed on your system, follow the instructions in *Oracle Fusion Middleware Installation Guide for Oracle SOA Suite and Oracle Business Process Management Suite* to install the latest version of Oracle SOA Suite.

3.4.2 Instructions for Extending the Domain

Begin by starting the Configuration Wizard, as described in Section 3.1.4, "Starting the Oracle Fusion Middleware Configuration Wizard".

After you have started the Configuration Wizard, follow the instructions in "Extending WebLogic Domains" in *Oracle Fusion Middleware Creating Domains Using the Configuration Wizard* to extend your existing Oracle Service Bus domain for Oracle SOA Suite.

The following screens have special instructions for this configuration; they are described in the remainder of this section:

- Select Extension Source Screen

- Configure Managed Servers Screen

Select Extension Source Screen

On the Select Extension Source screen, select the **Oracle SOA Suite - 11.1.1.0 [Oracle_SOA1]** domain configuration option. The **Oracle WSM Policy Manager - 11.1.1.0 [oracle_common]** option is also automatically selected.

Configure Managed Servers Screen

If you want to configure a single Managed Server for Oracle Service Bus and Oracle SOA Suite, do the following:

On the Configure Managed Servers screen, delete the default `osb_server1` by selecting `osb_server1` and clicking **Delete**. Then modify the name of `soa_server1` as `osb_server1` by manually editing the name in the **Name** column. Alternatively, you may delete `soa_server1` and rename `osb_server1` to `soa_server1`.

> **Note:** This optional step is required only if you want to have Oracle SOA Suite and Oracle Service Bus running in the same virtual machine. If you skip this step, you will configure a Managed Server each for Oracle SOA Suite and Oracle Service Bus.

3.5 Extending an Oracle SOA Suite WebLogic Domain to Support Oracle Service Bus

This section describes how to extend an existing Oracle SOA Suite domain to support Oracle Service Bus. Performing the instructions in this section deploys the following:

- Oracle Service Bus and Oracle SOA Suite on the same Managed Server, or one Managed Server each for Oracle Service Bus and Oracle SOA Suite

- Applications deployed on the Managed Server

- Oracle Service Bus Administration Console deployed on the Administration Server

3.5.1 Selecting the "Refresh Replica at Startup" Option

This scenario requires that the following procedure be performed prior to configuring the domain and components:

1. Go to the WebLogic Server Administration console.

2. Select Domain (top of the tree in the navigation panel on the left side).

3. Select the **Security** tab.

4. Select the **Embedded** tab.

5. Select the **Refresh Replica At Startup** option.

6. Save and apply your changes.

3.5.2 Configuring Your Domain

Begin by starting the Configuration Wizard, as described in Section 3.1.4, "Starting the Oracle Fusion Middleware Configuration Wizard".

After you have started the Configuration Wizard, follow the instructions in "Extending WebLogic Domains" in *Oracle Fusion Middleware Creating Domains Using the Configuration Wizard* to extend your Oracle SOA Suite domain for Oracle Service Bus.

The following screens have special instructions for this configuration; they are described in the remainder of this section:

- Select Extension Source Screen

- Configure Managed Servers Screen

Select Extension Source Screen

On the Select Extension Source screen, select the **Oracle Service Bus - 11.1.1.4 [Oracle_OSB1]** domain configuration option. The **WebLogic Advanced Web Services for JAX-RPC Extension - 10.3.4.0 [wlserver_10.3]** option is also automatically selected.

Configure Managed Servers Screen

If you want to configure a single Managed Server for Oracle Service Bus and Oracle SOA Suite, do the following:

On the Configure Managed Servers screen, delete the default `osb_server1` by selecting `osb_server1` and clicking **Delete**. Then modify the name of `soa_server1` as `osb_server1` by manually editing the name in the **Name** column. Alternatively, you may delete `soa_server1` and rename `osb_server1` to `soa_server1`.

> **Note:** This optional step is required only if you want to have Oracle SOA Suite and Oracle Service Bus running in the same virtual machine. If you skip this step, you will configure a Managed Server each for Oracle SOA Suite and Oracle Service Bus.

3.6 Starting the Servers

To get your deployments up and running, you must start the Administration Server and various Managed Servers:

- Section 3.6.1, "Starting the Administration Server"
- Section 3.6.2, "Starting the Managed Servers"
- Section 3.6.3, "Starting the Servers Using Non-Default Port Numbers and Remote Hosts"
- Section 3.6.4, "Verifying That the Servers Have Started"

3.6.1 Starting the Administration Server

To start the Administration Server, run the `startWebLogic.sh` (on UNIX operating systems) or `startWebLogic.cmd` (on Windows operating systems) script in the directory where you created your new domain.

On UNIX systems:

DOMAIN_HOME/startWebLogic.sh

On Windows systems:

DOMAIN_HOME\startWebLogic.cmd

The *DOMAIN_HOME* consists of your domain location and domain name, which was specified on the Specify Domain Name and Location Screen in the Configuration Wizard.

3.6.2 Starting the Managed Servers

To start the Managed Servers, run the *DOMAIN_HOME*/bin/startManagedWebLogic.sh (on UNIX operating systems) or *DOMAIN_HOME*\bin\startManagedWebLogic.cmd (on Windows operating systems) script. These Managed Servers must be started from the command line.

