Oracle® Enterprise Data Quality
Installation Guide
11g Release 1 (11.1.1.9)
E55994-01

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Preface

This document describes how to install Oracle Enterprise Data Quality on Linux, UNIX, and Windows platforms.

Audience

This document is intended for system administrators or application developers who are installing Oracle Enterprise Data Quality. It is assumed that you have a basic understanding of application server and web technology and have a general understanding of Linux, UNIX, and Windows platforms. Throughout this guide, it is assumed that you are fully familiar with the components of the supported platform on which you want to install Oracle Enterprise Data Quality.

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Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Related Documents

For more information, see the following documents in the Oracle Enterprise Data Quality documentation set:

- Oracle Enterprise Data Quality Release Notes 11g Release 1 (11.1.1.9)
- Oracle Enterprise Data Quality Architecture Guide 11g Release 1 (11.1.1.9)

See the latest version of this and all documents in the Oracle Enterprise Data Quality Documentation website at http://download.oracle.com/docs/cd/E48549_01/index.htm

See the latest version of the Oracle Database documents in the Oracle Database Documentation Library website at http://www.oracle.com/pls/db112/homepage
See the latest version of the Oracle WebLogic Server 11g Release documents in the Oracle WebLogic Server Documentation Library website at http://docs.oracle.com/cd/E23943_01/wls.htm

Conventions

The following text conventions are used in this document:

<table>
<thead>
<tr>
<th>Convention</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>boldface</strong></td>
<td>Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.</td>
</tr>
<tr>
<td><em>italic</em></td>
<td>Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.</td>
</tr>
<tr>
<td>monospace</td>
<td>Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.</td>
</tr>
</tbody>
</table>
This chapter describes the compatible platform combinations that you can install Oracle Enterprise Data Quality (EDQ) on and includes the installation roadmap.

1.1 Overview

EDQ provides a comprehensive data quality management environment, used to understand, improve, protect and govern data quality. The software facilitates best practice master data management, data integration, business intelligence, and data migration initiatives, as well as, providing integrated data quality in customer relationship management (CRM) and other applications.

EDQ is a Java Web Application using a Java Servlet Engine, a Java Web Start graphical user interface and a Structured Query Language (SQL) relational database management system (RDBMS) system for data storage.

1.1.1 The EDQ Platform

EDQ requires a platform including the following components:

- An operating system,
- a Java Application Server, and
- a structured query language (SQL) relational database management system (RDBMS) system containing two schemas.

Installation of some platform components is a prerequisite to installing EDQ on any of the supported platforms. If you want to install and run EDQ on a custom platform, you must have the appropriate expertise to install and maintain the selected components.

1.2 Installation Roadmap

Table 1–1 describes the high-level tasks that are required to install EDQ.
Table 1–1  EDQ Product Installation Procedure Tasks

