

Oracle® Endeca Information Discovery Integrator

Integrator Installation Guide

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Preface

Oracle® Endeca Information Discovery Integrator provides a suite of products to load data from disparate source systems and store it for use in an Endeca Server data domain. The Integrator products include:

- Integrator ETL - Integrator ETL is a high-performance data integration platform that lets you extract source records from a variety of sources and sends that data to the Data Ingest Web Service, which in turn loads the records into the Oracle Endeca Server.
- Integrator Acquisition System - The Integrator Acquisition System, or IAS, is a set of components that crawl source data stored in a variety of formats including: file systems, delimited files, JDBC databases, and custom data sources. IAS transforms the data, if necessary, and outputs the data to an XML file or a Record Store instance that can be accessed by Integrator ETL for use in the Endeca Server.
- IKM SQL to Endeca Server - provides integration and loading modules that enable writing source data to an Endeca Server target within Oracle Data Integrator.

About this guide

This guide contains installation instructions for setting up Oracle Endeca Information Discovery Integrator on Windows and Linux.

Who should use this guide

This guide is intended for system administrators installing Oracle Endeca Information Discovery Integrator on Windows or Linux.

Conventions used in this guide

The following conventions are used in this document.

Typographic conventions

The following table describes the typographic conventions used in this document.

Table 0.1: Typographic conventions

Typeface	Meaning
User Interface Elements	This formatting is used for graphical user interface elements such as pages, dialog boxes, buttons, and fields.
Code Sample	This formatting is used for sample code phrases within a paragraph.
<Variable Name>	This formatting is used for variable values, such as <install path>.
File Path	This formatting is used for file names and paths.

Symbol conventions

The following table describes symbol conventions used in this document.

Table 0.2: Symbol conventions

Symbol	Description	Example	Meaning
>	The right angle bracket, or greater-than sign, indicates menu item selections in a graphic user interface.	File > New > Project	From the File menu, choose New, then from the New submenu, choose Project.

Contacting Oracle Customer Support

Oracle Customer Support provides registered users with important information regarding Oracle software, implementation questions, product and solution help, as well as overall news and updates from Oracle.

You can contact Oracle Customer Support through Oracle's Support portal, My Oracle Support at <https://support.oracle.com>.



Chapter 1

Oracle Endeca Information Discovery Integrator Installation Overview

Here is a brief overview of Oracle Endeca Information Discovery Integrator and the installation process.

[About Integrator](#)

[Integrator system requirements](#)

About Integrator

Oracle Endeca Information Discovery Integrator is a high-performance data integration platform that lets you extract source records from a variety of source types (from flat files to databases).

Integrator then loads that data into an Endeca data domain via the Data Ingest Web Service or the Bulk Load Interface.

From a high level, the Integrator suite consists of:

- **Integrator.** With its powerful graphical interface, you can use the Integrator client to build graphs that can load source data into an Endeca data domain, as well as the schema for your attributes and the index configuration documents for various Endeca features.
- **Information Discovery connectors.** Developed by Endeca, these connectors are Integrator components that are easily configured to perform various data integration operations on Endeca data domains.
- **Integrator Server.** The Server is used to run graphs in an enterprise-wide environment. In this environment, different users and user groups can access and run the graphs.
- **Integrator Acquisition System.** Optional component. The Integrator Acquisition System, or IAS, is a set of components that crawl source data stored in a variety of formats including: file systems, Content Management Systems, Web servers, and custom data sources. IAS transforms the data, if necessary, and outputs the data to an XML file or a Record Store that can be accessed by Integrator for use in the Endeca Server. The installation procedure for IAS is documented in the *Integrator Acquisition System Installation Guide*.

Integrator system requirements

The Integrator components have the following installation requirements.

The 3.0.x version of the Integrator is compatible only with the 7.5.x version of the Oracle Endeca Server.

Software requirements

- The only prerequisite for installing Integrator Designer on Linux is an X Window System.

- Integrator Designer requires Java version 7 (also called 1.7) JDK, which is included in the Integrator Designer installer.
- Integrator Server requires Sun Java version 6 JDK.
- Integrator Server can be installed on WebLogic Server Version 10.3.6 or on a standalone Apache Tomcat, version 6.0.x. You should not install Integrator Server in a container that hosts another application, such as Studio or the Provisioning Service.

Hardware requirements

Supported operating systems

Hardware requirements

Integrator has the following hardware requirements.



Note: In this guide, the term "x64" refers to any processor compatible with the AMD64/EM64T architecture. You might need to upgrade your hardware, depending on the data you are processing. All run-time code must fit entirely in RAM. Likewise, hard disk capacity must be sufficient based on the size of your data set. Please contact your Oracle representative if you need more information on sizing your hardware.

Windows and Linux on x64

Minimum hardware requirements:

- x64 processor, minimum 1.8 GHz
- At least 3 GB of RAM, depending on the size of the application data set
- 80 GB hard drive, depending on the size of the application data set

Recommended hardware requirements:

- x64 3.0+ GHz processors; Intel Xeon (including Nehalem) or AMD Opteron processors are recommended
- 8 GB of RAM or more, depending on the size of the application data set
- High performance network-attached storage (for example, attached via a dedicated iSCSI or fibre channel network), or high performance locally-attached RAID storage (for example, a RAID 6 or RAID 0+1 array with battery-backed write caching, operating on 72GB or 146 GB spindles at 10k or 15k RPM spindle speed)
- Gigabit Ethernet

Supported operating systems

Integrator supports the following 64-bit operating systems running on servers with x64 capabilities:

Operating System	Description
Oracle Linux 5	Only the Red Hat Compatible Kernel is supported.

Operating System	Description
Linux RHEL 5	<ul style="list-style-type: none">• Red Hat Enterprise Linux Server (version 5 for x64) running on x64 processors.• Red Hat Enterprise Linux Advanced Platform (version 5 for x64) running on x64 processors. <p>For best performance on Red Hat Linux version 5 (Server and Advanced), Endeca recommends the latest version of RHEL 5.</p>
Windows 2008	Windows Server 2008 R2 Enterprise running on x64 processors.



Note: The *Oracle Endeca Information Discovery Integrator Designer Guide* lists other supported operating systems. However, that list is superseded by the list above.

Notes

Windows 7 is not supported for production deployment, but operates sufficiently to enable training and small-scale development work.

Windows XP is not supported.



Chapter 2

Downloading Integrator

Integrator is downloaded from the Oracle Software Delivery Cloud.

To download Integrator:

1. Log in to <https://edelivery.oracle.com>.
2. Accept the terms and restrictions.
3. On the **Media Pack Search** page:
 - (a) From the **Select a Product Pack** drop-down list, select **Oracle Endeca**.
 - (b) From the **Platform** drop-down list, select the platform you are installing on.
 - (c) Click **Go**.

The list of media packs for the selected product and platform is displayed.

For the Windows platform, the media pack is **Oracle Endeca Information Discovery Integrator (3.0) Media Pack v1 for Microsoft Windows x64 (64-bit)**.

For the Linux platform, the media pack is **Oracle Endeca Information Discovery Integrator (3.0) Media Pack v1 for Linux x86-64**.

4. In the media pack list, click the name of the media pack.
The **Download** page displays, listing the downloads for the selected media pack.
5. For Windows, download **Oracle Endeca Information Discovery Integrator (3.0) Media Pack v1 for Microsoft Windows x64 (64-bit)**.

The downloaded file, `EIDInt30_Win.zip`, contains:

File name	Description
<code>EID_3.0_Integrator_designer.exe</code>	Installer for Integrator Designer 64-bit client
<code>EID_3.0_Integrator_server_weblogic.zip</code>	Installer for Integrator Server on WebLogic Server
<code>EID_3.0_Integrator_server_tomcat.zip</code>	Installer for Integrator Server on Tomcat

For Linux, download **Oracle Endeca Information Discovery Integrator (3.0) Media Pack v1 for Linux x86-64**.

The downloaded file, EIDInt30_Linux.zip, contains:

File name	Description
EID_3.0_Integrator_designer.sh	Installer for Integrator Designer 64-bit client
EID_3.0_Integrator_server_weblogic.zip	Installer for Integrator Server on WebLogic Server
EID_3.0_Integrator_server_tomcat.zip	Installer for Integrator Server on Tomcat

You can also download the **Oracle Endeca Information Discovery Integrator (3.0) Documentation**. This .zip file contains the Integrator release notes and documentation.



This section describes how to install Integrator on Linux and Windows platforms.

[Integrator installation packages](#)

[Installing Integrator on Windows](#)

[Installing Integrator on Linux](#)

Integrator installation packages

Installation packages are provided for Integrator Designer and Integrator Server on both Windows and Linux.

Integrator Designer Installers

The Linux Integrator Designer installer is a shell script file named `EID_3.0_Integrator_designer.sh`.

The Windows Integrator Designer installer is an executable file named `EID_3.0_Integrator_designer.exe`.

Each installation contains a complete version of the Integrator Designer, including the Information Discovery components.

Integrator Server installation package

The Integrator Server package for WebLogic Server for both Windows and Linux is named `EID_3.0_Integrator_server_weblogic.zip`.

