

Oracle® Endeca Information Discovery Integrator

Integrator Acquisition System Installation Guide

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Preface

Oracle® Endeca Information Discovery Integrator is a powerful visual data integration environment that includes:

The Information Acquisition System (IAS) for gathering content from delimited files, file systems, JDBC databases, and Web sites.

Integrator ETL, an out-of-the-box ETL purpose-built for incorporating data from a wide array of sources, including Oracle BI Server.

In addition, Oracle Endeca Web Acquisition Toolkit is a Web-based graphical ETL tool, sold as an add-on module. Text Enrichment and Text Enrichment with Sentiment Analysis are also sold as add-on modules. Connectivity to data is also available through Oracle Data Integrator (ODI).

About this guide

This guide describes how to download, install, and start the Integrator Acquisition System on Windows and UNIX.

Who should use this guide

This guide is intended for developers who are responsible for loading source data into an Endeca data domain.

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.

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.

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

Before You Install

This section provides an overview of the Integrator Acquisition System, system requirements, and other information you need to know before installing.

[Overview of the Integrator Acquisition System](#)

[Choosing to install IAS into WebLogic Server or Jetty Web server](#)

[System requirements](#)

[IAS Document Conversion Module](#)

[Supported data sources](#)

[Recommended reading](#)

Overview of the 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, JDBC databases, flat files, 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 ETL.

Choosing to install IAS into WebLogic Server or Jetty Web server

IAS installs into an application server and runs as a hosted application. IAS supports both WebLogic Server and Jetty Web server.

You typically install IAS into WebLogic Server in scenarios where your other Endeca products are also running in WebLogic Server and in production environments. For example, you might have IAS, Integrator ETL, Studio, and Endeca Server running as applications in WebLogic Server. Note however, IAS does not require many features provided by WebLogic, so this installation approach is primarily for ease of administration when hosting the entire Endeca stack.

You typically install IAS into Jetty in scenarios where you want a light-weight Web server to host IAS while you perform data development work in a development environment.

System requirements

The Integrator Acquisition System has the following system requirements. In this guide, the term “x64” refers to any processor compatible with the AMD64/EM64T architecture. Hard disk capacity must be sufficient to

store the records written to the Record Store or to record output files. Please contact your Oracle representative if you need more information on hardware sizing.

Supported operating systems

IAS is supported on the following 64-bit operating systems:

Operating System	Description
Oracle Linux	<ul style="list-style-type: none"> Oracle Linux Release 6 for x64 Oracle Linux Release 5 for x64 Only the Red Hat Compatible Kernel is supported.
Linux RHEL	<ul style="list-style-type: none"> Red Hat Enterprise Linux Server version 6 for x64 Red Hat Enterprise Linux Advanced Platform version 6 for x64 Red Hat Enterprise Linux Server version 5 for x64 Red Hat Enterprise Linux Advanced Platform version 5 for x64 For best performance on Red Hat Linux version 5 (Server and Advanced), Oracle recommends the latest version of RHEL 5.
Windows 2008	Windows Server 2008 R2 Enterprise.

Hardware requirements for Linux and Windows on x64

Minimum hardware requirements:

- x64 processor, minimum 1.8 GHz
- 4 GB of RAM
- At least an 500 GB hard drive, depending on the size of your application data set

Software requirements when installing IAS into WebLogic Server

IAS runs in an application server. If you are installing IAS into WebLogic Server, the following software is required:

Software	Supported Versions
Application server	Oracle WebLogic Server 11gR1 (10.3.6)
Java	Sun Java 6. Oracle recommends that you use the latest Java 6 update.

Software requirements when installing IAS into Jetty Web server

There are no additional software requirements if you install IAS into the Jetty Web server.

IAS Document Conversion Module

The IAS Document Conversion Module is installed and enabled by default as part of the IAS installation. (IAS repackages and calls Outside In® Search Export 8.4.0 to perform document conversion during a crawl.)

For a list of supported file formats, see "Appendix B File Formats Supported by the IAS Document Conversion Module" in the *Integrator Acquisition System Developer's Guide*.

Supported data sources

For the full list of all supported data sources and information about configuring each, see the *Integrator Acquisition System Developer's Guide*.

Recommended reading

Before installing, Oracle recommends that you read the following documents for important information about the release.

Getting Started Guide

The *Oracle Endeca Information Discovery Getting Started Guide* guides you through the process of exploring a sample Endeca Information Discovery application.

Integrator User's Guide

The *Oracle Endeca Information Discovery Integrator ETL User's Guide* describes how to use the Oracle Endeca Information Discovery Integrator ETL to add data into an Endeca data domain.

Release Notes

Refer to the release notes for information about new features, changed features, and bug fixes for this release. The release notes (`README.txt`) are part of the IAS documentation download. After installation, release notes are also available in the following location:

- Windows: `<install path>\Oracle\Endeca\IAS\<version>`
- UNIX: `<install path>/Oracle/Endeca/IAS/<version>`



Chapter 2

Installing the Integrator Acquisition System

This section describes how to install IAS into either Jetty or into WebLogic Server and then describes the contents of the installation directory.

[Downloading IAS](#)

[About installing IAS on WebLogic Server](#)

[Installing on Windows](#)

[Installing on UNIX](#)

[Web Crawler installation](#)

[Package contents and directory structure](#)

Downloading IAS

You download IAS from the Oracle Software Delivery Cloud.

To download IAS:

1. Sign 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**.
4. In the media pack list, click **Oracle Endeca Information Discovery Integrator (3.1) Media Pack for <platform>**.
5. Download **Integrator Acquisition System (3.1) for <platform>**.

About installing IAS on WebLogic Server

You can install IAS as an application running in Oracle WebLogic Server. In most installation scenarios, you install IAS on the same WebLogic Server instance as Studio and Endeca Server. (You can skip this section if you plan to install IAS into Jetty.)

Before installing IAS into WebLogic Server, you must perform the following installation tasks:

1. Downloading and installing the Sun JDK.
2. Downloading and installing WebLogic Server.

You install IAS into WebLogic Server by running the IAS installation script and selecting WebLogic Server as the installation target. The IAS installation script creates and configures a WebLogic domain and then deploys IAS into that domain. By default, the new IAS domain is created in production mode rather than development mode.