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 1 - Complete the installation planning requirements</td>
<td>Ensure that your system environment meets the requirements for the installation. Also, determine your Oracle Middleware home directory, product installation home directories. There are several application server and database combinations that you can choose from to install.</td>
<td>For installation requirements, see Section 2.2, “Installation Prerequisites.” For information about installation home directories, see Section 2.1, “Selecting Directories for Installation.” For information about installation modes, see Section 2.2.2, “Choosing an Installation Combination.”</td>
</tr>
<tr>
<td>Step 2 - Install the prerequisite software.</td>
<td>Download and install the correct software prerequisites for your operating system and system processor.</td>
<td>For instructions, see Section 2.2.4, &quot;Installing the Java Development Kit&quot;, Section 2.2.5, &quot;Installing the Application Server&quot;, and Section 2.2.6, &quot;Installing the Database.&quot;</td>
</tr>
<tr>
<td>Step 3 - Obtain the generic installation file for your platform</td>
<td>The software is downloaded from the Oracle Software Delivery Cloud website.</td>
<td>For information about how to download the software, see Section 2.3, &quot;Product Distribution.&quot;</td>
</tr>
<tr>
<td>Step 4 - Configure your database.</td>
<td>Create the database repository and schemas.</td>
<td>For instructions, see Section 3.1, &quot;Configuring an Oracle Database&quot; or Section 3.2, &quot;Configuring a PostgreSQL Database.&quot;</td>
</tr>
<tr>
<td>Step 5 - Install the software.</td>
<td>Run the EDQ Oracle Universal Installer (OUI) installation program. You have the option to create a detailed installation log upon completion.</td>
<td>For installation instructions, see Section 4.1, &quot;Starting the Installer On Linux and UNIX&quot; or Section 4.2, &quot;Starting the Installer On Windows.&quot;</td>
</tr>
<tr>
<td>Step 6 - Configure EDQ</td>
<td>Configure EDQ on your application server then configure various EDQ product options.</td>
<td>For instructions see, Section 5.2, &quot;Configuring EDQ on WebLogic Server,” or Section 5.3, “Configuring EDQ on Tomcat or WebSphere.”</td>
</tr>
<tr>
<td>Step 7 - Get Started</td>
<td>Get started using EDQ.</td>
<td>For log in and basic use information, see Section 6, “Getting Started with EDQ.”</td>
</tr>
<tr>
<td>(Optional)</td>
<td>Upgrade EDQ.</td>
<td>For instructions, see Section 7, “Upgrading EDQ.”</td>
</tr>
</tbody>
</table>
This chapter describes how to plan and prepare to install EDQ and presents information that you should consider and be familiar with before you begin the installation, including the following:

- Section 2.1, "Selecting Directories for Installation"
- Section 2.2, "Installation Prerequisites"
- Section 2.3, "Product Distribution"

2.1 Selecting Directories for Installation

During the installation process, you must specify locations for one or more of the following home directories:

- Oracle Fusion Middleware
- EDQ

Once installed, additional directories and files are located in the Oracle Fusion Middleware home directory for Fusion Middleware products, such as EDQ and WebLogic Server.

2.1.1 Choosing a Fusion Middleware Home Directory

The Fusion Middleware home directory serves as a repository for common files that are used by multiple Fusion Middleware products installed on the same machine. For this reason, the Middleware home directory can be considered a central support directory for all the Fusion Middleware products installed on your system.

The files in the Middleware home directory are essential to ensuring that Fusion Middleware products operate correctly on your system. They facilitate checking of cross-product dependencies during installation. The directories in the Middleware home directory vary depending on the installer that you are using and the products you selected for installation.

The default installation directory for the Middleware home directory is:

On Linux and UNIX: /opt/Oracle/Middleware/

On Windows: C:\Oracle\Middleware\

The Middleware home directory is referenced as MW_HOME in Fusion Middleware documentation and this guide.
2.1.2 Choosing the EDQ Installation Directory

When you are installing EDQ, you are prompted to choose an existing $MW_HOME$ directory or specify a path to create a new one. If you choose to create a new directory, the installation program automatically creates it for you.

You are then prompted to enter a home directory for EDQ. This home directory contains the components necessary to installing and configuring the product. The default installation directory for EDQ is:

On Linux and UNIX: $MW_HOME$/Oracle_EDQ1

On Windows: $MW_HOME\Oracle_EDQ1$

This directory path is referenced as the $EDQ_HOME$ directory in this document.

2.2 Installation Prerequisites

The following sections describe the installation prerequisites:

- Section 2.2.1, "Hardware and Software Requirements"
- Section 2.2.2, "Choosing an Installation Combination"
- Section 2.2.3, "Choosing User Accounts"
- Section 2.2.4, "Installing the Java Development Kit"
- Section 2.2.5, "Installing the Application Server"
- Section 2.2.6, "Installing the Database"
- Section 2.2.6.1.1, "Installing Repository Creation Utility"

2.2.1 Hardware and Software Requirements

You must ensure that the following hardware and software requirements are observed. These requirements represent the certified and supported server configurations.