The Integrator Server package for Tomcat for both Windows and Linux is named `EID_3.0_Integrator_server_tomcat.zip`.

In all cases, the `.zip` file contains the following components:

- The `clover.war` file contains the server version of the Integrator, including the Information Discovery connectors.
- The `clover-license.war` file contains the license for the Integrator Server.

Installing Integrator on Windows

This topic describes how to install Integrator on a Windows client machine.

Integrator is installed as a machine-wide installation on Windows. This type of installation requires administrator permissions and is used because it is intended for a production environment.

This procedure assumes that you have downloaded the Integrator installer for Windows.

To install Integrator on a Windows client:

1. Double-click the installer file to start the wizard.
The wizard verifies the contents of the installation package.
2. Click **Next** to begin the installation process.
3. In the **Copyright and Legal** screen, click **Next**.
4. In the **Destination Folder** screen, either accept the default installation folder or select another installation location, then click **Next**.
You cannot install Integrator into a folder that contains content.
5. In the **Completing the Setup Wizard** screen, click **Next**.
The wizard begins to install the Integrator files.
6. When the wizard confirms that you have successfully completed the installation, click **Finish**.

After installation, double-click the Integrator shortcut icon to start the program.

Installing Integrator on Linux

This topic describes how to install Integrator on a Linux client machine.

This procedure assumes that you have downloaded the Integrator installer for Linux.

To install Integrator on a Linux client:

1. Determine where you will install the Integrator client. Verify that the target directory on which you plan to install has write permissions (is not read-only).
For example, in this procedure, we assume that the target directory is `/localdisk` and that you have write permissions for it. If you do not set these permissions, the install script will not run.
2. Run the Integrator installation script with a command similar to this example:

```
./EID_3.0_Integrator_designer.sh --target /localdisk
```
3. The copyright notice displays first. Scroll to the end of the copyright notice. When you reach the end of the notice, the installation begins.
The installer displays a message that it is about to extract files in the specified directory. The installer also checks that the directory has enough available disk space, and that it can write to this directory. If these conditions are met, the installer proceeds with the installation and completes it. If they are not met, the installer issues an error and discontinues the installation.

The installation is finished when you see this confirmation message:

```
Installation complete!
```

As a result of the installation, Integrator is installed in:

```
Oracle/Endeca/Discovery/3.0.0/Integrator
```

To start Integrator, run the `integrator` executable file in the `3.0.0/Integrator` directory.



Chapter 4

Installing Integrator Server

You can install Integrator Server on Tomcat and Oracle WebLogic Server Web application servers.

For details about the installation package, see [Integrator Installation packages](#).

[Installing Integrator Server on Tomcat](#)

[Installing Integrator Server on WebLogic Server](#)

Installing Integrator Server on Tomcat

Integrator Server is supported on Apache Tomcat version 6.0.x.

Integrator Server must be installed on a standalone Apache Tomcat. Do not install Integrator Server on a Tomcat server that is being used to host other applications. For example, do not install Integrator Server on the Tomcat that is hosting Studio.

Sun Java SDK Version 1.6.x is required.

Set the following environment variables:

- JAVA_HOME
- JRE_HOME



Note: If JRE_HOME is not set, the value defaults to the value of the JAVA_HOME environment variable.

Download the Oracle Endeca Integrator Server for Tomcat package from the [Oracle Software Delivery Cloud](#).

To install Integrator Server:

1. If you have not already installed Apache Tomcat 6.0.x:
 - (a) Download the binary distribution from: <http://tomcat.apache.org/download-60.cgi>.
 - (b) Unpack the ZIP file to a directory of your choosing.
 - (c) By default, Tomcat starts up on HTTP connector 8080. If another application on the install machine is already using port 8080 (for example, if you have another instance of Tomcat on the machine), then change the default startup port by modifying the `conf/server.xml` file.
 - (d) Run Tomcat with the `startup.sh` (for Linux) or `startup.bat` (for Windows) program file in the Tomcat `bin` directory.
 - (e) Use a browser to check whether Tomcat is running on URL `http://localhost:8080`, where 8080 is the Tomcat port specified in `conf/server.xml`.
If Tomcat is running properly and you specified the correct port, the browser displays the Tomcat homepage.

For more detailed installation instructions, go to: <http://tomcat.apache.org/tomcat-6.0-doc/setup.html>

For instructions on installing Tomcat as a Windows service, go to: <http://tomcat.apache.org/tomcat-6.0-doc/windows-service-howto.html>

2. Shut down Tomcat.
3. Copy the `clover-license.war` and `clover.war` files to the Tomcat `webapps` directory.
4. Create a `setenv` file and configure the Tomcat memory settings appropriate for your needs.

For details on creating this file, see [Creating a setenv file on page 15](#).

5. Restart Tomcat.
6. To verify that the Integrator Server license was successfully deployed, start a browser and enter the URL `http://localhost:8080/clover-license`, where 8080 is the Tomcat port specified in `conf/server.xml`.

The browser should show this light-weight page:

```
This webapp runs on context /clover-license, which is correct.
```

7. Start a browser, and then enter the Integrator Server home page URL:
`http://localhost:8080/clover`.

The browser should return the Integrator Server home page.

8. To log in to the Integrator Server:
 - (a) Click **Log in to Server Administration**.
 - (b) At the Access Server GUI page, enter `clover` as both the **Username** and **Password**, and then click the **Login** button.

When the Integrator Server is running, you can access the *Reference Manual* from either the Integrator Server home page or via this URL:

```
http://localhost:8080/clover/docs/index.html
```

where 8080 is the Tomcat port specified in `conf/server.xml`.

The *Integrator Server Guide* provides comprehensive documentation on the operations available in Integrator Server.

[Tomcat configuration recommendations](#)

Tomcat configuration recommendations

This topic provides some configuration tips for getting started with your Tomcat application server.

Keep in mind that complete documentation on configuring and using the Tomcat server is available at this URL for the server: `http://localhost:8080/docs/`

This topic provides some configuration tips that are specific to the Integrator Server application.

Creating a setenv file

It is recommended that you create a file named `setenv.bat` (Windows) or `setenv.sh` (Linux) and place it in the Tomcat `bin` directory. With this file (which is run by the `catalina.bat` and `catalina.sh` scripts), you can change the following Tomcat environment settings with the `JAVA_OPTS` variable:

- You can set the minimum and maximum memory heap size with the JVM `-Xms` and `-Xmx` parameters. The best limits depend on many conditions, such as transformations that Integrator should execute. For Information Discovery transformations, a maximum of 1 GB is recommended. For example, to set the minimum heap size to 128 MB and the maximum heap size to 1024 MB, use:

```
JAVA_OPTS=" -Xms128m -Xmx1024m"
```

- You should set the maximum limit of the PermGen (Permanent Generation) memory space to a size larger than the default. The default of 64 MB is not enough for enterprise applications. A suitable memory limit depends on various criteria, but 256 MB would make a good choice in most cases. If the PermGen space maximum is too low, `OutOfMemoryError: PermGen space` errors may occur. You can set the PermGen maximum limit with the following JVM parameter:

```
-XX:MaxPermSize=256m
```

- For performance reasons, it is recommended that the application is run in Server mode. Apache Tomcat does not run in Server mode by default. You can set the Server mode by using the JVM `-server` parameter. You can set the JVM parameter in the `JAVA_OPTS` variable in the environment variable in the `setenv` file.

The following is an example of a `setenv.bat` file:

```
set "JAVA_OPTS=%JAVA_OPTS% -Xms128m -Xmx1024m -XX:MaxPermSize=256m -server"
```

About database connections

The default installation (without changes to the configuration) uses the embedded Apache Derby database, and therefore does not need an extra database server. In addition, the installation (as regards to the database) does not need any subsequent configuration.

Integrator Server configures itself during the first startup. Database tables and some necessary records are automatically created on the first startup with an empty database. In the **Sandboxes** tab of the Integrator Server Administration GUI, you can check that there is one default sandbox created with one test graph.

Only one Integrator Server instance can work with the embedded database. If you need more instances, you should configure an external database.

You will have to determine if the embedded Apache Derby database is sufficient for your application when you are ready for production deployment. If the Apache Derby database is not sufficient, you can configure an external database connection such as Microsoft SQL or Oracle. For details on configuring external databases, see the *Integrator Server Guide*.

Installing Integrator Server on WebLogic Server

Oracle Endeca Integrator Server is supported on WebLogic Server 10.3.6.

You must install Integrator Server to its own WebLogic domain. The following process assumes you are installing Integrator Server into a new WebLogic Server for production. For demonstration, evaluation, training,

and development, you can install Integrator Server on the same WebLogic Server as Endeca Server, Studio, and the Provisioning Service.

To install Integrator Server:

1. Download and install the Sun Java 6 JDK.

For details about installing the Sun Java JDK, see [Downloading and installing the Sun JDK on page 16](#).

2. Download and install WebLogic Server.

For details about installing WebLogic Server, see [Downloading and installing WebLogic Server on page 19](#).