For full instructions on installing all of Oracle Endeca Information Discovery (Endeca Server, Integrator ETL, Studio, and Provisioning Service) on a single WebLogic Server in a Windows environment, see the *Oracle Endeca Information Discovery Getting Started Guide*.

[Downloading and installing the Sun JDK](#)

[Downloading and installing WebLogic Server](#)

Downloading and installing the Sun JDK

Before installing WebLogic Server, you must install the Sun JDK.

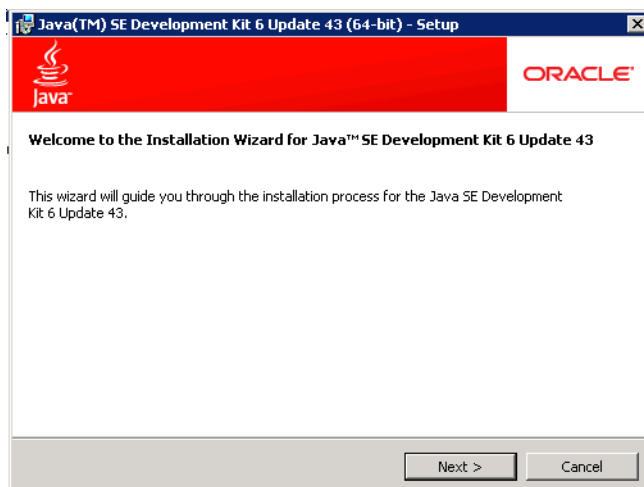
To download and install the Sun JDK:

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.

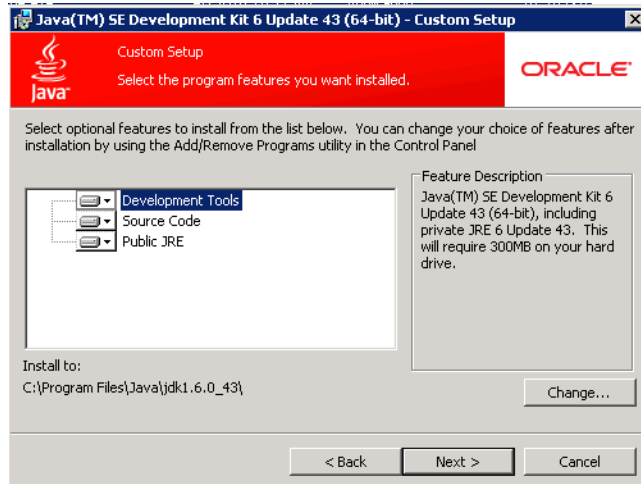
The page scrolls to the list of downloads for that version of the JDK.

- (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-<version>-windows-x64.exe` or `jdk-<version>-linux-x64.bin`) to your machine.
2. To install the JDK on Windows:
 - (a) Double-click the JDK installer file.

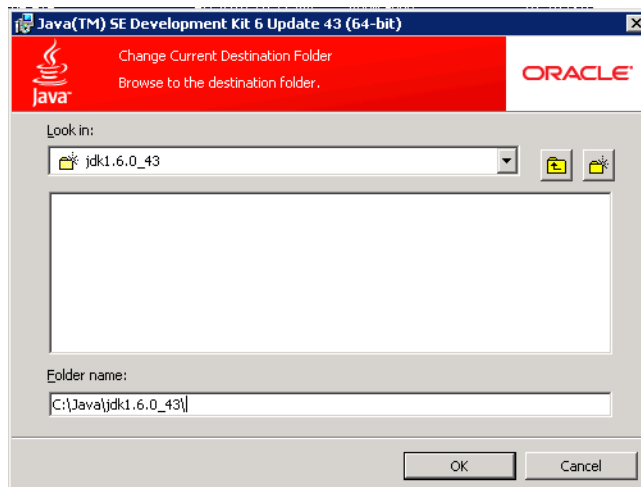
The welcome page of the installation wizard displays.



- (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 **Change**.

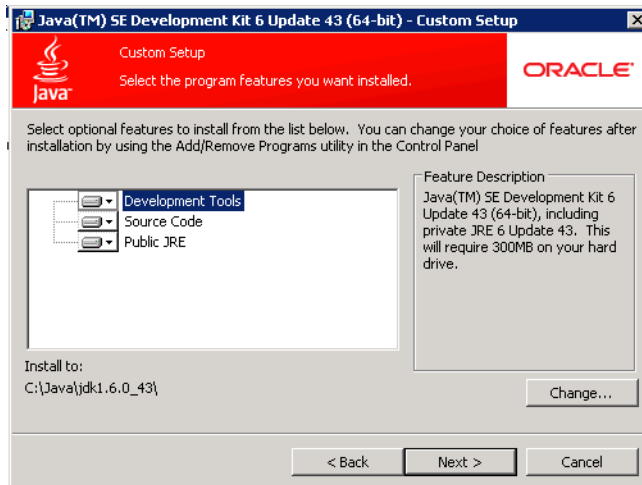


- (d) In the **Folder name** field, remove the `Program Files` directory, to change the location to: `C:\Java\jdk1.6.0_43\`

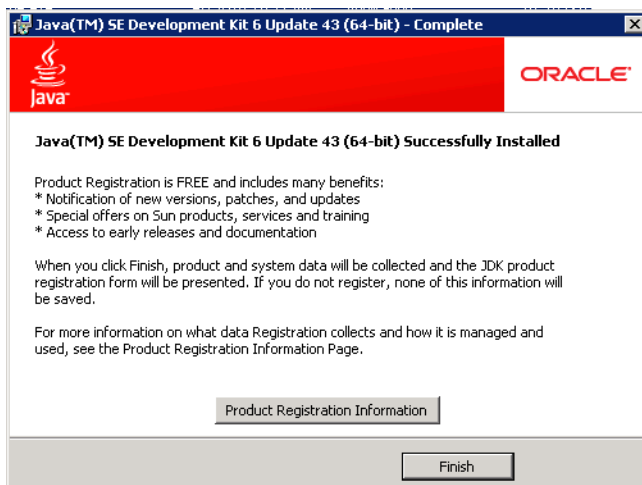


- (e) Click **OK**.

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



- (g) On **Destination Folder** page, leave the default directory and click **Next**.
The installation process begins.
- (h) When the installation completes, click **Finish**.