Depending on the tasks that EDQ is required to perform, it can place heavy demands on the hardware used to run it. A recommended minimum hardware specification for an EDQ server is:

- 16GB physical memory, with 8GB allocated to the EDQ Java Virtual Machine (JVM)
- At least 4 logical CPUs
- At least 500GB of hard disk space on the database server

In order to allow the flexible use of EDQ to meet use cases, ensure that the EDQ Results Database has enough space for at least 20 times the volume of the data it is working with.

The preceding recommendations do not represent sizing advice for any specific deployment, where it may be appropriate to deploy a considerably larger machine or many machines, depending on the processing needs placed on EDQ.

Review the list of certified platforms and releases for EDQ prior to installation, see Oracle Enterprise Data Quality Certification Matrix at

Locate Oracle Enterprise Data Quality in the Product Area column and then click the System Requirements and Supported Platforms for Oracle Enterprise Data Quality (11.1.1.7.N) Certification Matrix (xls) link.

2.2.1 UNIX System Resource Limits
On UNIX systems, the operating system is configured with a default ulimit value (use the `ulimit -a` command to view the value). Depending on how you installed and configured UNIX, you may find that your application server user is unable to create files larger than 1 GB. This restricts your ability to work with large data sets if you are using files to transfer data. In this case, the hard ulimit on file size may need to be removed for your application server user.

2.2.2 Virtual Hardware
You can install EDQ on virtualized systems using a virtualization tool, such as Oracle VM Server. Both the virtual system and the physical system it is deployed on must fulfill the minimum hardware requirements.

If load balancing software is used to deploy multiple virtual systems onto a single physical system, care must be taken to ensure that the load balancing software is carefully tuned. In general, EDQ imposes a load similar to an extract, transform and load tool or data warehousing software. Between batches, very little load is imposed on the system. When processing a batch of data, EDQ rapidly drives hardware to be CPU or I/O bound. Unless the virtualized load balancing is correctly configured suboptimal performance results.

2.2.2 Choosing an Installation Combination
You can choose to install one the following combinations ensuring that it is supported on your installed operating system (see Section 2.2.1, "Hardware and Software Requirements"):

<table>
<thead>
<tr>
<th>Application Server</th>
<th>Database</th>
</tr>
</thead>
<tbody>
<tr>
<td>WebLogic</td>
<td>Oracle</td>
</tr>
<tr>
<td>WebSphere</td>
<td>Oracle</td>
</tr>
<tr>
<td>WebSphere</td>
<td>PostgreSQL</td>
</tr>
<tr>
<td>Tomcat</td>
<td>Oracle</td>
</tr>
<tr>
<td>Tomcat</td>
<td>PostgreSQL</td>
</tr>
</tbody>
</table>

2.2.3 Choosing User Accounts
An operating system user account is used to install and upgrade EDQ on your servers. This user must have full permissions (read, write and execute) to the directories that will contain the EDQ installation files, target installation directory, and all database directories; it is applicable to all operating systems. This operating system user account is referred to as the EDQ installation user in this document.

The EDQ installation user is used to install your application server and database.

Note:  When installing on UNIX or Linux operating systems, do not use the root user as your EDQ installation user account.
For Tomcat and WebSphere, an application server user is necessary to create EDQ user accounts, tables, and schemas. For WebLogic, a user is automatically created for your EDQ domain when you run the WebLogic Configuration Wizard and is used to administer your EDQ domain and to log into the EDQ application.

Similarly, a database administrator user account that has the privileges to access the database and ability to create schemas and run the database product is necessary. This database administrator user account is used during the installation and configuration processes to create the database accounts specific to EDQ. This is applicable to any supported database that you want to use with EDQ.

### 2.2.4 Installing the Java Development Kit

You must install a supported JDK since both the EDQ and application server products rely on it. The JDK provides the Java run-time environment (JRE) and tools for compiling and debugging Java applications.

Identify the EDQ supported JDK that you want to install using the following table and the Oracle Enterprise Data Quality Certification Matrix (see Section 2.2.1, "Hardware and Software Requirements").