3. Create and configure a WebLogic domain.

For details about creating and configuring a WebLogic domain, see [Creating and configuring a WebLogic domain for Integrator Server on page 25](#).

4. Install Integrator Server into the WebLogic domain.

For details, see [Installing Integrator Server into a WebLogic domain on page 32](#).

[Downloading and installing the Sun JDK](#)

[Downloading and installing WebLogic Server](#)

[Creating and configuring a WebLogic domain for Integrator Server](#)

[Installing Integrator Server into a WebLogic domain](#)

Downloading and installing the Sun JDK

Integrator Server requires the Sun Java 6 JDK.

To download and install the Sun JDK:

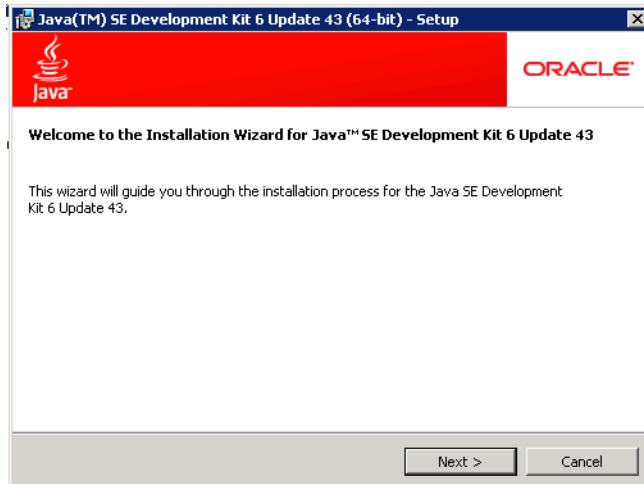
1. To download Sun Java 6:
 - (a) Go to <http://www.oracle.com/technetwork/java/javase/downloads/index.html>.
 - (b) On the **Downloads** tab, click **Previous Releases**.
 - (c) On the **Oracle Java Archive** page, click **Java SE 6**.
 - (d) On the **Java SE 6 Downloads** page, click the link for the most recent version of the Java SE Development Kit.

The page scrolls to the list of downloads for that version of the JDK.

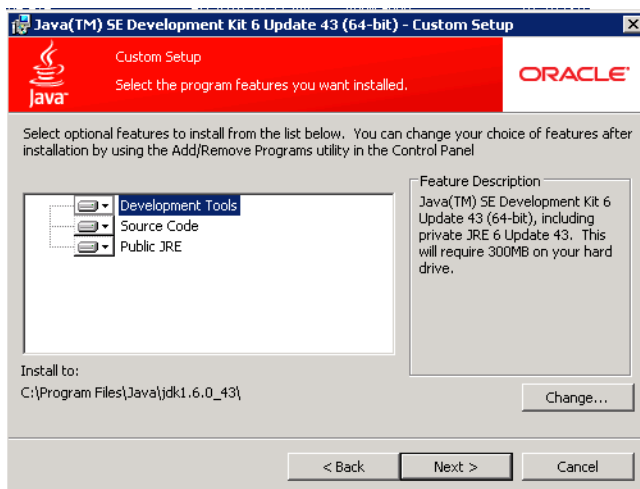
- (e) At the top of the list, click the **Accept License Agreement** radio button.
- (f) In the list, click the **Download** link for Windows x64 or Linux x64.
- (g) Save the file (`jdk-6u43-windows-x64.exe` or `jdk-6u43-linux-x64.bin`) to your machine.

2. To install the JDK on Windows:
 - (a) Double-click the JDK installer file.

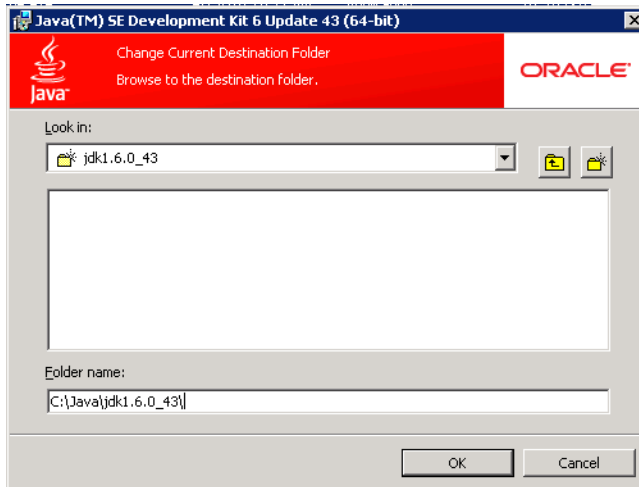
The welcome page of the installation wizard is displayed.



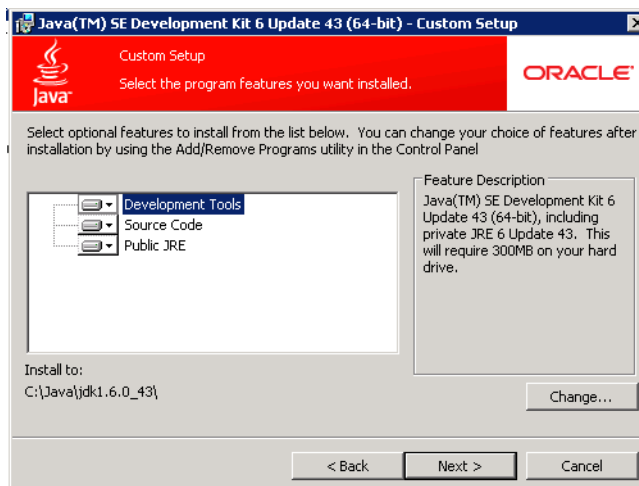
- (b) On the welcome page, click **Next**.
- (c) Because the default installation location (under `Program Files`) has a space, you must change it. On the **Custom Setup** page, click the **Change** button.



- (d) In the **Folder name** field, remove the Program Files directory, to change the location to:
C:\Java\jdk1.6.0_43\



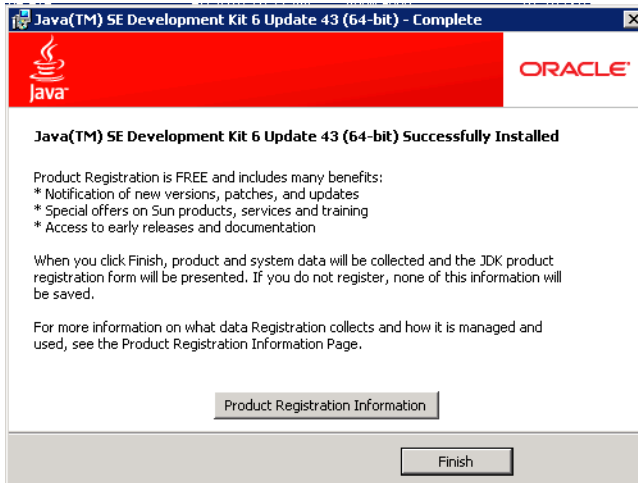
- (e) Click **OK**.
(f) On the **Custom Setup** page, verify that the installation location has been updated, then click **Next**.



- (g) On the **Destination Folder** page, change the location of the JRE to also remove the Program Files directory, then click **Next**.

The installation process begins.

- (h) When the installation is completed, click **Finish**.



3. To install the JDK on Linux:

- (a) Select a location for installation. For example, `$HOME/Oracle/Endeca`.
- (b) Place the JDK .bin file (`jdk-6u43-linux-x64.bin`) into `$HOME/Oracle/Endeca`, and ensure that it has execute permissions,
- (c) Execute the file.

The JDK is extracted into the directory. For example, `$HOME/Oracle/Endeca/jdk1.6.0_43`.

Downloading and installing WebLogic Server

If you are not installing Integrator Server on the same WebLogic Server instance as other Endeca Information Discovery components, then you need to download and install WebLogic Server.

To download and install WebLogic Server:

1. To download the WebLogic Server installation package:
 - (a) Go to <http://www.oracle.com/technetwork/middleware/weblogic/downloads/wls-for-dev-1703574.html>.
 - (b) Under **Oracle WebLogic Server Previous Releases**, expand the list for Oracle WebLogic Server 10.3.6.
 - (c) Download the **Generic** version of the installer (`wls1036_generic.jar`).