3. To install the Sun JDK on Linux:
- Select a location for installation. For example, `$HOME/Oracle/Endeca`.
 - Place the JDK .bin file (for example, `jdk-6u43-linux-x64.bin`) into `$HOME/Oracle/Endeca`, and ensure that it has execute permissions,
 - 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 IAS on the same server as Endeca Server, then you need to download and install WebLogic Server.

To download and install WebLogic Server:

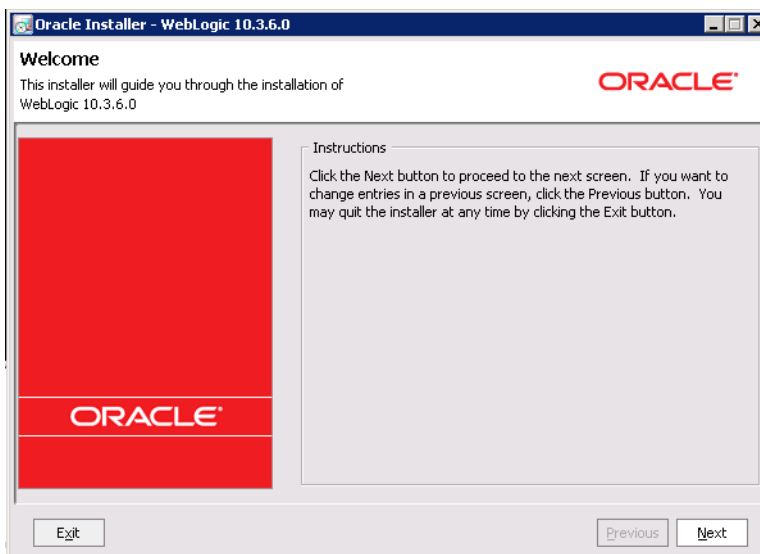
1. To download the WebLogic Server installation package:
 - (a) Go to <http://www.oracle.com/technetwork/middleware/weblogic/downloads/wls-for-dev-1703574.html>.
 - (b) Under **Oracle WebLogic Server Previous Releases**, expand the list for Oracle WebLogic Server 10.3.6.
 - (c) Download the **Generic**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

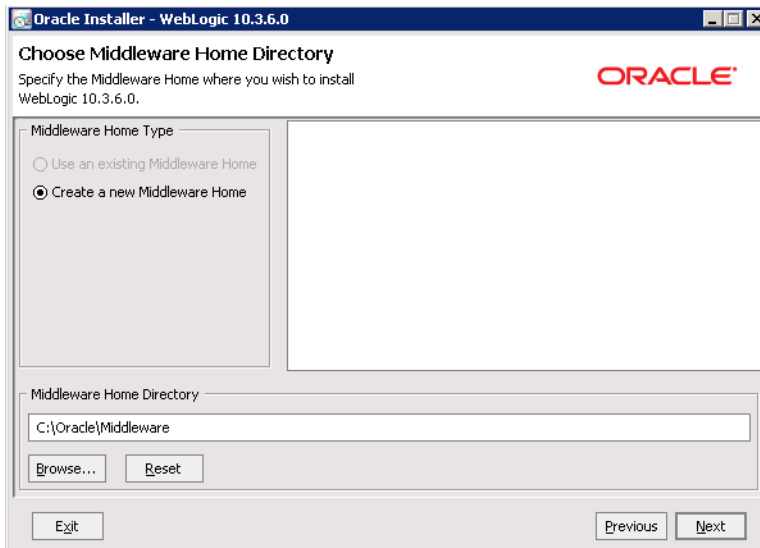
```
java -jar wls1036_generic.jar
```

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

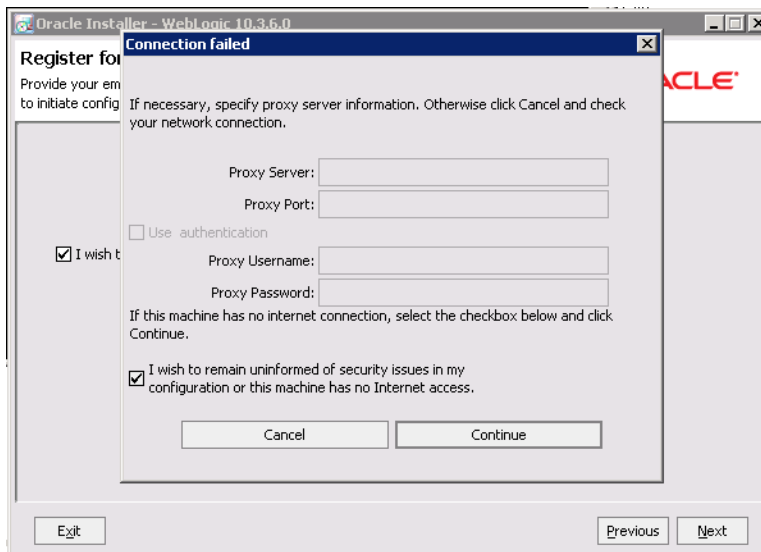


4. On the **Welcome** page, click **Next**.
5. On the **Choose Middleware Home Directory** page:
 - (a) Click the **Create a new Middleware Home** radio button.

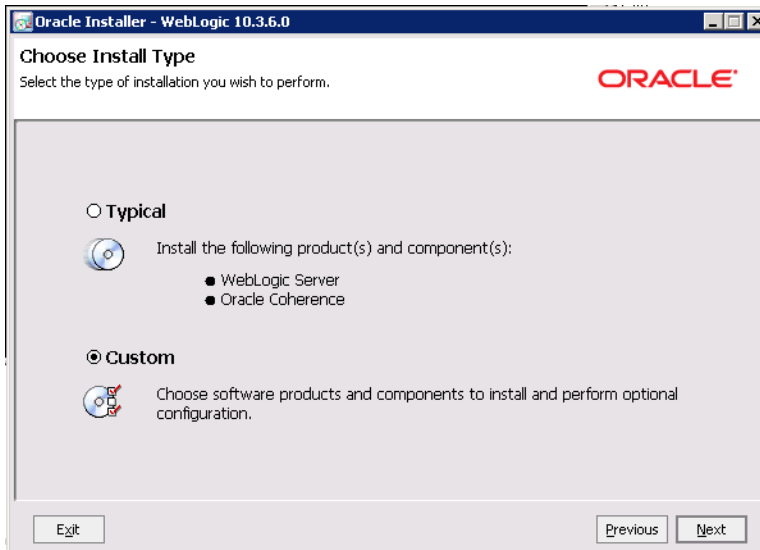
- (b) Accept the default location for the Middleware Home Directory.
- (c) Click **Next**.