<table>
<thead>
<tr>
<th>If You Are Installing:</th>
<th>You must use the:</th>
</tr>
</thead>
<tbody>
<tr>
<td>WebSphere on AIX</td>
<td>IBM JDK that is bundled with WebSphere.</td>
</tr>
<tr>
<td>on HP-UX</td>
<td>the IBM JDK is the only supported JDK so it is used for all application servers.</td>
</tr>
<tr>
<td></td>
<td>the HP JDK.</td>
</tr>
</tbody>
</table>

Download and install the Oracle JDK using the instructions provided at http://www.oracle.com/technetwork/java/javase/downloads/index.html

You will be required to specify the directory into which you installed the JDK during the installation of your application server so note them. For example, the directories may be:

On Linux and UNIX: /opt/jdk1.7.0_40
On Windows: C:\Program Files\Java\jdk1.7.0_40

This directory path to your installation is referenced as the JDK_HOME directory in this document.

**Note:** On Solaris systems, you must install both the 32-bit and 64-bit JDKs in order to run java applications. Install these JDKs by following the instructions at the Oracle Java SE documentation website at http://docs.oracle.com/javase/7/docs/webnotes/install/solaries/solaris-jdk.html

### 2.2.5 Installing the Application Server

You must install one of the supported application servers, WebLogic, WebSphere, or Tomcat, see Section 2.2.1, "Hardware and Software Requirements". This section contains any information specific to the installation or configuration of these application servers.
2.2.5.1 Installing WebLogic Server
The installation instructions, including how to obtain the product, are found in the Oracle WebLogic Server Installation Guide at

http://docs.oracle.com/cd/E23943_01/wls.htm

The directory path to your installation is referenced as the WL_HOME directory in this document.

Oracle recommends the use of managed servers in your EDQ domain and that you use WebLogic Node Manager to administer the servers in your domain. For more information, see Oracle Fusion Middleware Node Manager Administrator’s Guide for Oracle WebLogic Server 11g Release 1.

2.2.5.2 Installing Tomcat
You can download the Tomcat Application Server, installation instructions, and all documentation, from the Apache Software Foundation Server web site at

http://tomcat.apache.org/

Configuring Tomcat
After you have installed Tomcat, you must ensure that you configure it to use an Oracle Java JDK (not OpenJDK). For example, JAVA_HOME="/opt/java/jdk1.7.0_25". This path variable should be set in your tomcat#.conf file to specify that it is for Tomcat; alternatively, you can add it to your setenv.sh post-installation.

---

**Note:** Oracle recommends that you configure Tomcat to start as a service.
---

2.2.5.3 Installing WebSphere
You can download the WebSphere Application Server and installation instructions from the IBM WebSphere web site at

http://www-03.ibm.com/software/products/us/en/appserv-was/

Configuring WebSphere
After you have installed WebSphere, you must create a new profile that describes your EDQ WebSphere server.

2.2.6 Installing the Database
You must install one of the supported databases, Oracle or PostgreSQL. This section contains any information specific to the installation or configuration of these databases.

2.2.6.1 Oracle Database
You can download the Oracle Database product and installation instructions from the Oracle Database Documentation web site at

http://www.oracle.com/pls/db112/

Installation and configuration considerations:

- Ensure that you select the Create and configure a database installation option.
Oracle recommends the following Oracle Database Memory Structure and tablespace configuration:

- 4GB Program Global Area (PGA)
- 4GB System Global Area (SGA)
- 20GB undo tablespace
- 20GB temp tablespace
- Separate user tablespaces for configuration and results schemas

You may need to increase the values for the `SESSIONS` and `PROCESSES` parameters. The appropriate value for these parameters depends on your Oracle Database installation and intended use of EDQ though the suggested values are:

```
SESSIONS=500
PROCESSES=500
```

If you are unsure of the appropriate settings for these parameters, or how the values should be set, see *Oracle Database Concepts 11g Release 1 (11.1)* or contact your database administrator. For more information about the integration of Oracle Database with EDQ, see *Oracle Enterprise Data Quality Architecture Guide*.

You must configure your Oracle database to use a Unicode character set to ensure that EDQ is able to capture and process data in the widest range of character sets.