This command also requires that you specify a server name. The servers that need to be started (depending on your configuration) are:

- `soa_server1` (Oracle SOA Server)
- `osb_server1` (Oracle Service Bus Server)

For example, to start Oracle SOA Server on a UNIX system:

```
DOMAIN_HOME/bin/startManagedWebLogic.sh soa_server1
```

On Windows systems:

```
DOMAIN_HOME\bin\startManagedWebLogic.cmd soa_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.

If you do not know the names of the Managed Servers that need to be started, you can view the contents of the following file on UNIX systems:

```
DOMAIN_HOME/startManagedWebLogic_readme.txt
```

On Windows systems:

```
DOMAIN_HOME\startManagedWebLogic_readme.txt
```

Or, you can access the Administration Server console at the following URL:

```
http://host:admin_server_port/console
```

Supply the user name and password that you specified on the Configure Administrator Username and Password Screen of the Configuration Wizard. Then, navigate to **Environment > Servers** to see the names of your managed servers.

3.6.3 Starting the Servers Using Non-Default Port Numbers and Remote Hosts

If your Administration Server is using a non-default port, or resides on a different host than your managed servers (in a distributed environment), you must also specify the URL to access your Administration Server.

On UNIX systems:

```
DOMAIN_HOME/bin/startManagedWebLogic.sh soa_server1 http://administration_server_
host:administration_server_port
```

On Windows systems:

```
DOMAIN_HOME\bin\startManagedWebLogic.cmd soa_server1 http://administration_server_
host:administration_server_port
```

Instead of being prompted for the Administration Server user name and password, you can also specify them directly from the command lime.

On UNIX systems:

```
DOMAIN_HOME/bin/startManagedWebLogic.sh soa_server1 http://administration_server_
host:administration_server_port -Dweblogic.management.username=user_name
-Dweblogic.management.password=password
```

On Windows systems:

```
DOMAIN_HOME\bin\startManagedWebLogic.cmd soa_server1 http://administration_server_
host:administration_server_port -Dweblogic.management.username=user_name
```

```
-Dweblogic.management.password=password
```

3.6.4 Verifying That the Servers Have Started

When the servers are started, at the end of the console, you will see lines similar to the following:

```
<Apr 16, 2009 5:10:59 PM PDT> <Notice> <WebLogicServer> <BEA-000332> <Started
WebLogic Managed Server "osb_server1" for domain "base_domain" running in
Development Mode>
<Apr 16, 2009 5:10:59 PM PDT> <Notice> <WebLogicServer> <BEA-000365> <Server state
changed to RUNNING>
<Apr 16, 2009 5:10:59 PM PDT> <Notice> <WebLogicServer> <BEA-000360> <Server
started in RUNNING mode>
```

3.7 Verifying Your Oracle Service Bus Installation and Domain Configuration

After completing the installation and configuration of Oracle Service Bus, you can verify the installation as follows:

- Verify whether you can access the Oracle Service Bus Administration Console.

  The URL for the console is:

  ```
  http://hostname:osb_port_number/sbconsole
  ```

  If the Oracle Service Bus Console starts working, your installation of Oracle Service Bus was successful.

- If you installed Oracle Enterprise Pack for Eclipse with Oracle WebLogic Server, you can try to start the Oracle Service Bus Integrated Development Environment (IDE) to verify the installation.

  To launch the Oracle Service Bus IDE:

  - On Windows operating systems, go to the **Start** menu and select **Programs > Oracle Service Bus 11g - Home 1 > Oracle Enterprise Pack for Eclipse**.

  - On UNIX operating systems, go to the *MW_HOME*/oepe_11gR1PS3 directory and run the following command:

    ```
    ./eclipse
    ```

- Verify your Oracle Service Bus directory structure.

  Use Figure 1–2, "Sample Topology for a Development Environment Installation" and Figure 1–4, "Sample Topology for a Production Environment Installation" as guides.

3.8 Start Menu Commands on Windows Operating Systems

If you are installing Oracle WebLogic Server and Oracle Service Bus on the Windows operating system, a set of commands are added to the Start menu. You can use them to launch product components and tools, such as Configuration Wizard. You can also use them to perform some basic administrative tasks, such as starting or stopping servers. The Start menu commands are shown as follows:

Oracle WebLogic Server

The Start menu commands that are created after the installation of Oracle WebLogic Server.

****

Oracle Service Bus
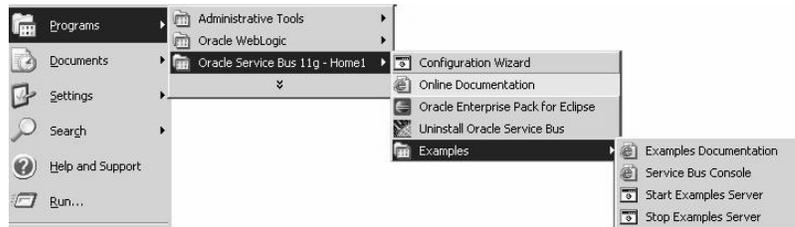
The Start menu commands that are created after the installation of Oracle Service Bus.

****

3.9 Getting Started with Oracle Service Bus After Installation and Configuration

After successful installing and configuration of Oracle Service Bus, refer to the "Introduction" chapter in the *Oracle Fusion Middleware Deployment Guide for Oracle Service Bus*.

4

Silent Installation and Deinstallation

This appendix contains information you need to know to perform a silent installation or deinstallation of Oracle Service Bus.

- About Silent Installation and Deinstallation
- Oracle Service Bus Response Files

4.1 About Silent Installation and Deinstallation

For information about silent installation and deinstallation, refer to "Silent Installation and Deinstallation" in *Oracle Fusion Middleware Installation Planning Guide*.

4.2 Oracle Service Bus Response Files

Before doing a silent installation or deinstallation, you must provide information specific to your installation or deinstallation in a response file. The installer will fail if you attempt an installation using a response file that is not configured correctly. Response files are text files that you can create or edit in a text editor

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.

To create a response file for silent deinstallation, repeat the same procedure by clicking **Save** on the Deinstall Oracle Home Screen.

4.2.1 Installation Response Files

Table 4–1 lists the installation response files provided in the `Disk1/stage/Response` (on UNIX operating systems) or `Disk1\stage\Response` (on Windows operating systems) directory:

Table 4–1   Oracle Service Bus Installation Response File Templates

Template	Description
custom_installtype.rsp	This is the template response file that should be used if you want to customize the products installed on your system.
	The equivalent using the GUI would be to run the installer and select **Custom** on the Installation Type Screen. In the response file, you must specify which products you want to install.
	See Section 4.2.1.1, "Contents of the custom_installtype.rsp Response File" to view the contents of this file.
typical_installtype.rsp	This is the template response file that should be used if you want to install all Oracle Service Bus products on your system.
	The equivalent using the GUI would be to run the installer and select **Typical** on the Installation Type Screen. All Oracle Service Bus products will be installed.
	See Section 4.2.1.2, "Contents of the typical_installtype.rsp Response File" to view the contents of this file.

In addition to these pre-existing response files, you can create your own response file by running the deinstaller GUI, then clicking **Save** on the Installation Summary Screen 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.

4.2.1.1 Contents of the custom_installtype.rsp Response File

This section shows the contents of the `Disk1/stage/Response/custom_ installtype.rsp` response file on a UNIX operating system:

```
[ENGINE]

#DO NOT CHANGE THIS.
Response File Version=1.0.0.0.0

[GENERIC]

#Set this to true if typical installation must be done. If this is set to true
then wariable "CUSTOM TYPE" must be set to false as the variables are mutually
exclusive
TYPICAL TYPE=false

#Set this to true if custom installation must be done, all other required
variables need to be provided. If this is set to true then variable "TYPICAL TYPE"
must be set to false as the variables are mutually exclusive.
CUSTOM TYPE=true

#Set this to true if component Oracle Service Bus Examples must be installed. This
input will be needed only in the case of custom installation
Oracle Service Bus Examples=true

#Set this to true if component Oracle Service Bus IDE must be installed. This
input will be needed only in the case of custom installation
Oracle Service Bus IDE=true

#Provide the Oracle Home location. The location has to be the immediate child
under the specified Middleware Home location. The Oracle Home directory name may
only contain alphanumeric , hyphen (-) , dot (.) and underscore (_) characters,
and it must begin with an alphanumeric character. The total length has to be less
```

```
than or equal to 128 characters. The location has to be an empty directory or a
valid OSB Oracle Home.
ORACLE_HOME=

#Provide existing Middleware Home location.
MIDDLEWARE_HOME=

#Give the complete path to a valid WebLogic Server Home for the corresponding
Middleware Home entered.
WL_HOME=

#Give the complete path to a valid OEPE Home for the corresponding Middleware Home
entered. This input will be needed in both typical and custom installations. But
in case of custom installation, Oracle Service Bus IDE must be set to true.
OEPE_HOME=


[SYSTEM]


[APPLICATIONS]


[RELATIONSHIPS]
```

4.2.1.2 Contents of the typical_installtype.rsp Response File

This section shows the contents of the `Disk1/stage/Response/typical_installtype.rsp` response file on a UNIX operating system:

```
[ENGINE]

#DO NOT CHANGE THIS.
Response File Version=1.0.0.0.0

[GENERIC]

#Set this to true if typical installation must be done. If this is set to true
then wariable "CUSTOM TYPE" must be set to false as the variables are mutually
exclusive
TYPICAL TYPE=true

#Set this to true if custom installation must be done, all other required
variables need to be provided. If this is set to true then variable "TYPICAL TYPE"
must be set to false as the variables are mutually exclusive.
CUSTOM TYPE=false

#Provide the Oracle Home location. The location has to be the immediate child
under the specified Middleware Home location. The Oracle Home directory name may
only contain alphanumeric , hyphen (-) , dot (.) and underscore (_) characters,
and it must begin with an alphanumeric character. The total length has to be less
than or equal to 128 characters. The location has to be an empty directory or a
valid OSB Oracle Home.
ORACLE_HOME=

#Provide existing Middleware Home location.
MIDDLEWARE_HOME=

#Give the complete path to a valid WebLogic Server Home for the corresponding
Middleware Home entered.
WL_HOME=
```

```
#Give the complete path to a valid OEPE Home for the corresponding Middleware Home
entered. This input will be needed in both typical and custom installations. But
in case of custom installation, Oracle Service Bus IDE must be set to true.
OEPE_HOME=


[SYSTEM]


[APPLICATIONS]


[RELATIONSHIPS]
```

4.2.2 Deinstallation Response Files

A sample deinstallation response file called `deinstall_oh.rsp` is provided in the `Disk1/stage/Response` (on UNIX operating systems) or `Disk1\stage\Response` (on Windows operating systems) directory. This template response file can be used to deinstall your Oracle Service Bus Oracle home.

The contents of the `deinstall_oh.rsp` file are shown below:

```
[ENGINE]

#DO NOT CHANGE THIS.
Response File Version=1.0.0.0.0

[GENERIC]

#Identifies if the Instance deinstallation is valid or not
DEINSTALL_IN_ASINSTANCE_MODE=false


[SYSTEM]


[APPLICATIONS]