- 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**.

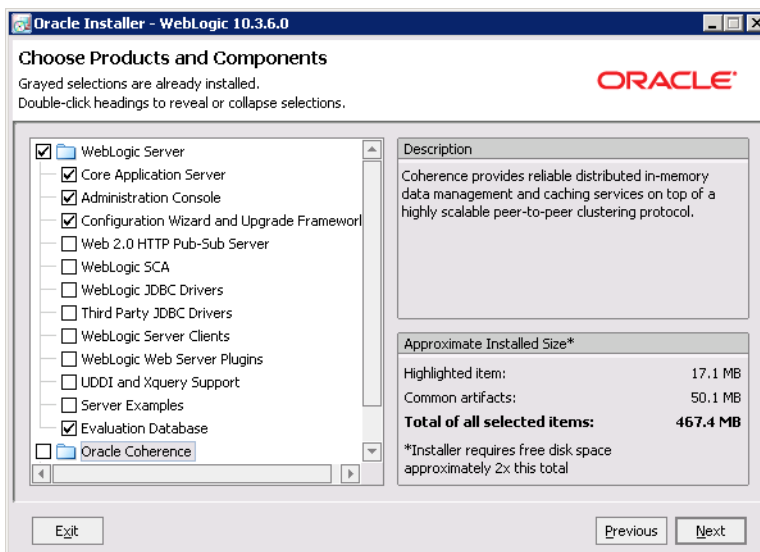


7. On the **Choose Install Type** page, click the **Custom**, then click **Next**.



8. On the **Choose Products and Components** page, check the following products, then click **Next**:

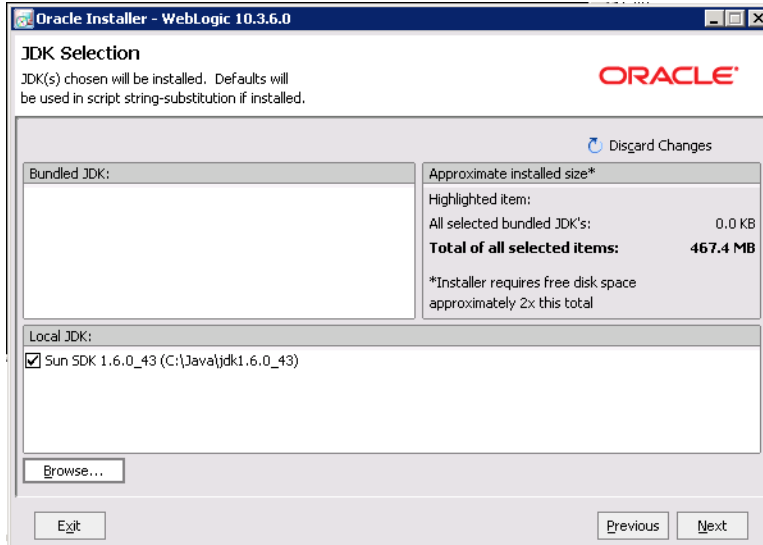
- **Core Application Server**
- **Administration Console**
- **Configuration Wizard and Upgrade Framework**
- **Evaluation Database**



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 **Browse**.

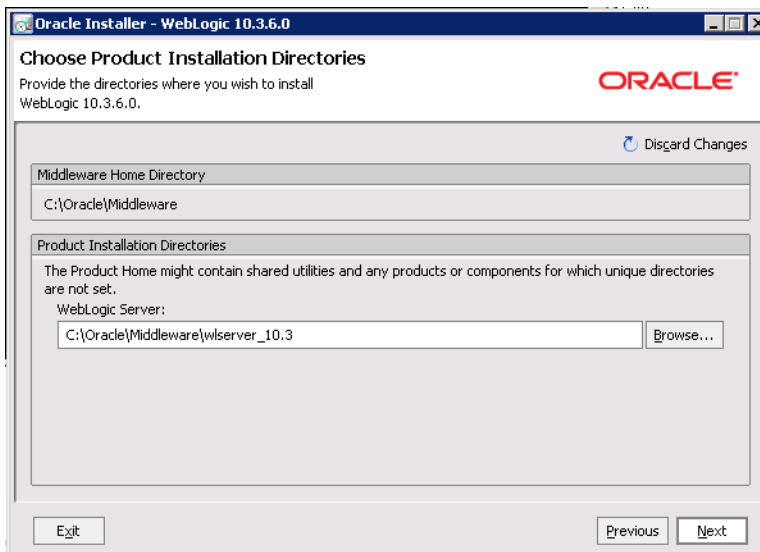
- (b) Browse to and select the directory that contains the JDK. For example, C:\Java\jdk1.6.0_43\ or \$HOME/Oracle/Endeca/jdk1.6.0_43)

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

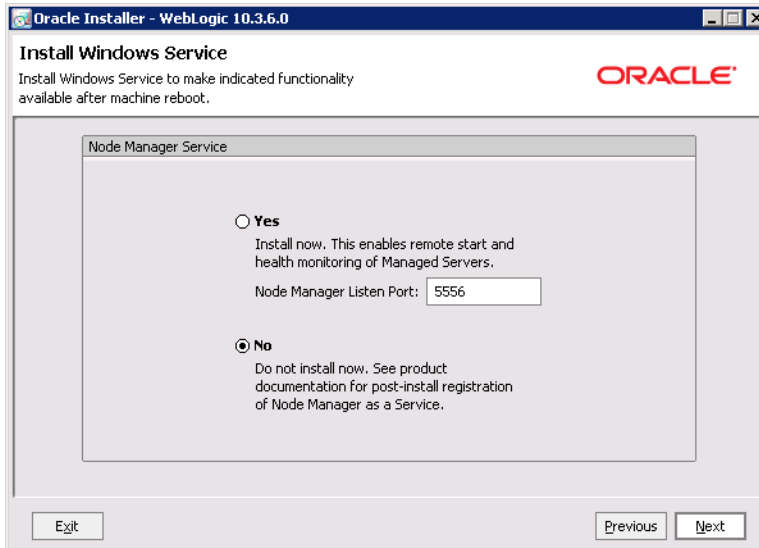


- (c) Click **Next**.