If required, multiple EDQ servers may share the same Oracle Database; each server must have dedicated `Config` and `Results` schemas within the database.

### 2.2.6.1.1 Installing Repository Creation Utility

EDQ requires the existence of schemas in your installed Oracle Database prior to installation. These schemas are created and loaded in your database using the Repository Creation Utility (RCU).

*Note:* Do not use RCU when upgrading EDQ; use the instructions in Section 7, "Upgrading EDQ."

You must obtain the RCU product using the instructions found in the *Oracle Fusion Middleware Repository Creation Utility User’s Guide* at

http://docs.oracle.com/cd/E28280_01/doc.1111/e14259/toc.htm

*Note:* On Windows operating systems, make sure that you do not unzip the RCU`.zip` file to a directory name containing spaces.

The directory you unzip the product into will be referred to as the `RCU_HOME` directory in this guide.

### 2.2.6.2 PostgreSQL

You can download the PostgreSQL product and installation instructions from the PostgreSQL website at

http://www.postgresql.org/
Installation and configuration considerations:

- If you are installing on Windows, Oracle recommends that you use the graphical installer that you can download from the PostgreSQL web site at
  
  http://www.postgresql.org/download/windows/

- Allow a maximum connections of 403 by editing the `postgresql.conf` file in the PostgreSQL data directory (for example, `/var/lib/pgsql/data/postgresql.conf`).

- You must configure your PostgreSQL database to use a Unicode character set to ensure that EDQ is able to capture and process data in the widest range of character sets.

Configure your schema for installation as the EDQ repository as follows:

- Create two new PostgreSQL users, named `config` and `results`.

- Create a schema within your database, named `config` and owned by the `config` user.

- Create a second schema within your database, named `results` and owned by the `results` user.

On Linux systems, configure PostgreSQL to:

- Use password authentication by editing the `pg_hba.conf` file in the data directory PostgreSQL is installed (for example, `/var/lib/pgsql/data/pg_hba.conf`) and changing the `ident sameuser` entries to `md5`.

### 2.3 Product Distribution

The EDQ installation and configuration files are distributed by downloading the generic package installer from the Oracle Software Delivery Cloud web site as follows:

1. Enter the Oracle Software Delivery Cloud URL into a web browser:

   http://edelivery.oracle.com/

2. Click Sign-in/Register.

   **Note:** If you are not already logged in, the Oracle Single Sign-On page appears. Enter your Oracle user id and password and click Sign In.
The Terms & Restrictions page appears

3. Click the Oracle Software Delivery Cloud Trial License Agreement and the Export Restrictions check boxes, and then click **Continue**.

The Media Pack Search page appears.

4. On the Media Pack Search page, do the following:
   a. Click the Select Product Pack drop-down list and elect **E-Business Suite** (if you purchased the product from the Application Price List) or **Oracle Fusion Middleware** (if you purchased the product from the Technology Price List) from the Select a Product Pack drop-down list.
   b. Click the Platform drop-down list and select the platform on which you are installing EDQ.
   c. Click **Go**.

The Results list expands to show all available media packs that include your search criteria.

5. Locate and select **Oracle Enterprise Data Quality 11.0 Media Pack (11.1.1) (E-Business Suite Product Pack)** or **Oracle Enterprise Data Quality 11.1.1.9.# (11.1.1) Media Pack** (Oracle Fusion Middleware Product Pack) option and click **Continue**.

6. Click the **Download** button for Oracle Enterprise Data Quality 11.1.1.9.#.

7. Browse to the directory where you want to save the file then click **Save** to start the file download. A ZIP file is downloaded.

8. Extract the ZIP file to the following directory:
   - On Linux and UNIX: `/opt/edq_install`
   - On Windows: `C:\edq_install`

   The installation directory now contains the `edq` directory. The installers are in the `edq/Disk1/` directory. You have all of the files necessary to install EDQ though additional software may be required as described in the following section.