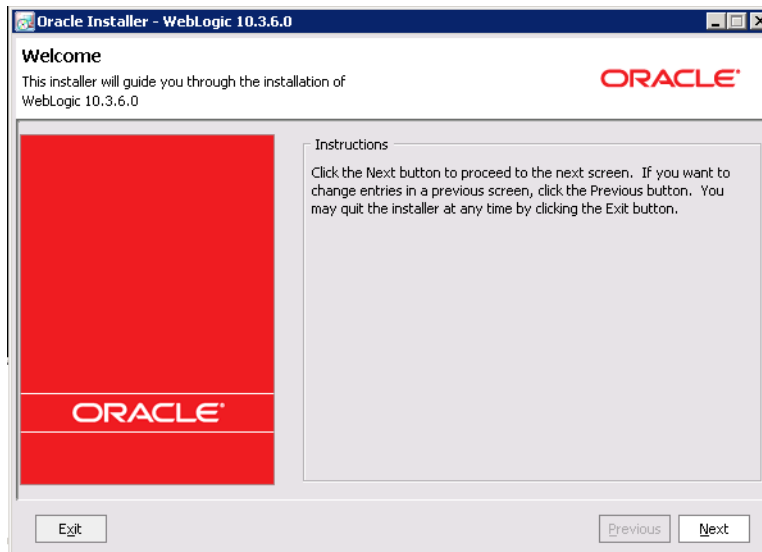
	Microsoft Windows (32-bit JVM)	Linux (32-bit JVM)	Solaris (32-bit JVM)	Additional Platforms (For 64-bit JVM Support, See Note Above)
Oracle WebLogic Server 10.3.6	See all files			
Oracle WebLogic Server 11gR1 (10.3.6) + Coherence + OEPE - Package Installer	x86: 1.5 GB File1	x86: 1.5 GB File1		Mac OS X: 1.7 GB File1
Oracle WebLogic Server 11gR1 (10.3.6) + Coherence - Package Installer	x86: 820 MB File1	x86: 831 MB File1	SPARC: 783 MB File1	Generic: 1 GB File1
Oracle WebLogic Server 11gR1 (10.3.6) 703 File Distribution	x86: 330 MB File1	x86: 330 MB File1		Mac OS X: 330 MB File1

2. From a command prompt, navigate to the directory where you placed `wls1036_generic.jar`.

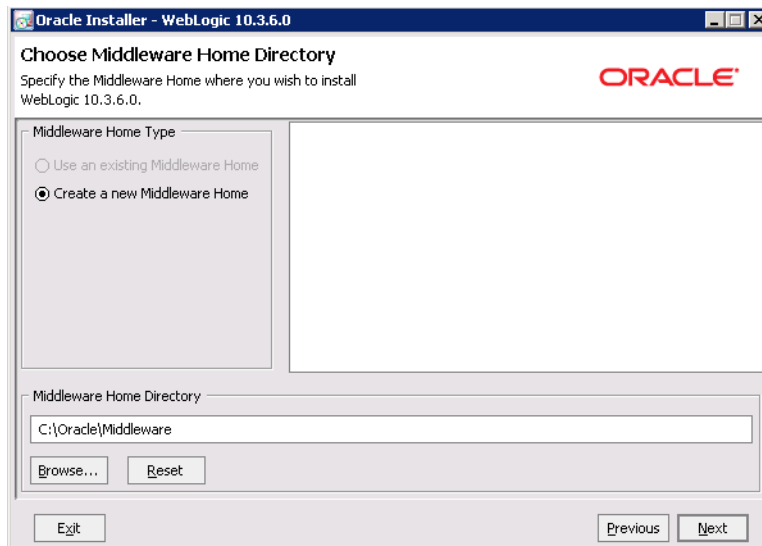
3. To launch the installer, issue the following command:

```
java -jar wls1036_generic.jar
```

The **Welcome** page of the installation wizard is displayed.

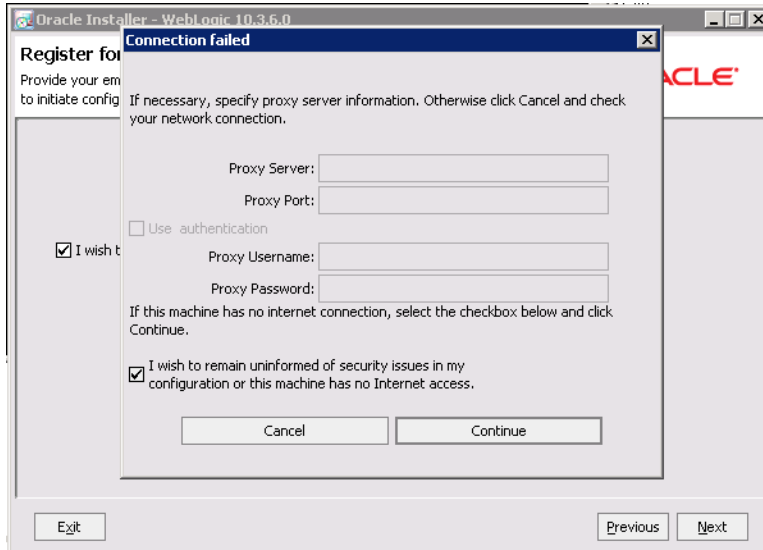


4. On the **Welcome** page, click **Next**.
5. On the **Choose Middleware Home Directory** page:
 - (a) Click the **Create a new Middleware Home** radio button.
 - (b) Accept the default location for the Middleware Home Directory.
 - (c) Click **Next**.

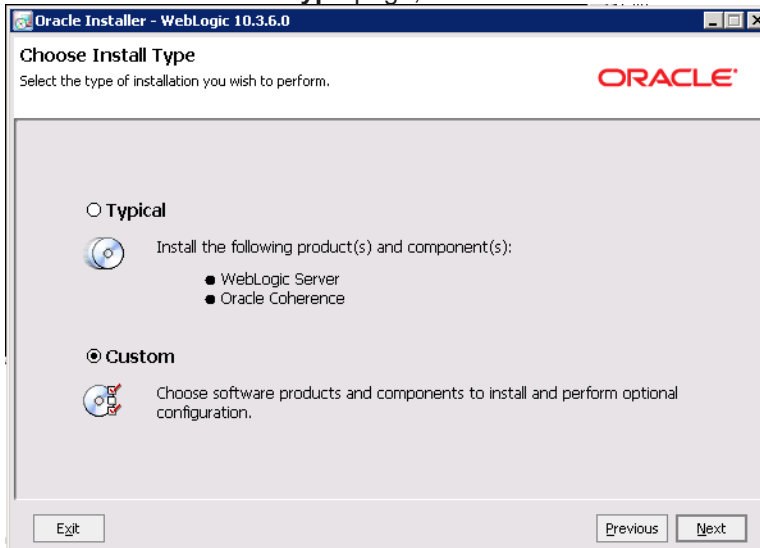


6. To bypass the **Register for Security Updates** page:
 - (a) Click **Next** without entering an email address.
 - (b) On the **Email Address Not Specified** dialog, click **Yes**.

- (c) On the **Are You Sure?** dialog, click **Yes**.
- (d) On the **Connection failed** dialog, check the **I wish to remain uninformed of security issues in my configuration or the machine has no Internet access** checkbox, then click **Continue**.

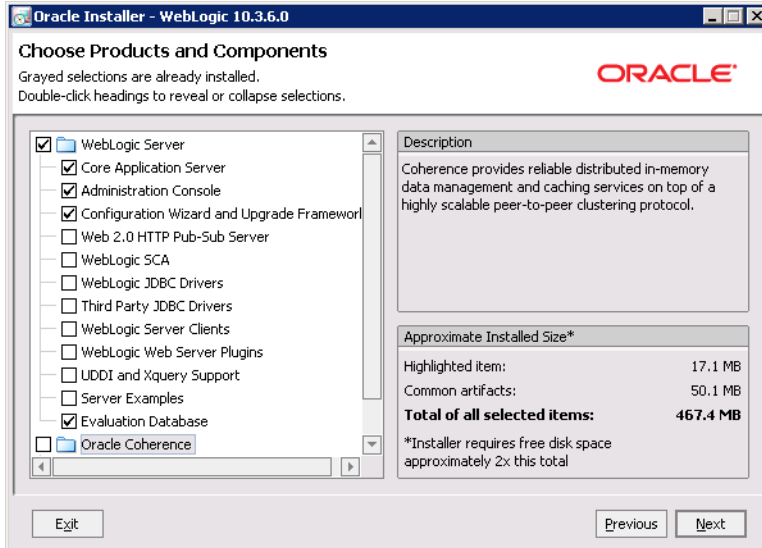


7. On the **Choose Install Type** page, click the **Custom** radio button, then click **Next**.



8. On the **Choose Products and Components** page, check the following products, then click **Next**:
- **Core Application Server**
 - **Administration Console**
 - **Configuration Wizard and Upgrade Framework**

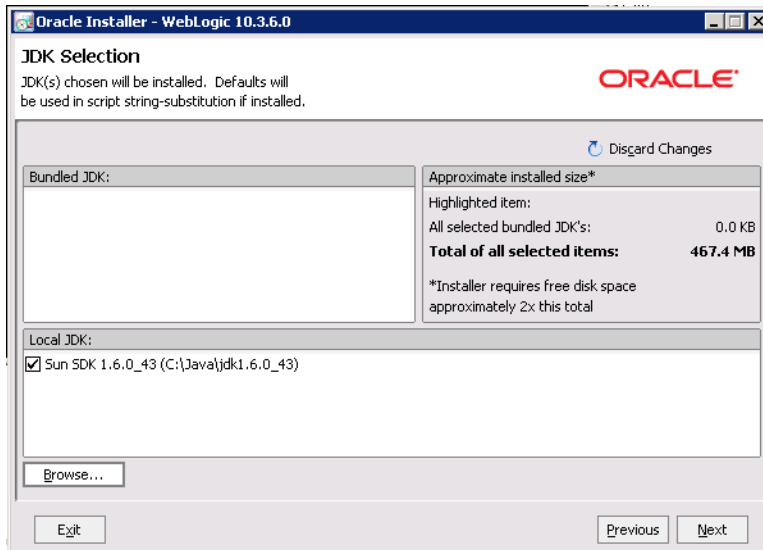
• **Evaluation Database**



9. On the **JDK Selection** page, verify that the JDK you installed is selected. If it is, click **Next**. If that version of the JDK is not selected:

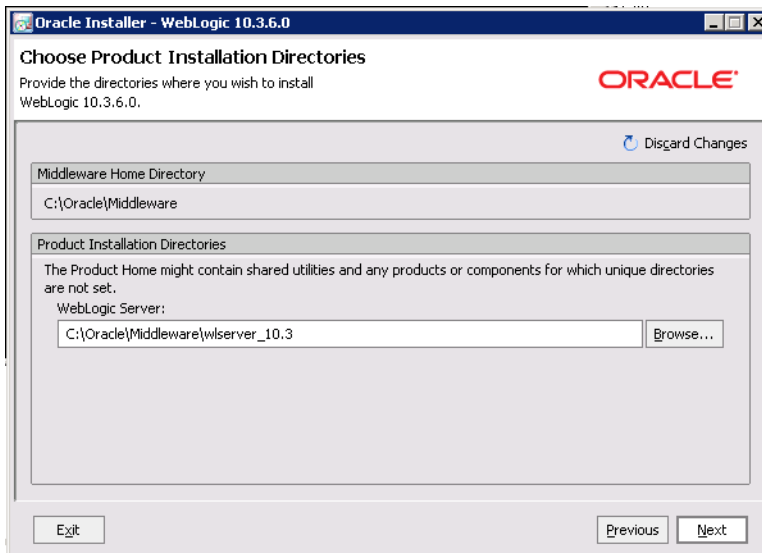
- (a) Under **Local JDK**, click the **Browse** button.
- (b) Browse to and select the directory that contains the JDK (C:\Java\jdk1.6.0_43\ or %HOME%/Oracle/Endeca/jdk1.6.0_43)

The **Local JDK** section is updated to display the selected JDK with a checked box next to it.

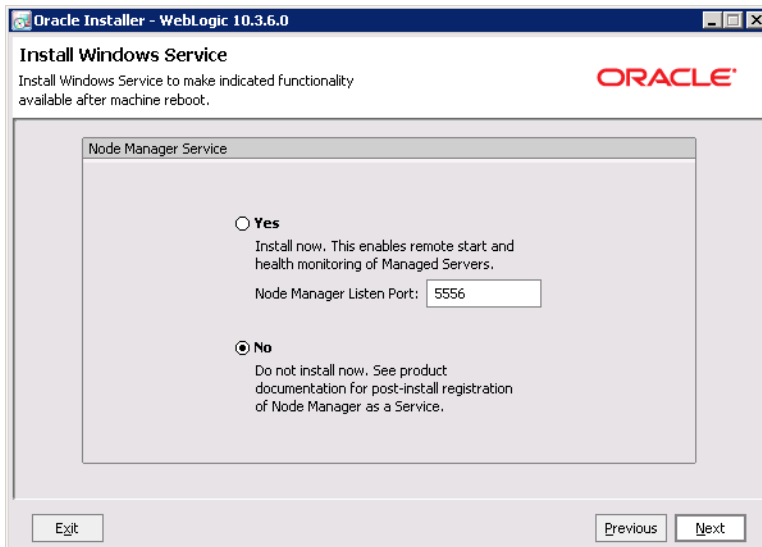


(c) Click **Next**.

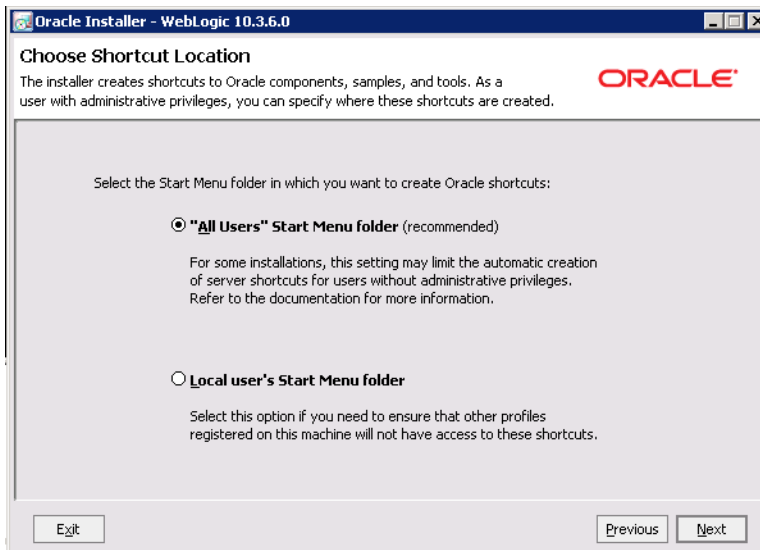
10. On the **Choose Product Installation Directories** page, accept the default installation directory, then click **Next**.



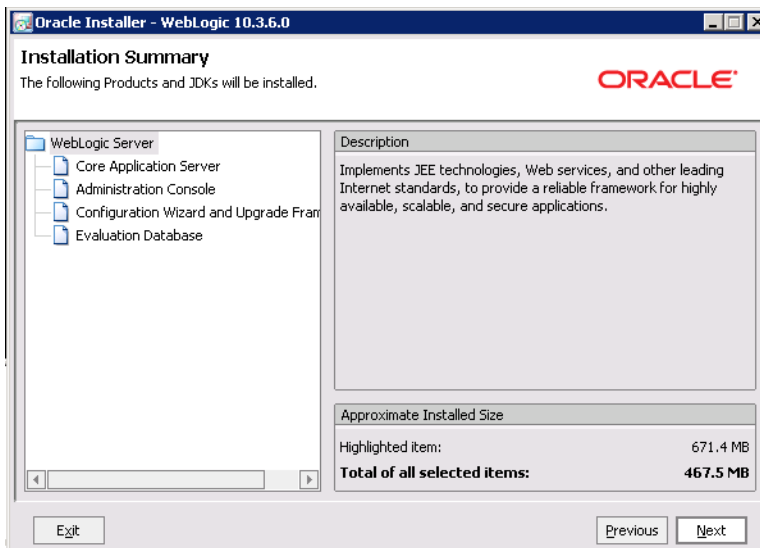
11. If the **Install Windows Service** page is displayed, click the **No** radio button, then click **Next**.



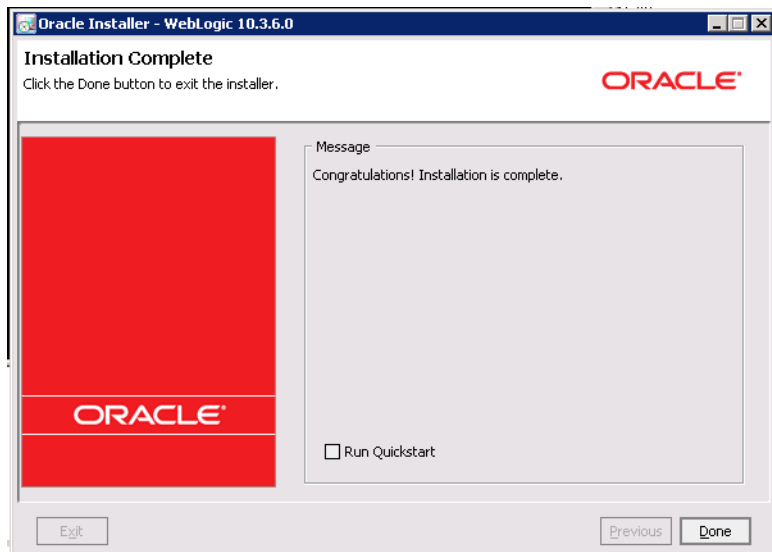
12. If the **Choose Shortcut Location** page is displayed, click a radio button to select the location of the Windows shortcut, then click **Next**.



13. On the **Installation Summary** page, verify that you are installing the correct products, then click **Next**.



14. On the **Installation Complete** page, uncheck the **Run Quickstart** checkbox, then click **Done**.



For Windows, an **Oracle WebLogic** shortcut is created in the **Start Menu**.

Creating and configuring a WebLogic domain for Integrator Server

Integrator Server must be installed in its own WebLogic domain. To avoid any conflicts, the domain cannot contain any other applications. Even if you are installing Integrator Server on the same instance of WebLogic Server as other Oracle Endeca Information Discovery components, you must create a separate domain for Integrator Server.