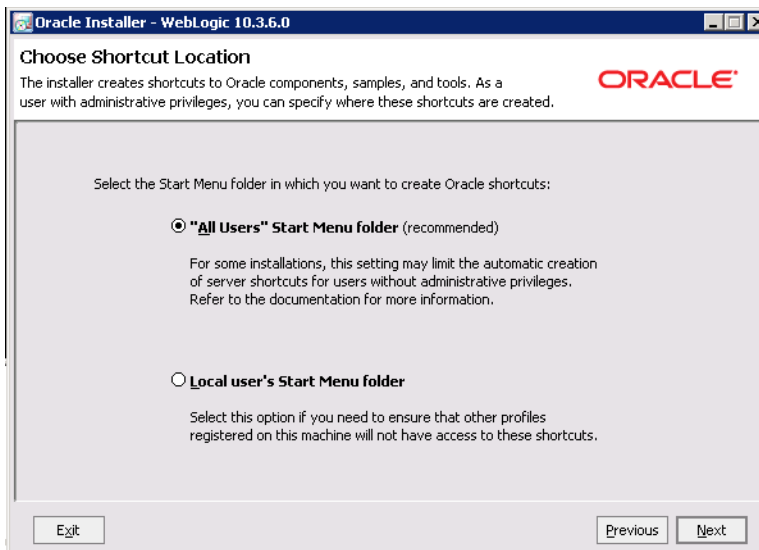
10. On the **Choose Product Installation Directories** page, accept the default installation directory, then click **Next**.



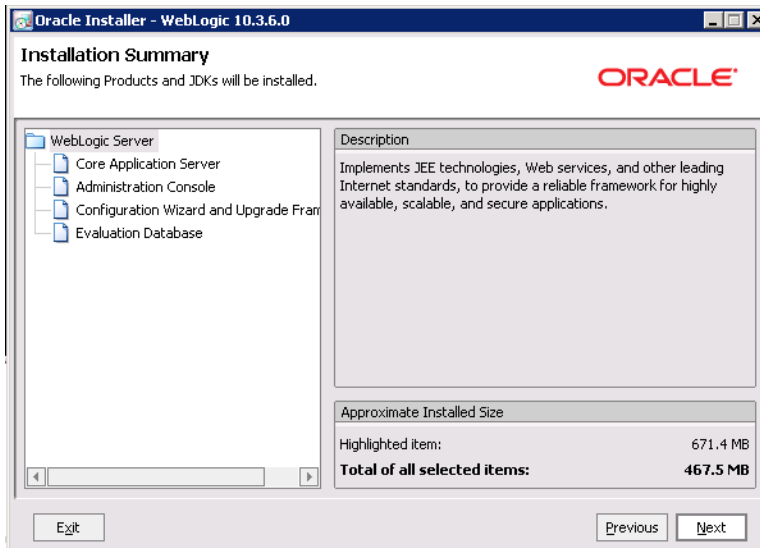
11. If the **Install Windows Service** page displays, click the **No**, then click **Next**.



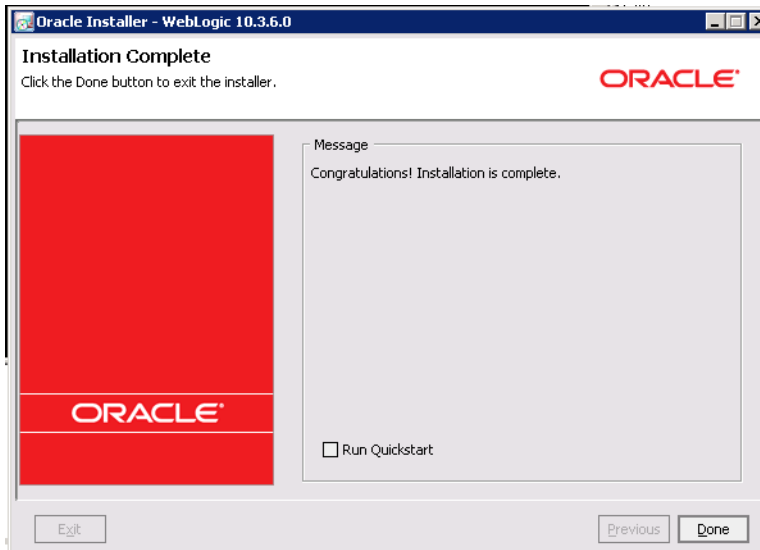
12. If the **Choose Shortcut Location** page displays, click a radio button to select the location of the Windows shortcut, then click **Next**.



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



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



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

Installing on Windows

This section describes how to install the Integrator Acquisition System on Windows.

[Creating a user for the Endeca services on Windows](#)

[Installing IAS on Windows](#)

[Installing IAS silently on Windows](#)

Creating a user for the Endeca services on Windows

This topic applies only to IAS installations on Jetty Web server. You can skip this topic if you install IAS on WebLogic Server. You must run the Endeca services as a specified user, for which you can control permissions.

The IAS installation script prompts for the Endeca services user during the installation process. Oracle recommends that you create a user account called `endeca` that has the file and directory permissions to access all necessary files for your application. However, you can use any user that you prefer, as long as it meets these requirements.

To create the user `endeca`:

1. Ensure that you have administrator privileges on the local machine.
2. From the Windows Control Panel, select **Computer Management>Administrative Tools**.
3. In the tree pane of the Computer Management window, select **System Tools>Local Users and Groups**.
4. Right-click **Users** and select **New User**.
5. In the **New User** dialog box, do the following:
 - (a) Enter `endeca` for both the User name and the Full name.
 - (b) Optionally, enter a description.
 - (c) Set a password for user `endeca`.



Note: The user must have a non-blank password, because the installer will not accept a blank password for the services user.

- (d) Uncheck **User must change password at next logon**.
6. Click **Create** to create the new user, and then **Close** to exit the dialog box.
 7. Close the Computer Management window, but do not exit Administrative Tools.
 8. From Administrative Tools, do the following:
 - (a) Open **Local Security Policy**.
 - (b) In the Local Security Settings window, select **Local Policies>User Rights Assignments**.
 - (c) From the list of policies on the right, open **Log on as a Service**.
 - (d) Add user `endeca` to the list of users that can register a process as a service.
 - (e) Close the dialog box and exit Administrative Tools.