### 2.4 Next Step

Go to Section 3, "Configuring Your EDQ Database Schemas" to continue with the installation.
This chapter describes how to create and configure your EDQ database schemas. Use one of the following sections to configure your database:

- Section 3.1, "Configuring an Oracle Database"
- Section 3.2, "Configuring a PostgreSQL Database"

### 3.1 Configuring an Oracle Database
To use an Oracle Database with EDQ, you must create the necessary database repository and schema using the following sections.

**Note:** Do not use RCU when upgrading EDQ; use the instructions in Section 7, "Upgrading EDQ."

#### 3.1.1 Starting RCU On Linux and UNIX
To start the RCU program on a Linux or UNIX system using a .sh installation file, follow these steps:

1. Log in to the target system as your EDQ installation user. See Section 2.2.3, "Choosing User Accounts".
2. Go to the RCU_HOME/bin directory.

**Note:** Ensure that all files in the directory have executable permissions for the user you logged in with before continuing.

3. Start the installation by entering the following command:
   ```bash
cu
   
   The RCU program is displayed.
   ```
4. Go to Section 3.1.3, "Completing the RCU Configuration" and complete the installation.

#### 3.1.2 Starting RCU On Windows
To start the RCU program on a Windows platform, follow these steps:

1. Log in to the target Windows system as your EDQ installation user. See Section 2.2.3, "Choosing User Accounts".
2. Locate the MS-DOS Command Prompt (cmd.exe), and then double-click on it.
3. Go to the RCU_HOME\bin directory.
4. Start the installation by entering the following command:
   `rcu.bat`
   The RCU program is displayed.
5. Go to Section 3.1.3, "Completing the RCU Configuration" and complete the installation.

### 3.1.3 Completing the RCU Configuration

Complete the RCU configuration using the instructions in Table 3–1, "Running the RCU Program"; some screens are displayed only in certain situations, as noted in the table.

To create the EDQ schemas, you must have one of the following privileges:

- **SYSDBA**
- DBA role (to be able to create normal tables) plus the privileges needed to create the AQ tables, for example the 'MANAGE_ANY' system privilege

To view any of the installation screens, see Section A.1, "RCU Screens."

#### Table 3–1 Running the RCU Program

<table>
<thead>
<tr>
<th>Screen</th>
<th>Instructions and Action Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welcome</td>
<td>Click <strong>Next</strong> to proceed with the installation. You may cancel the installation at any time by clicking <strong>Exit</strong>.</td>
</tr>
<tr>
<td>Create Repository</td>
<td>Click <strong>Next</strong> to continue. This uses the default Create option.</td>
</tr>
<tr>
<td>Database Connection Details</td>
<td>Specify the host name where your Oracle database is running. Enter the port number for your database; the default port number is 1521. Specify the service name for the database. Typically, the service name is the same as the global database name. For example, oracle.example.com. Enter the user name for your database; the default user name is SYS. Enter the password for your database user. Select <strong>SYSDBA</strong> from the Role: list; this is automatically selected when the user is SYS. Click <strong>Next</strong> to continue.</td>
</tr>
<tr>
<td>Checking Global Prerequisites</td>
<td>When the prerequisites checking progress has reached completion, click <strong>OK</strong> to continue.</td>
</tr>
<tr>
<td>Select Components</td>
<td>Select the <strong>Oracle Enterprise Data Quality</strong>, <strong>EDQ Config Repository</strong>, and <strong>EDQ Results Repository</strong> check boxes. You can select other check boxes as required if you want to install any optional components. For example, if you intend to use WebLogic Policy Manager, then you may need to select additional corresponding schemas like Metadata Services. If you intend to install Oracle Platform Security Services for Audit, then you need the Audit Services schema. Click <strong>Next</strong> to continue.</td>
</tr>
</tbody>
</table>
### 3.2 Configuring a PostgreSQL Database

To use a PostgreSQL Database with EDQ, you must ensure that database listening is turned on, create the necessary database repository, and schema using the following sections.