To create and configure the WebLogic domain, and verify that the domain is not already in use:

1. From a command prompt, change to the directory that contains the Configuration Wizard start-up program.

For example, for Windows:

```
C:\Oracle\Middleware\wlserver_10.3\common\bin
```

For Linux:

```
$MW_HOME/wlserver_10.3/common/bin
```

2. To start the Configuration Wizard, run the following command:

For Windows:

```
config.cmd
```

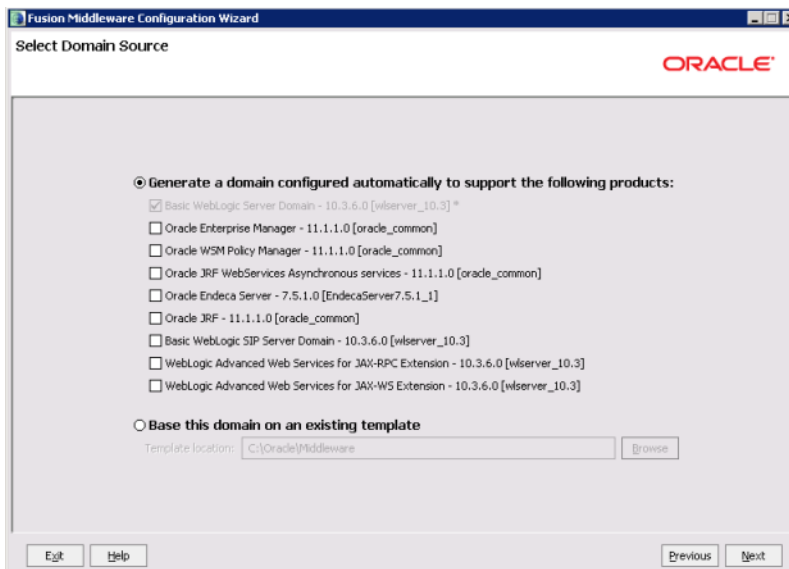
For Linux:

```
./config.sh
```

The Configuration Wizard **Welcome** page is displayed.



3. On the **Welcome** page, click the **Create a new WebLogic domain** radio button, then click **Next**.
4. On the **Select Domain Source** page, the **Basic WebLogic Server Domain** checkbox is checked by default. Click **Next**.



5. On the **Specify Domain Name and Location** page:
 - (a) Set the domain name to `endeca_integrator_server_domain`
 - (b) Keep the default domain location.

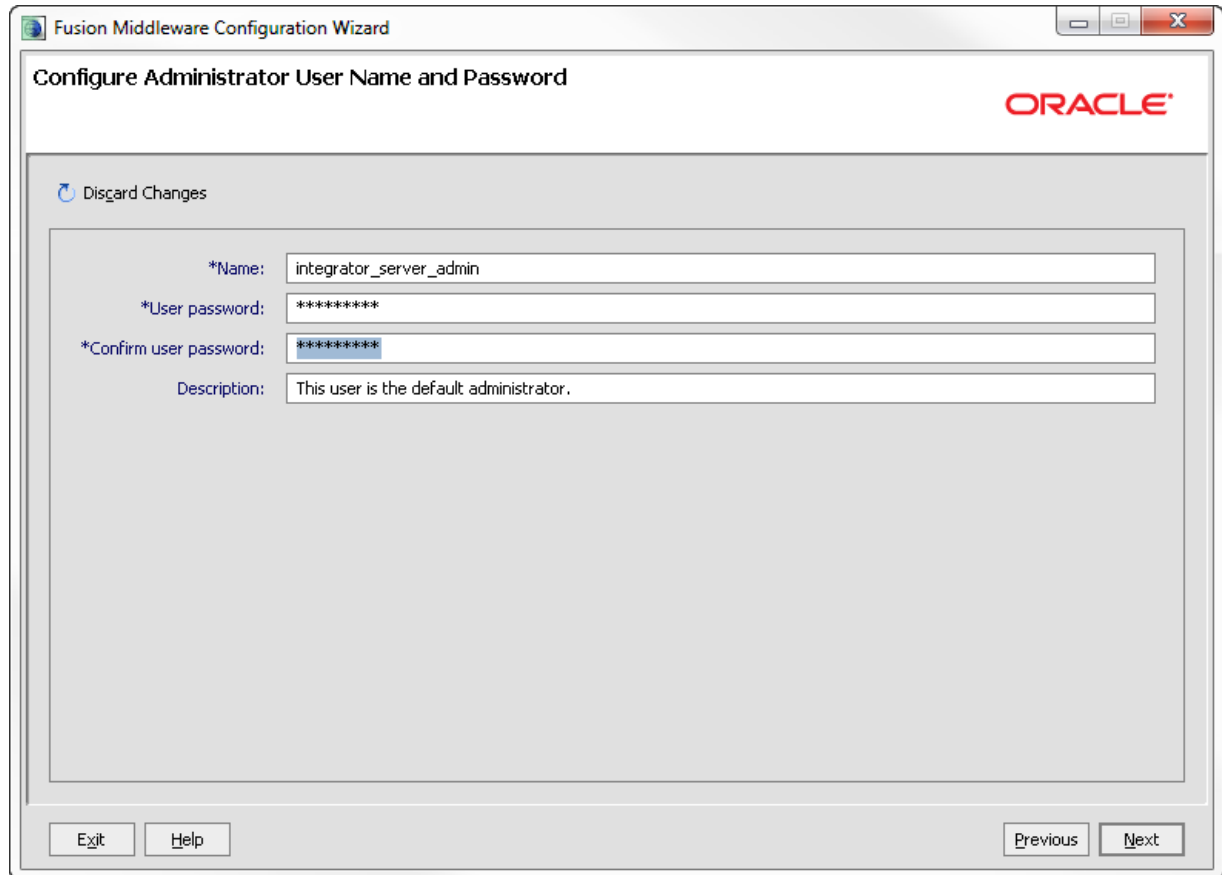
(c) Click **Next**.

The screenshot shows a Windows-style dialog box titled "Fusion Middleware Configuration Wizard". The main heading is "Specify Domain Name and Location" with the Oracle logo in the top right corner. The central text reads "Enter the name and location for the domain:". Below this, there are two input fields: "Domain name:" with the text "endeca_integrator_server_domain" and "Domain location:" with the text "C:\Oracle\Middleware\user_projects\domains". A "Browse" button is positioned to the right of the domain location field. At the bottom of the dialog, there are four buttons: "Exit", "Help", "Previous", and "Next".

6. On the **Configure Administrator User Name and Password** page, to create the administrator credentials for starting the Studio domain:
 - (a) In the **Name** field, type the name for the administrator user.
 - (b) In the **User password** field, type the user password.

The password must be at least eight characters long.
 - (c) In the **Confirm user password** field, retype the password.
 - (d) Optionally, in the **Description** field, type a description for the user account.

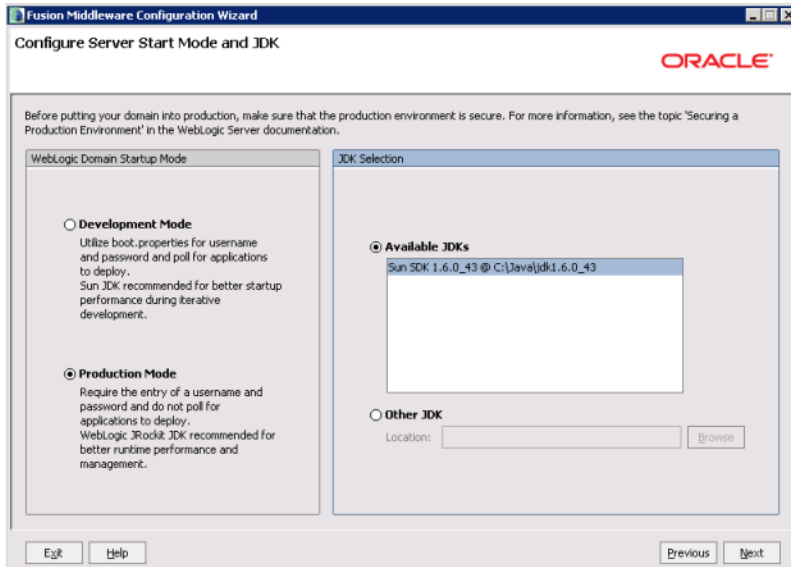
(e) Click **Next**.



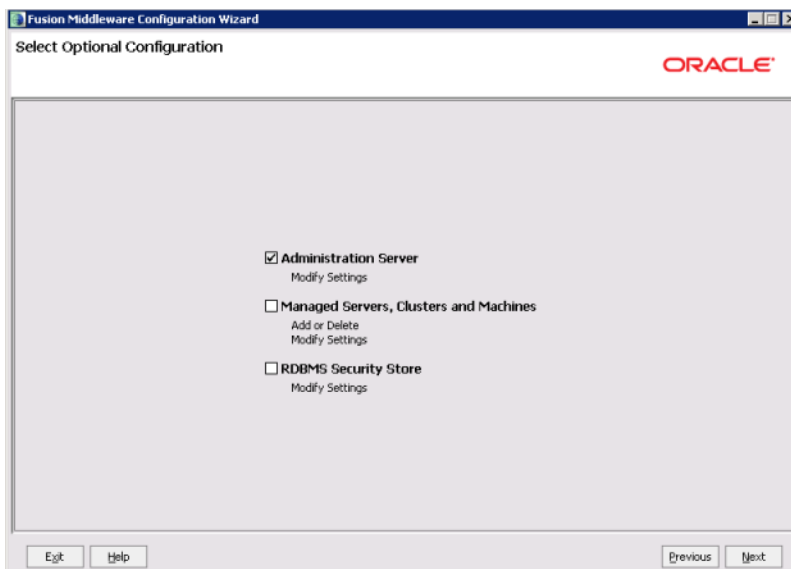
The screenshot shows a window titled "Fusion Middleware Configuration Wizard" with the subtitle "Configure Administrator User Name and Password". The Oracle logo is in the top right corner. Below the title bar, there is a "Discard Changes" button. The main area contains four input fields: "*Name:" with the value "integrator_server_admin", "*User password:" with "*****", "*Confirm user password:" with "*****", and "Description:" with the text "This user is the default administrator.". At the bottom, there are "Exit", "Help", "Previous", and "Next" buttons.