[RELATIONSHIPS]
```

A

Deinstalling and Reinstalling Oracle Service Bus

This appendix provides information about deinstalling and reinstalling Oracle Service Bus on your system.

Always use the instructions provided in this appendix for removing the software. If you try to remove the software manually, you may experience problems when you try to reinstall the software. Following the procedures in this appendix ensures that the software is properly removed.

The following topics are covered:

- Deinstallation Instructions
- Reinstalling Oracle Service Bus

A.1 Deinstallation Instructions

The deinstaller attempts to remove the Oracle home directory from which it was started. Before you choose to remove your Oracle Service Bus Oracle home directory, make sure that it is not in use by an existing domain and that you stop all running processes that use this Oracle home.

Deinstalling Oracle Service Bus will not remove any WebLogic domains that you have created—it only removes the software in the Oracle Service Bus Oracle home directory.

Properly removing Oracle Service Bus from your system involves the following tasks:

- Stopping Oracle Fusion Middleware
- Removing Database Schemas
- Removing Oracle Service Bus
- Removing Oracle WebLogic Server
- Removing the Program Groups (Windows Only)
- Rebooting Your System (Windows Only)

A.1.1 Stopping Oracle Fusion Middleware

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

For instructions, refer to "Starting and Stopping Oracle Fusion Middleware" in *Oracle Fusion Middleware Administrator's Guide*.

To stop Node Manager, see the instructions in "Stopping Node Manager" in *Oracle Fusion Middleware Node Manager Administrator's Guide for Oracle WebLogic Server*.

A.1.2 Removing Database Schemas

If you are using the Reporting feature or Oracle Web Services Manager policies and you have installed database schemas, run Repository Creation Utility (RCU) to drop the schemas from your database.

For instructions, refer to "Dropping Schemas" in *Oracle Fusion Middleware Repository Creation Utility User's Guide*.

A.1.3 Removing Oracle Service Bus

Deinstalling Oracle Service Bus involves removing the Oracle Service Bus Oracle home and also the Oracle Common home directories.

The deinstaller will attempt to remove the Oracle home from which it was started. This procedure will not remove any WebLogic domains that you have created - it only removes the software in the Oracle home.

Before you choose to remove your Oracle Service Bus Oracle home, make sure that it is not in use by an existing domain, and also make sure you stop all running processes that use this Oracle home. After you remove the software, you will no longer be able to use your WebLogic domain.

A.1.3.1 Removing the Oracle Service Bus Oracle Home

To start the deinstaller, navigate to the *OSB_ORACLE_HOME*/oui/bin (on UNIX operating systems) or *OSB_ORACLE_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 Service Bus 11g - Home1 > Uninstall**.

Follow the instructions in Table A–1 to deinstall your software.

If you need additional help with any of the deinstallation screens, refer to Appendix C, "Oracle Service Bus Deinstallation Screens" or click **Help** to access the online help.

Table A–1   Deinstallation Flow

No.	Screen	Description and Action Required
1	Welcome Screen	Click **Next** to continue.

Table A–1 (Cont.) Deinstallation Flow

No.	Screen	Description and Action Required
2	Deinstall Oracle Home Screen	Verify the Oracle home you are about to deinstall.
		Click **Deinstall** to continue.
		On the Warning screen, select whether or not you want the deinstaller to remove the Oracle home directory in addition to removing the software.
		Click **Yes** to have the deinstaller remove the software and Oracle home, **No** to remove only the software, or **Cancel** to return to the previous screen.
		If you select **No**, go to Section A.1.3.3, "Manually Removing Your Oracle Home Directories" for instructions on how to manually remove your Oracle home directory.
3	Deinstallation Progress Screen	This screen shows the progress and status of the deinstallation.
4	Deinstallation Completed Screen	Click **Finish** to dismiss the screen.

A.1.3.2 Removing the Oracle Common Home

This section describes how to remove the 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.

On UNIX operating systems:

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

On Windows operating systems:

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

> **Note:** Specify the absolute path to your *JRE_LOCATION*; relative paths are not supported.

After the deinstaller is started, follow the instructions in Table A–1 to remove the Oracle Common home directory.

A.1.3.3 Manually Removing Your Oracle Home Directories

If you selected **No** on the warning screen during deinstallation, you must manually remove your Oracle home directories and all sub-directories. For example, if your Oracle Service Bus Oracle home directory was /home/Oracle/Middleware/Oracle_OSB1 on a UNIX operating system:

```
> cd /home/Oracle/Middleware
> rm -rf Oracle_OSB1
```

On a Windows operating system, if your Oracle Service Bus Oracle home directory was C:\Oracle\Middleware\Oracle_OSB1, use a file manager window and

navigate to the `C:\Oracle\Middleware` directory, then right-click on the `Oracle_OSB1` folder and select **Delete**.

The same procedure can be used to manually remove the Oracle Common home (`oracle_common`) directory.

A.1.4 Removing Oracle WebLogic Server

Instructions for removing Oracle WebLogic Server are provided in "Uninstalling the Software" in *Oracle Fusion Middleware Installation Guide for Oracle WebLogic Server*.

After the software is removed, you must manually remove the Middleware home directory and all sub-directories. For example, if your 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 on the `Middleware` folder and select **Delete**.

A.1.5 Removing the Program Groups (Windows Only)

On Windows 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 11.1.1.4.0
- Oracle Service Bus 11g - Home1
- Oracle WebLogic

A.1.6 Rebooting Your System (Windows Only)

On Windows operating systems, you should reboot your computer after you have finished removing all your programs to ensure proper cleanup.

A.2 Reinstalling Oracle Service Bus

The installer does not allow reinstallation of Oracle Service Bus in a directory that already contains an Oracle product. To reinstall Oracle Service Bus in the same directory as before, you must follow the instructions in this chapter to deinstall the software, then follow the instructions in Chapter 2, "Installing Oracle Service Bus 11g" to reinstall the software.

B

Oracle Service Bus Software Installation Screens

This appendix contains screenshots and descriptions for screens in the Oracle Fusion Middleware 11*g* Service Bus Installer, which is used to install the Oracle Service Bus 11*g* software.

It contains the following topics:

- Welcome Screen
- Install Software Updates Screen
- Installation Location Screen
- Installation Type Screen
- Components to Install Screen
- Prerequisite Checks Screen
- Product Home Location Screen
- Installation Summary Screen
- Installation Progress Screen
- Installation Completed Screen

B.1 Welcome Screen

Welcome screen. This screen is described in the surrounding text.

****

The Welcome screen is displayed each time you start the installer for Oracle Service Bus.

Click **Next** to continue.

B.2 Install Software Updates Screen

Install Software Updates screen. This screen is described in the surrounding text.

****

Select the method you want to use for installing software updates.

- Skip Software Updates

  You can choose to skip this option for now.

- Search My Oracle Support for Updates.

  If you have a My Oracle Support account, you can specify your account name and password to have the installer automatically download applicable software updates from My Oracle Support. After entering your credentials, you can test the connection by clicking **Test Connection**. Click **Proxy Settings** if you need to configure a proxy server in order to have the installer access My Oracle Support.

  Configure your proxy server with the following screen:

This illustration shows the Proxy Settings screen. It is described in the surrounding text.

****

- Search Local Directory for Updates.

  If you have software updates available locally, you can specify the location by using this option. When you select **Search Local Directory for Updates** an additional "Local Directory" field will appear, as shown below:
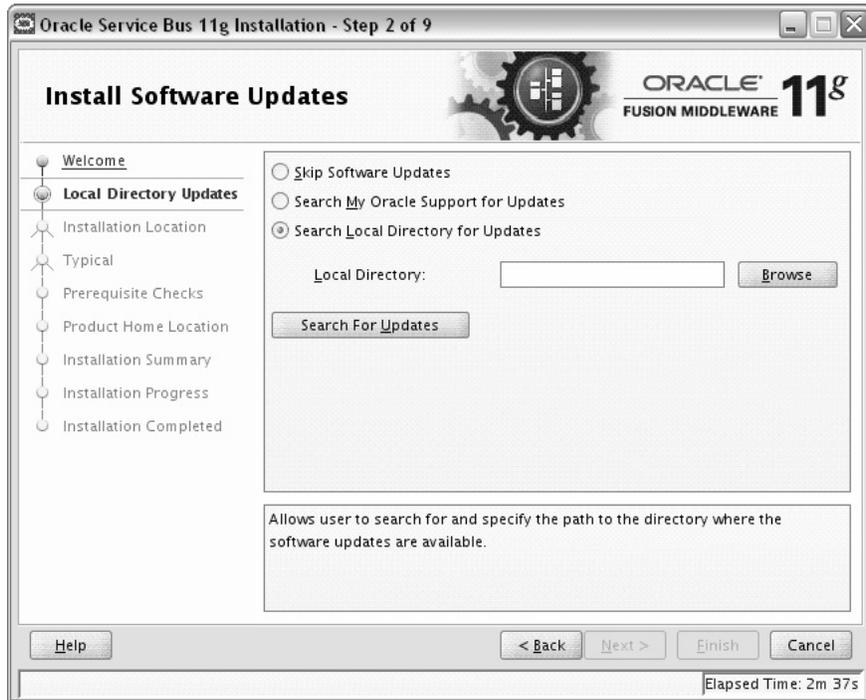
This illustration shows the Install Software Updates screen with the **Search Local Directory for Updates** option selected. It is described in the surrounding text.

****

B.3 Installation Location Screen

Installation Location screen. This screen is described in the surrounding text.

****

Enter the following information on the Specify Installation Location screen:

- **Oracle Middleware Home**

  The absolute path to the directory where Oracle WebLogic Server was installed.

- **Oracle Home Directory**

  The directory name for your Oracle home:

  - You can specify a directory that already exists; this must be 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 this directory here).

  - You can specify a pre-existing Oracle home directory (for example, you are reinstalling the software into an existing Oracle home that was created from a previous installation that was incomplete).

  - You can specify the name of a new directory that will be created for you inside the Middleware home.

  Your Oracle home directory where your products will be installed. All software binaries will reside in this directory, and no runtime process can write to this directory.

  Note: This installation directory is referred to as *OSB_ORACLE_HOME* throughout the remainder of this document.

Refer to "Oracle Fusion Middleware Directory Structure and Concepts" in *Oracle Fusion Middleware Installation Planning Guide* for more information about these directories.

If you are performing an installation on a Windows operating system, be sure that your directory paths are valid and do not contain double backslashes (\\).

After specifying the installation directories, click **Next**.

B.4 Installation Type Screen

Installation Type screen. This screen is described in the surrounding text.

****

The Select Installation Type screen offers the following options:

- **Typical**: installs Oracle Service Bus and Oracle Service Bus binaries in the Oracle home.

- **Custom:** allows you to choose which Oracle Service Bus component you want to install on your system. The components to select from include the Oracle Service Bus server, Oracle Service Bus IDE, and Oracle Service Bus examples.

Click **Next** to continue after making your selection.

B.5 Components to Install Screen

Components to Install Screen that enables you to select Oracle Service Bus components to install.

****

The Select Components screen is displayed only when you choose the **Custom** type of installation on the Select Installation Type screen.

Note that the Oracle Service Bus Server is a required component. You can select either **Oracle Service Bus IDE** or **Oracle Service Bus Examples** on this screen.

> **Note:**   If you are installing on an HP-UX or AIX operating system, you must make sure that **Oracle Service Bus IDE** is not selected.

After selecting the components to install, click **Next**.

B.6 Prerequisite Checks Screen

Prerequisites Checks screen. This screen is described in the surrounding text.

****

The installation program ensures that you have a certified version, the correct software packages, sufficient space and memory to perform the operations that you have selected.

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 errors or warnings and continue with the installation, click **Continue**.

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

B.7 Product Home Location Screen
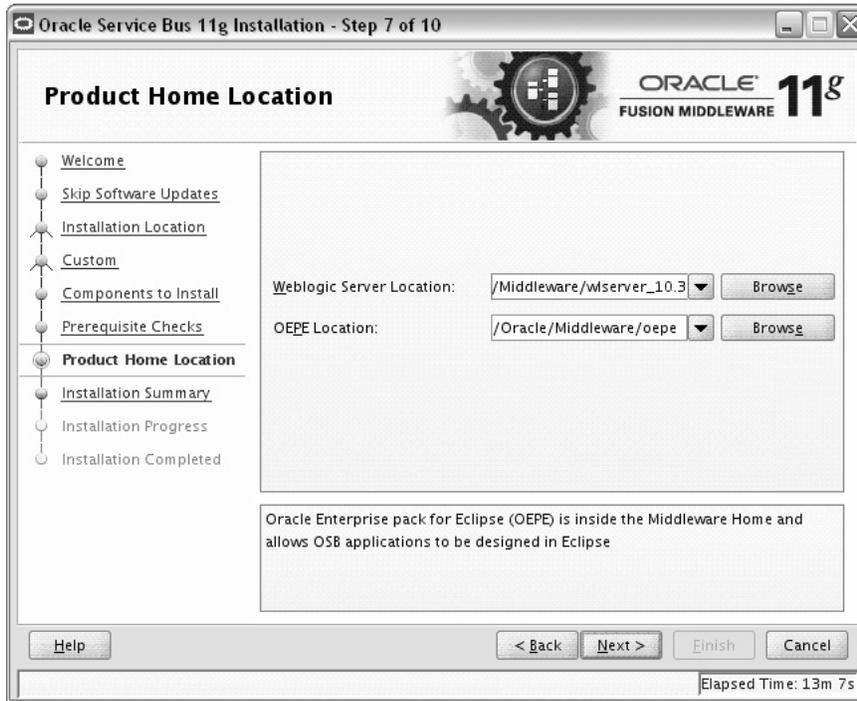
Product Home Location screen. This screen is described in the surrounding text.

****

Enter the following information:

- **Oracle WebLogic Server Location**

    The directory name for your WebLogic Server home. This directory will automatically be created inside the Middleware home during the Oracle WebLogic Server installation. The default name for this directory is `wlserver_10.3`.

- **OEPE (Oracle Enterprise Pack for Eclipse) Location**

    The OEPE directory name. This directory will automatically be created inside the Middleware home. The default location is `oepe_11gR1PS3` inside the Middleware home.

    Note: This option only appears if you selected **Oracle Service Bus IDE** on the Components to Install Screen.

If you are performing an installation on a Windows operating system, be sure that your directory paths are valid and do not contain double backslashes (\\).