Installing IAS on Windows

The installation process is made up of two steps: extracting a ZIP to put the IAS files on disk and then running an IAS installation script to deploy IAS. The script prompts you to select a server type to host IAS. If you select Jetty Web server, the script then gathers environment and user information and then creates and starts the Endeca IAS Service. If you select WebLogic Server, the script creates, deploys, and starts an IAS application running in WebLogic Server.

Before installing, ensure that you have met the following pre-requisites:

- If you are installing on Jetty, ensure you have administrator privileges on the local machine.

To install IAS on Windows:

1. In your local environment, locate the Endeca IAS software that you downloaded from the Oracle Software Delivery Cloud.
2. Extract the ZIP file to C:\.

This creates the IAS files on disk at C:\Oracle\Endeca\IAS.
3. Open a command prompt window and change to C:\Oracle\Endeca\IAS*<version>*\bin.
4. Run the `ias-setup.bat` script.

5. Select a server type to host the IAS installation:

- Type 1 to install IAS into WebLogic Server and press Enter.
- Type 2 to install IAS into Jetty Web server and press Enter.

6. If you selected 1 for WebLogic Server:

- (a) Specify the WebLogic home location or accept the default home location of C:\Oracle\Middleware\wlserver_10.3 by pressing Enter.
- (b) Specify a WebLogic domain name for IAS. Oracle recommends specifying `ias`.
- (c) Specify a username for the domain.
- (d) Specify a password for the domain and confirm the password.

(e) Specify a port for the WebLogic domain or accept the default of 8401 by pressing Enter.

(f) Specify the fully qualified hostname that runs IAS or accept the default by pressing Enter.

The IAS installation script creates the WebLogic domain with the username and password you specified, deploys IAS as an application into the domain, and then restarts the domain.

7. If you selected 2 for Jetty:

- (a) Specify a domain and username to run the Endeca IAS Service and press Enter.

This is typically the `endeca` that you created previously, but can be any user that has the file and directory permissions to access all necessary files for your application.

(b) Specify the password for the user.

(c) Confirm the password for the user.

(d) Specify a port for the Endeca IAS Service, or accept the default of 8401 by pressing Enter

(e) Specify a shutdown port for the Endeca IAS Service, or accept the default of 8403 by pressing Enter.

(f) Specify the fully qualified hostname that runs IAS, or accept the default by pressing Enter.

The Endeca IAS Service is registered and started.

You can confirm that IAS is running by starting a Web browser and loading the IAS Server WSDL.

If you installed IAS into Jetty Web Server, open `http://<hostname>:8401/ias/?wsdl`, or if you installed into WebLogic Server, open `http://<hostname>:8401/ias-server/ias/?wsdl`.

The following WSDL displays:

```
<?xml version="1.0" encoding="UTF-8" ?>
- <wsdl:definitions name="IasCrawlerService" targetNamespace="http://endeca.com/eidi/ias/2011-12" xmlns:ns1="http://schemas.xmlsoap.org/soap/http" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" xmlns:tns="http://endeca.com/eidi/ias/2011-12" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
- <wsdl:types>
```

...

Installing IAS silently on Windows

IAS provides a silent installation mode that is useful if you want to add the IAS installation to a general Endeca installation script, or install IAS on multiple machines using a scripted approach.

The silent installer is not interactive. You run the installation script and provide a text file as input. The text file contains response values to the installation prompts that would normally be answered by a user.

The file must contain a single row that specifies a response value for each IAS installation prompt. The response values vary depending on whether you are installing IAS into WebLogic Server or Jetty.

The order of prompts to install IAS into WebLogic Server is the following:

```
Installation mode
Weblogic home
IAS domain name
IAS domain user
IAS domain password
IAS domain port
IAS host
```

For example, here are the contents of a text file with response values that correspond to the WebLogic Server prompts:

```
1
C:\Oracle\Middleware\wlserver_10.3
ias
weblogic
weblogic123
8401
mymachinename.companydomain.com
```

The order of prompts to install IAS into Jetty is the following:

```
Installation mode
Endeca IAS Service username
Endeca IAS Service user password
IAS port
IAS shutdown port
IAS host name
```

For example, here are the contents of a text file with response values that correspond to the Jetty prompts:

```
2
TEST\endeca
Password01
8401
8403
mymachinename.companydomain.com
```

To Install IAS silently on Windows machines:

1. Start a text editor and create a .txt file with response values as described above.
2. Save the .txt file to <install path>\IAS\<version>\bin.
For example, save the file as `silent.txt`.
3. Open a command prompt and change to the location of the installation script at <install path>\IAS\<version>\bin.

4. Run the `ias-setup.bat` with the `--silent` flag, any optional arguments, and also specify the response file as an input.

For example:

```
ias-setup.bat --silent < silent.txt
```

Following installation, the WebLogic domain for IAS is restarted, and on Jetty, the Endeca IAS Service starts automatically.

Installing on UNIX

This section describes how to install the Integrator Acquisition System on UNIX.

[Installing IAS on UNIX](#)

[Adding the Endeca IAS Service to inittab on UNIX](#)

[Installing IAS silently on UNIX](#)

Installing IAS on UNIX

The IAS software is distributed as a ZIP file that contains an installation script for UNIX platforms. You extract the ZIP file and run the script to install IAS. IAS can be installed to any location, but this procedure assumes IAS will be installed into `/usr/local`. IAS unpacks to approximately 400 MB. Because multiple versions may be installed, a destination in a large partition is recommended. Differences between WebLogic Server and Jetty installations are called out in each step.

To install IAS on UNIX:

1. Locate the installation file that you downloaded from the Oracle Software Delivery Cloud.
2. Extract the ZIP file to a temporary directory.

The ZIP file contains an installation script named `EID_<version>_IAS.sh`.

3. Open a command prompt, change to the temporary directory, and run the installation script with the following command:

```
./EID_310_IAS.sh --target /usr/local
```

The script prompts you for a number of configuration options.