7. On the **Configure Server Start Mode and JDK** page:
 - (a) Under **WebLogic Domain Startup Mode**, click the **Production Mode** radio button.
 - (b) Under **JDK Selection**, click the **Available JDKs** radio button.
 - (c) In the JDK list, click the Sun Java JDK that you installed earlier. If the JDK is not displayed, click the **Other JDK** button, and then browse to it.

(d) Click **Next**.

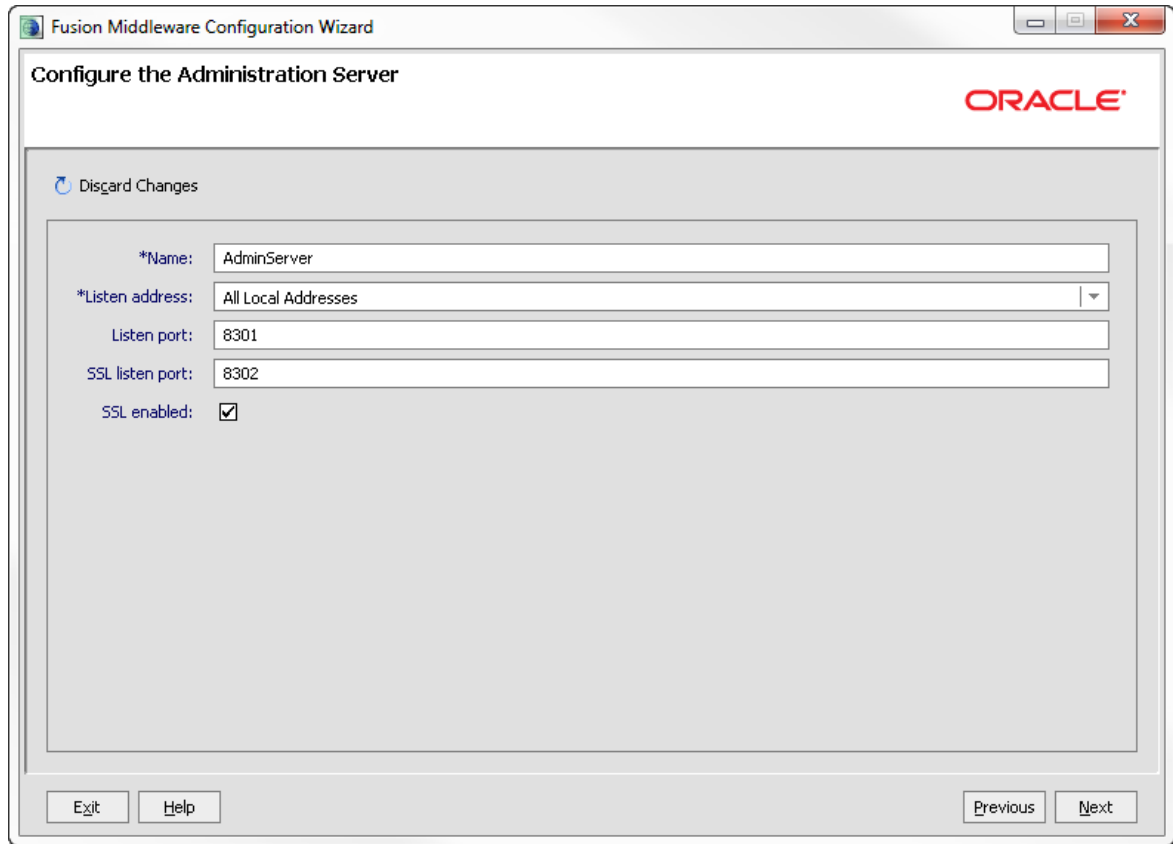


8. On the **Select Optional Configuration** page, check the **Administration Server** checkbox, then click **Next**.



9. On the **Configure the Administration Server** page:
 (a) Use the default values for the **Name** and **Listen address** fields.

- (b) In the **Listen port** field, type 8301.



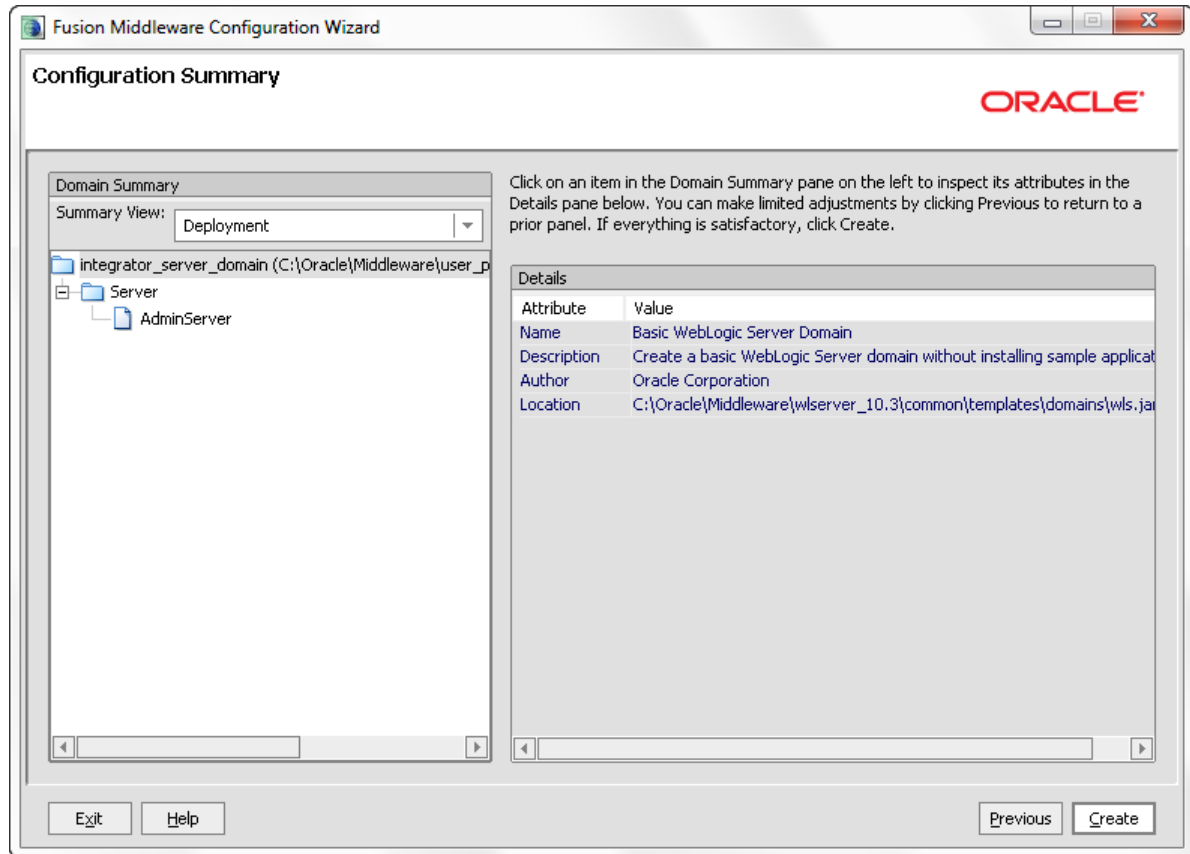
The screenshot shows the 'Configure the Administration Server' dialog box from the Fusion Middleware Configuration Wizard. The dialog has a title bar with the text 'Fusion Middleware Configuration Wizard' and standard window controls. The main content area is titled 'Configure the Administration Server' and features the Oracle logo in the top right corner. Below the title, there is a 'Disgard Changes' button with a circular arrow icon. The configuration fields are as follows:

- *Name:** AdminServer
- *Listen address:** All Local Addresses (dropdown menu)
- Listen port:** 8301
- SSL listen port:** 8302
- SSL enabled:**