#### 3.2.1 Starting PostgreSQL and Checking Local Connections On Linux and UNIX

To start the PostgreSQL program on a Linux or UNIX system and check that the local connections are properly configured, follow these steps:

1. Log in to the target system as your database user. See Section 2.2.3, "Choosing User Accounts".
2. Ensure your database server is running. For more information, see the PostgreSQL web site at [http://www.postgresql.org/docs/9.1/static/server-start.html](http://www.postgresql.org/docs/9.1/static/server-start.html)
3. Go to the PostgreSQL data directory. For example, `/var/lib/pgsql/data`.
4. Examine the `pg_hba.conf` file by entering the following command:
   
   ```
   tail pg_hba.conf
   ```
   
   The file contents are displayed and the following is an excerpt:
   
   ```
   # TYPE  DATABASE        USER            ADDRESS                 METHOD
   # "local" is for Unix domain socket connections only
   local all all all ident
   # IPv4 local connections:
   host all all 127.0.0.1/32 md5
   # IPv6 local connections:
   host all all ::1/128 md5
   ```

5. Ensure that the IPv4 and IPv6 local connections are configured as in the code excerpt in the previous step to ensure database listening is on and that passwords are accepted for authentication.

---

**Table 3–1 (Cont.) Running the RCU Program**

<table>
<thead>
<tr>
<th>Screen</th>
<th>Instructions and Action Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Checking Component Prerequisites</td>
<td>When the prerequisites checking progress has reached completion, click <strong>OK</strong> to continue.</td>
</tr>
<tr>
<td>Schema Passwords</td>
<td>Enter the password you want to use for all database schemas in both password fields, then click <strong>Next</strong> to continue.</td>
</tr>
<tr>
<td>Map Tablespaces</td>
<td>The default EDQ tablespaces are displayed by component. You can change the tablespaces using the Manage Tablespaces button and modifying the information. Click <strong>Next</strong> to continue.</td>
</tr>
<tr>
<td>Map Tablespaces</td>
<td>Click <strong>OK</strong> to create any non-existent tablespaces in your schema, then click <strong>OK</strong> when the operation completes.</td>
</tr>
<tr>
<td>Summary</td>
<td>Review the database details then click <strong>Create</strong> to continue.</td>
</tr>
<tr>
<td>Completion Summary</td>
<td>Click <strong>Close</strong> to exit the RCU program.</td>
</tr>
</tbody>
</table>

---

**3.2 Configuring a PostgreSQL Database**

To use a PostgreSQL Database with EDQ, you must ensure that database listening is turned on, create the necessary database repository, and schema using the following sections.

---

**Completion**

Click **Close** to exit the RCU program.
6. Go to Section 3.2.3, "Configuring PostgreSQL" to complete the configuration.

3.2.2 Checking Local Connections PostgreSQL On Windows

To check that the local connections are properly configured on a Windows platform, follow these steps:

1. Log in to the target Windows system as your database user. See Section 2.2.3, "Choosing User Accounts".
2. Locate the MS-DOS Command Prompt (cmd.exe), and then double-click on it.
3. Ensure your database server is running. For more information, see the PostgreSQL web site at
   http://www.postgresql.org/docs/9.1/static/server-start.html
4. Go to the PostgreSQL data directory. For example, C:\Program Files\PostgreSQL\9.3\data.
5. Examine the pg_hba.conf file by entering the following command:
   
   TYPE pg_hba.conf
   
   The file contents are displayed and following is an excerpt:
   
   # TYPE  DATABASE        USER            ADDRESS                 METHOD
   # IPv4 local connections:
   host    all             all             127.0.0.1/32            md5
   # IPv6 local connections:
   host    all             all             ::1/128                 md5

6. Ensure that the IPv4 and IPv6 local connections are configured as in the code excerpt in the previous step to ensure database listening is on and that passwords are accepted for authentication.

7. Go to Section 3.2.3, "Configuring PostgreSQL" to complete the configuration.

3.2.3 Configuring PostgreSQL

This section describes how to configure remote connections, and creating the necessary EDQ users, database, and schemas.

3.2.3.1 Configuring Remote Connections

If your PostgreSQL database has been installed on a different system, then it must be configured to accept connections from other hosts. This is applicable to all PostgreSQL environments.