4. Select a server type to host the IAS installation:
 - Type 1 to install IAS into WebLogic Server and press Enter.
 - Type 2 to install IAS into Jetty Web server and servlet container and press Enter.
5. If you selected 1 for WebLogic Server:
 - (a) Specify the WebLogic home location.
For example, this is typically `/usr/local/Oracle/Middleware/wlserver_10.3`.
 - (b) Specify a WebLogic domain name for IAS. Oracle recommends specifying `ias`.
 - (c) Specify a username for the domain name.
 - (d) Specify a password for the domain name.
 - (e) Specify a port for the WebLogic domain, or accept the default of 8401 by pressing Enter.

(f) Specify the fully qualified hostname that runs IAS, or accept the default by pressing Enter.

The IAS installation script creates the WebLogic domain with the username and password you specified, deploys IAS as an application into the domain, and then restarts the domain.

6. If you selected 2 for Jetty:

(a) Specify a port for the Endeca IAS Service, or accept the default of 8401 by pressing Enter

(b) Specify a shutdown port for the Endeca IAS Service, or accept the default of 8403 by pressing Enter.

(c) Specify the fully qualified hostname that runs IAS, or accept the default by pressing Enter.

To start the Endeca IAS Service after installation, navigate to `/usr/local/Oracle/Endeca/IAS/<version>/bin` and run `ias-service.sh`.

You can confirm that IAS is running by starting a Web browser and loading the IAS Server WSDL.

If you installed IAS into Jetty Web Server, open `http://<hostname>:8401/ias/?wsdl`, or if you installed into WebLogic Server, open `http://<hostname>:8401/ias-server/ias/?wsdl`.

The following WSDL displays:

```
<?xml version="1.0" encoding="UTF-8" ?>
- <wsdl:definitions name="IasCrawlerService" targetNamespace="http://endeca.com/eidi/ias
/2011-12" xmlns:ns1="http://schemas.xmlsoap.org/soap/http" xmlns:soap="http://schemas.xmlsoap.org
/wsdl/soap/" xmlns:tns="http://endeca.com/eidi/ias/2011-12" xmlns:wsdl="http://schemas.xmlsoap.org
/wsdl/" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
- <wsdl:types>
...
```

Adding the Endeca IAS Service to inittab on UNIX

This topic applies only to IAS installations on Jetty Web server. You can skip this topic if you install IAS on WebLogic Server. In a UNIX development environment, the Endeca IAS Service can be started from the command line. In a UNIX production environment, however, Oracle recommends starting it from `inittab`.

In UNIX you run the IAS Server using `ias-service.sh`, located in `usr/local/Oracle/Endeca/IAS/<version>/bin`. You can write a script that calls `ias-service.sh` and is referenced in `inittab`.

When writing your script, Oracle recommends that you run the Endeca IAS Service as a user other than root.

This sample script (named `start_ias_service.sh`) sets the `ENDECA_USER` variable to the “endeca” user and then issues an `su` command to change to the “endeca” user:

```
#!/bin/sh
ENDECA_USER=endeca
IAS_ROOT=/usr/local/Oracle/Endeca/IAS/3.1.0
IAS_WORKSPACE=/usr/local/Oracle/Endeca/IAS/workspace

# change to user endeca
su $ENDECA_USER -c "cd $IAS_ROOT/bin; \
    $IAS_ROOT/bin/ias-service.sh >> $IAS_WORKSPACE/logs/ias-service-wrapper.log 2>&1"
```

The `start_ias_service.sh` script is then referenced in `inittab` with an entry similar to this example:

```
eias:2345:respawn:/usr/local/Oracle/Endeca/IAS/3.1.0/bin/start_ias_service.sh
```

When writing your startup script, keep in mind that it is server-specific, and therefore its details (such as paths and user names) depend on the configuration of your server.

Installing IAS silently on UNIX

IAS provides a silent installation mode that is useful if you want to add the IAS installation to a general Endeca installation script, or install IAS on multiple machines using a scripted approach.

The silent installer is not interactive. You run the installation script and provide a text file as input. The text file contains response values to the installation prompts that would normally be answered by a user.

The file must contain a single row that specifies a response value for each IAS installation prompt. The response values vary depending on whether you are installing IAS into WebLogic Server or Jetty.

The order of prompts to install IAS into WebLogic Server is the following:

```
Installation mode
Weblogic home
IAS domain name
IAS domain user
IAS domain password
IAS domain port
IAS host
```

For example, here are the contents of a text file with response values that correspond to the WebLogic Server prompts:

```
1
/usr/local/Oracle/Middleware/wlserver_10.3
ias
weblogic
weblogic123
8401
mymachinename.companydomain.com
```

The order of prompts to install IAS into Jetty is the following:

```
Installation mode
IAS port
IAS shutdown port
IAS host name
```

For example, here are the contents of a text file with response values that correspond to the Jetty prompts:

```
2
8401
8403
mymachinename.companydomain.com
```

To install IAS silently on UNIX machines:

1. Start a text editor and create a .txt file with response values as described above.
2. Save the .txt file to <install path>/IAS/<version>/bin.
For example, save the file as `silent.txt`.
3. Open a command prompt and change to the location of the installation script at <install path>/IAS/<version>/bin.
4. Run the install script with the `--silent` flag, the `--target` flag (which specifies the absolute path of the target installation directory), any optional arguments, and the response file as an input.

For example:

```
./EID_3.1.0_IAS.sh --silent --target /usr/local < silent.txt
```


After installation, the WebLogic domain for IAS is restarted automatically. In Jetty installations, you start IAS by changing to `/usr/local/Oracle/Endeca/IAS/<version>/bin` and running `ias-service.sh`.

Web Crawler installation

The Endeca Web Crawler is installed as part of IAS.

The Web Crawler startup script is in `IAS\<version>\bin` (and in the equivalent path on UNIX). The Web Crawler configuration files are in `IAS\workspace\conf\web-crawler` (and in the equivalent path on UNIX). See the *Integrator Acquisition System Web Crawler Guide* for details and usage.

Package contents and directory structure

The IAS directory is the root directory for the Integrator Acquisition System.

After installing the Integrator Acquisition System, you see this directory structure:

```
IAS
 3.1.0
   bin
   ...
 workspace
```

The contents of the IAS directory are described here in detail.