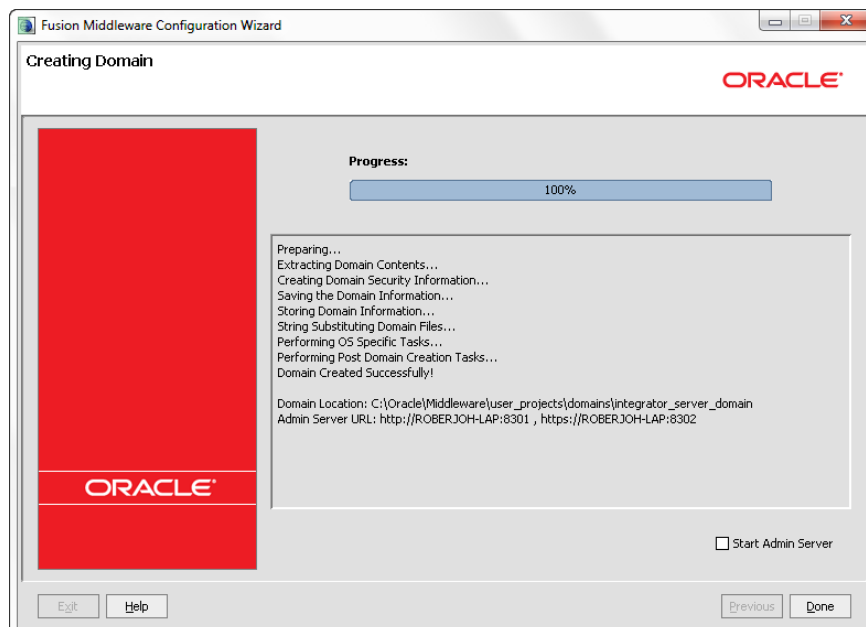
At the bottom of the dialog, there are four buttons: 'Exit', 'Help', 'Previous', and 'Next'.

- (c) If you want to enable SSL, then check the **SSL enabled** checkbox, and in the **SSL listen port** field, type 8302.
- (d) Click **Next**.

10. On the **Configuration Summary** page, to create the domain, click **Create**.



On the **Creating Domain** page, the message "Domain Created Successfully!" signifies the end of the domain creation process.



11. To exit the Configuration Wizard, click **Done**.
12. Default JVM memory settings are not high enough to run the Web Logic server when Oracle Endeca Integrator Server is installed. Required memory settings depend on a variety of factors, including the number and complexity of transformations performed during processing. Exceeding the specified memory settings results in failed processing and reports of OutOfMemory errors in server logs and console output. To modify maximum memory, add the `USER_MEM_ARGS` environment variable to the domain start scripts.

- In Linux, add the following code to `startWebLogic.sh` (modify the memory sizes to meet your needs):

```
export USER_MEM_ARGS="-Xms128m -Xmx2048m -XX:MaxPermSize=512m"
```

- In Windows, add the following code to `startWebLogic.cmd` (modify the memory sizes to meet your needs):

```
set USER_MEM_ARGS=-Xms128m -Xmx2048m -XX:MaxPermSize=512m
```



Important: The minimum recommended permgen space for Web Logic when running Integrator Server is 512 MB.



Note: You must restart the domain after modifying memory sizes.

13. Change HTTP Basic Authentication configuration to allow the Oracle Endeca Integrator Server to authenticate users. Add the following XML element to the configuration file (`[domainHome]/config/config.xml`) just before the end tag of the `<security-configuration>` element:

```
<enforce-valid-basic-auth-credentials>false</enforce-valid-basic-auth-credentials>
```

After you create the WebLogic domain for Studio, then you can deploy the Integrator Server and its license application. See [Installing Integrator Server into a WebLogic domain on page 32](#).

Installing Integrator Server into a WebLogic domain

Use the WebLogic Administration Console to deploy the Integrator Server and Integrator Server license applications to the WebLogic domain.

To deploy Integrator Server to the Weblogic domain:

1. Download the Oracle Endeca Integrator Server package for your operating system from the [Oracle Software Delivery Cloud](#).
 - (a) Start a browser and go to `https://edelivery.oracle.com`.
 - (b) Log in and accept the licensing and export agreements.

The Media Pack Search page is returned.
 - (c) In the **Select a Product Pack** field, choose Oracle Endeca,
 - (d) In the **Platform** field, choose the platform to which you want to install Integrator Server.
 - (e) Click **Go**

A list of available Media Packs is returned.

- (f) select the radio button for **Oracle Endeca Information Discovery Integrator (3.0) Media Pack**. Click **Continue**.

The Oracle Endeca Information Discovery Integrator (3.0) Media Pack page is returned.

- (g) Click the **Download** button next to Oracle Endeca Information Discovery Integrator (3.0).

The Integrator media package is downloaded to your computer.

2. Unzip the package to a convenient location on the machine that runs WebLogic.
3. If your WebLogic domain is not already running, start it.
4. Start a browser. In the address field, enter `http://<machine_name>:8301/console`.
5. Log in to the WebLogic domain as the domain administrator, or another user with administration privileges.

WebLogic Server displays the Administration Console.

6. Click `Deployments`.

WebLogic Server displays the Summary of Deployments page.

7. Click `Install`.

WebLogic Server displays the Install Application Assistant page.

8. Enter the **Path** to the location where you unzipped the Integrator package. Include the `\Integrator Server Weblogic WAR` directory in the path

The page is refreshed and the contents of the current location are displayed. The contents of the `\Integrator Server Weblogic WAR` directory include `clover.war` and `clover-license.war`.

9. Click the radio button for `Clover.war`.

10. Click **Next**.

The Choose targeting style page is returned.

11. Select the **Install this deployment as an application** radio button. Click **Next**.

The Optional Settings page is returned.

12. Click **Finish**.

The Integrator Server Web application (`clover.war`) is deployed. When the deployment is complete, the Summary of Deployments page is returned.



Note: If the deployment takes an extended period of time, and a blank page is returned, deployment of the Integrator Server has probably exceeded available memory and deployment of the Web application has failed. Stop the server and configure the JVM memory settings. For more information, see Step 12 in [Creating and configuring a WebLogic domain for Integrator Server on page 25](#).

13. Repeat steps 9 to 12 of this procedure to deploy the `clover-license.war` web application.

If you do not deploy the license Web application, when you log in to the Integrator Server, a message will be displayed that the license has expired.

14. WebLogic Server starts Web applications immediately after deployment. To validate that the Oracle Endeca Integrator Server is functioning correctly:
 - (a) Start a browser and enter the URL `http://localhost:8301/clover`.

The browser displays Oracle Endeca Integrator Server Welcome page.
 - (b) To log in to the server, click the **Log in to Server Administration** button. On the login page, enter `clover` as the **Username** and `clover` as the **Password**.
 - (c) If the administration page displays a message that the license has expired, then the license was not deployed correctly. Redeploy the license.

Configure Integrator Server. For details, see "Configuration of CloverETL Server on WebLogic" in the *Integrator Server Guide*.



Chapter 5

Uninstalling Integrator

This chapter describes how to uninstall Integrator.

[Uninstalling Integrator](#)

[Uninstalling Integrator Server](#)

Uninstalling Integrator

This section contains the procedures for uninstalling the Integrator package.

[Uninstalling Integrator on Windows](#)

[Uninstalling Integrator on Linux](#)

Uninstalling Integrator on Windows

Follow these steps to uninstall Integrator from your Windows client machine.

Although the uninstall procedure does not delete the workspace folder used by Integrator, it is a good practice to back up your Integrator projects before uninstalling.

To uninstall Integrator from your Windows machine:

1. Close Integrator if you have it open.
2. Open **All Programs** in the Start menu.
3. Open the **Oracle Endeca Information Discovery 3.0.0** entry.
4. Click **Uninstall Integrator**.
The Uninstall wizard is launched with the **Uninstall** option selected.
5. In the Uninstall wizard, click **Next**.
6. In the Completing the Setup Wizard dialog, click **Next**.
7. When the uninstallation procedure is completed, click **Finish**.

Note that alternatively, you can uninstall Integrator from the Windows Control Panel by selecting **Programs > Uninstall a program** and then choosing **Oracle Endeca Information Discovery Integrator 3.0.0** from the list of installed software.

Uninstalling Integrator on Linux

Follow these steps to uninstall Integrator from your Linux client machine.

Although the uninstall procedure does not delete the workspace directory for Integrator, it is a good practice to back up your Integrator projects before uninstalling.

To uninstall Integrator from your Linux machine:

1. Change to the parent directory of the Integrator install directory.
The default parent directory is `Oracle/Endeca/Discovery`.
2. Issue an `rm` command as in this example:

```
rm -rf Integrator
```

As mentioned above, the Integrator workspace folder is not deleted after Step 2. If you do not delete the workspace directory, you can reuse it if you reinstall Integrator.

Uninstalling Integrator Server

Uninstallation procedures are different on Tomcat and WebLogic Server.

[Uninstalling Integrator Server from Tomcat](#)

[Uninstalling Integrator Server from WebLogic Server](#)

Uninstalling Integrator Server from Tomcat

Follow these steps to uninstall Integrator Server from Tomcat.

To uninstall Integrator Server from your Windows or Linux machine:

1. Shut down Tomcat.
2. Delete the Tomcat install directory.

Uninstalling Integrator Server from WebLogic Server

Use the standard WebLogic Server procedure for uninstalling web applications to uninstall Integrator Server from WebLogic Server.

For details, see "Delete Web applications" in the Oracle WebLogic Server Administration Console Online Help.

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