After specifying the installation directories, click **Next**.

B.8 Installation Summary Screen
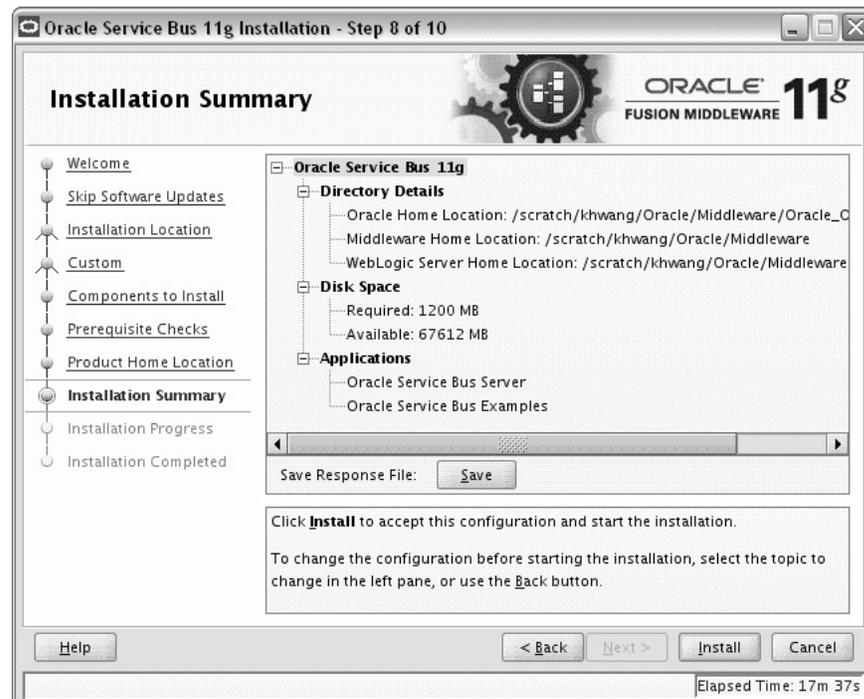
Installation Summary screen. This screen is described in the surrounding text.

****

The Installation Summary screen displays the following details:

■   Directory Details

■   Disk Space

■   Applications

Click **Save** to save the installation response file, which contains your responses to the Installer prompts and fields. You can use this response file to perform silent installations.

> **Note:**   The installation response file is not saved, by default—you must click **Save** to retain it.

Refer to "Oracle Fusion Middleware Directory Structure and Concepts" in *Oracle Fusion Middleware Installation Planning Guide* for more information about these directories.

Review the contents of this screen, and click **Install** to start installing the Oracle Service Bus 11*g* software.

B.9 Installation Progress Screen
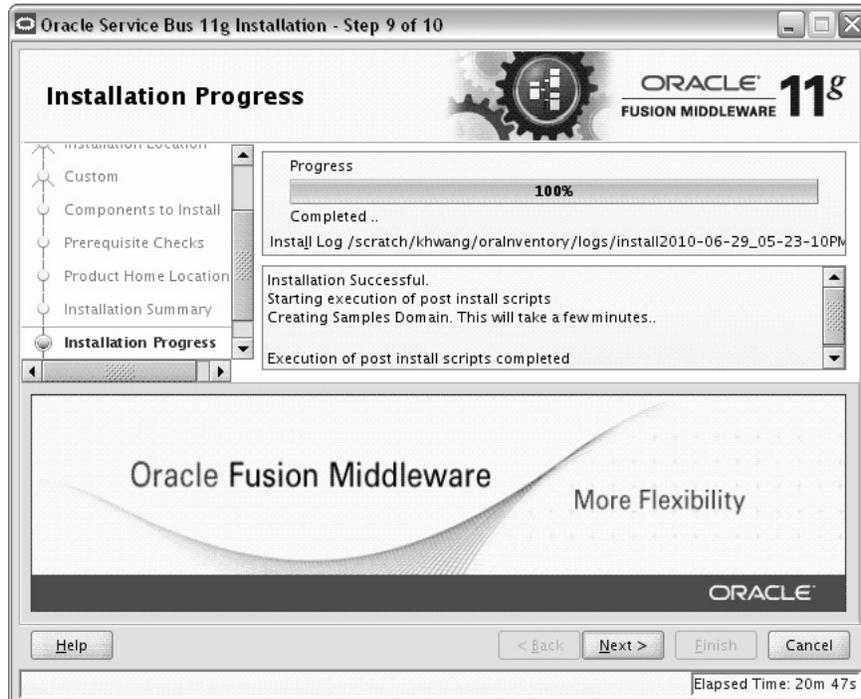
Installation Progress screen. This screen is described in the surrounding text.

****

This screen shows the progress of the installation of Oracle Service Bus products and components. When the installation progress is shown as 100%, click **Next**.

B.10 Installation Completed Screen

Installation Completed screen. This screen is described in the surrounding text.

****

The Installation Completed screen displays the result of the Oracle Service Bus installation. Click **Finish** to exit.

C

Oracle Service Bus Deinstallation Screens

This appendix contains screenshots and descriptions for the Oracle Service Bus 11*g* software deinstallation screens. The deinstaller wizard enables you to remove the Oracle Service Bus 11*g* software from your machine.

It contains the following sections:

- Welcome Screen
- Deinstall Oracle Home Screen
- Deinstallation Progress Screen
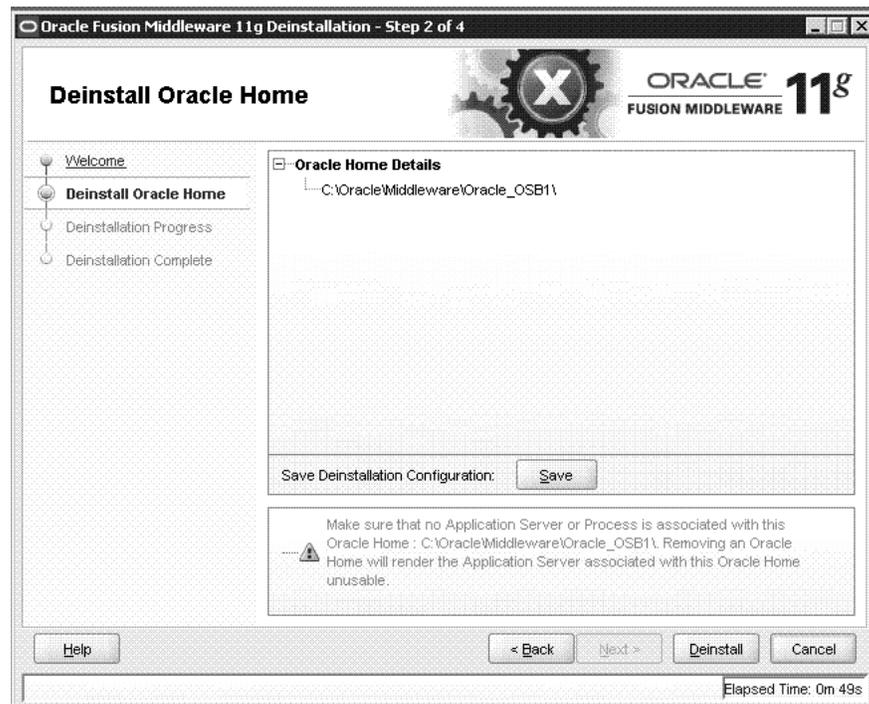- Deinstallation Completed Screen

C.1 Welcome Screen
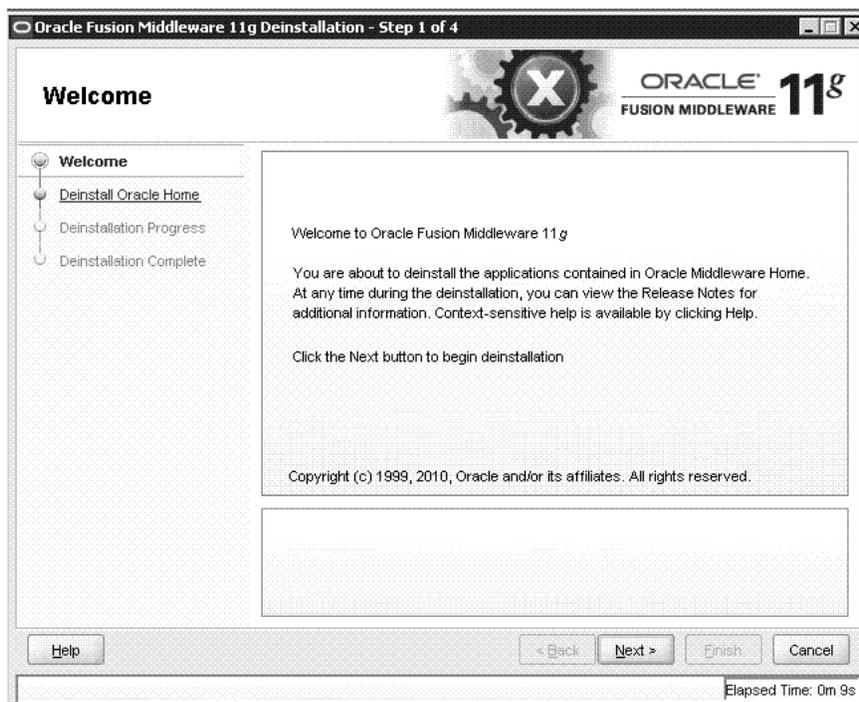
Welcome screen. This screen is described in the surrounding text.

****

The Welcome screen is displayed each time you start the deinstallation wizard for Oracle Service Bus.

Click **Next** to continue.

C.2 Deinstall Oracle Home Screen

Deinstall Oracle Home screen. This screen is described in the surrounding text.

****

This screen shows the Oracle home directory that is about to be deinstalled. It is the Oracle home directory in which the deinstaller was started.

Verify that this is the correct directory, and also verify that there are no processes associated with this Oracle home.

Click **Deinstall** to start the deinstallation process.

C.3 Deinstallation Progress Screen

Deinstallation Progress screen. This screen is described in the surrounding text.

****

This screen shows the progress of deinstallation. When the progress is shown as 100%, click **Next**.

C.4 Deinstallation Completed Screen

Deinstallation Completed screen. This screen is described in the surrounding text.

****

The Deistallation Completed screen displays the result of the Oracle Service Bus deinstallation.

After deinstallation, you can reinstall Oracle Service Bus in same Oracle home, if required.

D

Troubleshooting the Installation

This appendix describes solutions to common problems that you might encounter when installing Oracle Service Bus. It contains the following topics:

- General Troubleshooting Tips
- Installation and Configuration Log Files
- Need More Help?

D.1 General Troubleshooting Tips

If you encounter an error during installation:

- Read the *Oracle Fusion Middleware Release Notes for Linux x86* or *Oracle Fusion Middleware Release Notes for Microsoft Windows (32-Bit)* (depending on your platform) for the latest updates. The most current version of the release notes is available on the Oracle Fusion Middleware 11 g Release 1 (11.1.1) Documentation page on Oracle Technology Network:

  ```
  http://www.oracle.com/technetwork/middleware/docs/middleware-093940
  .html
  ```

  Click the **View Library** link for the documentation library corresponding to your release. The Release Notes are available in the library.

- Verify your system and configuration is certified. Refer to the *System Requirements and Supported Platforms for Oracle Fusion Middleware 11gR1* document on the Oracle Fusion Middleware Supported System Configurations page:

  ```
  http://www.oracle.com/technology/software/products/ias/files/fusion
  _certification.html
  ```

- Verify your system meets the minimum system requirements. Refer to the System Requirements and Specifications document:

  ```
  http://www.oracle.com/technology/software/products/ias/files/fusion
  _requirements.htm
  ```

- If you entered incorrect information on one of the installation screens, return to that screen by clicking **Back** until you see the screen.

- If an error occurred while the Installer is copying or linking files:

  1. Note the error and review the installation log files.

  2. Remove the failed installation.

  3. Correct the issue that caused the error.

    4. Restart the installation.

D.2 Installation and Configuration Log Files

This section contains information about the log files that are created when running the Oracle Service Bus installer and the Oracle Fusion Middleware Configuration Wizard. Log files contain information that can help you troubleshoot problems with your installation or configuration.

D.2.1 Installation Log Files

The installer writes logs files to the `Oracle_Inventory_Location/log` (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 `OSB_ORACLE_HOME/oraInst.loc` file. On Windows systems, the default location for the inventory directory is `C:\Program Files\Oracle\Inventory\logs`.

The following install log files are written to the log directory:

- `installdate-time-stamp.log`

  This is the main log file.

- `installdate-time-stamp.out`

  This log file contains the output and error streams during the installation.

- `installActionsdate-time-stamp.log`

  This file is used by the installer GUI to keep track of internal information.

- `installProfiledate-time-stamp.log`

  This log file contains the overall statistics like time taken to complete the installation, as well as configuration, memory and CPU details.

- `oraInstalldate-time-stamp.log`

  This log file contains the output stream of the copy session.

If you start the installer with the `-printtime` parameter, the `timeTakendate-time-stamp.log` and `timedate-time-stamp.log` files are created in the same directory:

- `timeTakendate-time-stamp.log`

  This file contains information for the amount of time taken to move between screens (applicable for GUI installations only).

- `timedate-time-stamp.log`

  This file contains time information for the copy session.

If you start the installer with the `-printmemory` parameter, the `memorydate-time-stamp.log` file is created. This file contains memory usage information for the copy session.

D.2.2 Configuration Log Files

To create a log file of your configuration session, start the Configuration Wizard with the `-log` option, as shown below:

On UNIX operating systems:

```
% ./config.sh -log=log_filename
```

On Windows operating systems:

```
G:\ config.cmd -log=log_filename
```

If you specify an absolute path with your *log_filename* then your log file will be created there. If you only specify a file name with no path, then the log files are created in the *OSB_ORACLE_HOME*/common/bin (on UNIX operating systems) or *OSB_ ORACLE_HOME*\common\bin (on Windows operating systems) directory.

D.3 Need More Help?

If you cannot solve a problem using the information in this appendix, look for additional information in My Oracle Support (formerly MetaLink) at http://support.oracle.com.

If you cannot find a solution to your problem, open a service request.

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