Directory	Contents
<version>\bin	<ul style="list-style-type: none"> • Scripts to start the IAS Service on Jetty (<code>ias-service.sh</code> and <code>ias-service.bat</code>). • Scripts to shut down the IAS Service on Jetty (<code>ias-service-shutdown.sh</code> and <code>ias-service-shutdown.bat</code>). • Scripts to run the IAS Server Command-line Utility (<code>ias-cmd.sh</code> and <code>ias-cmd.bat</code>). • Scripts to run the Component Instance Manager Command-line Utility (<code>component-manager-cmd.sh</code> and <code>component-manager-cmd.bat</code>). • Scripts to run the Record Store Command-line Utility (<code>recordstore-cmd.sh</code> and <code>recordstore-cmd.bat</code>). • Scripts to run the Web Crawler (<code>web-crawler.sh</code> for and <code>web-crawler.bat</code>). • Executable to run the IAS Service as a Windows service on Jetty (<code>ias-service-wrapper.exe</code>).

Directory	Contents
<version>\doc	The reference documentation (Javadoc) for the IAS Server, the Component Instance Manager, the Record Store, the IAS Extension API, and the Web Crawler.
<version>\doc\wsdl	The Web Service (WSDL) files for the IAS Server, the Component Instance Manager, and the Record Store.
<version>\java	The JDK used to run the IAS components.
<version>\lib	<ul style="list-style-type: none"> • Libraries for the IAS command-line utilities including: the IAS Server utility, the Component Instance Manager utility, the Record Store utility. • Libraries for the IAS APIs including: the IAS Server API, the Component Instance Manager API, the Record Store API, and the IAS Extension API.
<version>\lib\ias-server-plugins	Libraries for IAS plugins and custom extensions (if applicable).
<version>\lib\oit-sx	The IAS Document Conversion Module libraries.
<version>\lib\web-crawler	The Web Crawler libraries.
<version>\sample	Directories for the sample applications and sample extensions. The sample applications are documented in the <i>IAS Developer's Guide</i> and also in the <i>IAS Extension API Guide</i> .
<version>\webapps\jetty	The root.war file, which is the IAS Server and Component Instance Manager as a standalone application.
<version>\webapps\weblogic	<ul style="list-style-type: none"> • The ias.war file, which is the IAS Server and Component Instance Manager as a WebLogic application. • The Plan.xml file, which is the WebLogic deployment plan for security configuration.
<version>\workspace_template	The template for the workspace directory that contains configuration files.
workspace	The working directory for the IAS Server and the Web Crawler.

Directory	Contents
workspace\conf	<ul style="list-style-type: none"> • The <code>commandline.properties</code> file, which contains the IAS Service settings necessary for the IAS command-line utilities to run. • Three logging configuration files (<code>ias-service.log4j.properties</code> for the IAS Service, <code>recordstore-cmd.log4j.properties</code> for the Record Store, and <code>ias-cmd.log4j.properties</code> for the Command-line Utility). • The Jetty configuration files.
workspace\conf\web-crawler\default	The default configuration files for the Web Crawler, including the <code>log4j.properties</code> logging configuration file.
workspace\conf\web-crawler\non-polite-crawl	Sample crawl configuration files for non-polite crawls. As with the polite version, the settings in these files will override the default settings.
workspace\conf\web-crawler\polite-crawl	Sample crawl configuration files for polite crawls. The settings in <code>site.xml</code> will override the same property settings in the <code>default.xml</code> file, while the <code>crawl-urlfilter.txt</code> file will also override the default version of the file.
workspace\logs	The <code>ias-service.log</code> file, which contains the IAS Service log output, and includes log messages from all crawls managed by the IAS Server.
workspace\output	Default destination directory for the crawl output from the Web Crawler. The <code>output</code> directory is not present upon installation. It is created when the Web Crawler writes to output records for a crawl.
workspace\state	State files for the IAS Service components. State files can include Record Store instances, state directories for data source extension information, and state directories for manipulator extension information.



Note: There is no `logs` directory for the Web Crawler, because by default the Web Crawler sends its standard output to the console. However, you can modify the `log4j.properties` file to send the output to a file.



Chapter 3

Uninstalling the Integrator Acquisition System

This section describes how to uninstall the Integrator Acquisition System.

[Uninstalling IAS on Windows](#)

[Uninstalling IAS on UNIX](#)

Uninstalling IAS on Windows

To uninstall on Windows, you first back up the `workspace` directory, then follow the appropriate uninstall process.

Before uninstalling, ensure that you have met the following prerequisites:

- If you are uninstalling on Jetty, ensure you have administrator privileges on the local machine.

To uninstall IAS from a Windows machine:

1. From Windows Explorer, copy the `<install path>\IAS\workspace` directory to a backup location that is outside the IAS installation directory.
(You might use this content later in migration scenarios.)
2. For IAS installations on Jetty Web server:
 - (a) From Windows Services console, stop the Endeca IAS Service.
 - (b) Open a command prompt window and change to `<install path>\IAS<version>\bin`.
 - (c) Run `uninstall-ias-service.bat` to remove the Endeca IAS Service.

If you leave the Windows Services console open after removing the Endeca IAS Service, it does not update to show that the service has been removed until you close and re-open it.

3. For IAS installations on WebLogic Server:
 - (a) Stop the IAS application from either the Weblogic Administration Console or by navigating to `<IAS domain path>\bin` and running `stopWeblogic`
 - (b) Remove the WebLogic domain for the IAS application. For details, see the WebLogic documentation.
4. From Windows Explorer, navigate to the Endeca installation directory and delete the `IAS` directory.
For example, this is typically located at `C:\Oracle\Endeca`.

Uninstalling IAS on UNIX

The Integrator Acquisition System must be manually uninstalled.

To uninstall IAS from a UNIX machine:

1. Stop IAS.
 - For IAS installations on Jetty Web server: open a command prompt, navigate to `<install path>/IAS/<version>/bin`, and run `ias-service-shutdown.sh`.
 - For IAS installations on WebLogic Server: stop the WebLogic Server using either the Weblogic Administration Console or by navigating to `<domain path>/bin` and running `stopWeblogic.sh`.
2. Copy the `<install path>/IAS/workspace` directory to a backup location that is outside the IAS installation directory.
(You might use this content later in migration scenarios.)
3. In a command prompt, issue an `rm` command as in this example:

```
rm -rf Oracle/Endeca/IAS
```
4. For IAS installations on WebLogic Server, remove the WebLogic domain for the IAS application. For details, see the WebLogic documentation.

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