Configure remote database connections using these steps:

1. Locate the data directory for your PostgreSQL database.
2. Edit the postgresql.conf file.
3. Locate the following line:
   
   #listen_addresses = 'localhost'

4. Insert the following line to cause PostgreSQL to accept connections from remote hosts:
   
   listen_addresses = '*'
5. Edit the pg_hba.conf file then add the following line using \textit{addr/mask} to identify the subnet of the host running EDQ:

\texttt{host all all \textit{addr/mask} md5}

For example, \texttt{host all all 192.168.0.0/24 md5} allows connections from all hosts with the IP addresses 192.168.0.0 to 192.168.0.255 while \texttt{host all all 0.0.23.56/32 md5} accepts connections only from IP address 10.0.23.56.

3.2.3.2 Creating the EDQ Users, Database, and Schemas

\textbf{Note:} The actual tables are created post-installation using the EDQ Configuration Application in Chapter 5, "Configuring EDQ Post-Installation."

1. Run \texttt{psql} for your PostgreSQL installation.

2. Enter your PostgreSQL credentials, that you configured during installation, when prompted.

3. Create the two necessary EDQ users with the following commands changing \textit{password} to be the password you want to use for each user:

\begin{verbatim}
create user config \textit{password} 'config';
create user results \textit{password} 'results';
\end{verbatim}

4. Create your EDQ database and the config user using this command:

\begin{verbatim}
create database edq encoding 'UTF-8' owner config template template0;
\end{verbatim}

5. Create the schema using the following:

\begin{verbatim}
create schema authorization config;
create schema authorization results;
\end{verbatim}

6. Test your database configuration by logging out then back in using your new EDQ credentials.

3.3 Next Step

Go to Section 4, "Running the EDQ Installer" to continue with the installation.
This chapter describes how to install EDQ on Linux, UNIX, and Windows and includes the following topics:

- Section 4.1, "Starting the Installer On Linux and UNIX"
- Section 4.2, "Starting the Installer On Windows"
- Section 4.3, "Completing the Installation"

### 4.1 Starting the Installer On Linux and UNIX

To start the installation program on a Linux or UNIX system using a .sh installation file, follow these steps:

1. Log in to the target system as your EDQ installation user. See Section 2.2.3, "Choosing User Accounts".
2. Go to the installation directory, `/opt/edq_install/edq/Disk1`.
3. Start the installation by entering the following command:
   
   ```
   ./runInstaller -jreLoc JDK_HOME
   ```
4. Enter your `JDK_HOME` directory and press Enter.
   
   The EDQ OUI program is displayed.
5. Go to Section 4.3, "Completing the Installation" and complete the installation.

---

**Note:** Ensure that all files in the directory have executable permissions for the user you logged in with before continuing.

### 4.2 Starting the Installer On Windows

To start the installation program on a Windows platform using a .exe file, follow these steps:

1. Log in to the target Windows system as your EDQ installation user. See Section 2.2.3, "Choosing User Accounts".
2. Locate the MS-DOS Command Prompt (cmd.exe), right-click on it, and then select Run as administrator.
3. Go to the installation directory `C:\edq_install\edq\Disk1`.
4. Start the installation by entering the following command:
setup.exe -jreLoc JDK_HOME

**Note:** If your `JDK_HOME` directory contains spaces as in the default installation directory, `C:\Program Files\Java\jdk1.7.0_25`, then you must use the following directory syntax:

`C:\Program Files\Java\jdk1.7.0_25`

For more information, see Oracle Fusion Middleware Release Notes 11g Release 1 for Microsoft Windows.

The EDQ OUI program is displayed.

5. Go to Section 4.3, "Completing the Installation" and complete the installation.

### 4.3 Completing the Installation

Complete the installation using the instructions in Table 4–1, "Running the Installation Program"; some screens are displayed only in certain situations, as noted in the table.

To view any of the installation screens, see Appendix A.2, "OUI Installation Screens."

**Table 4–1 Running the Installation Program**

<table>
<thead>
<tr>
<th>Screen</th>
<th>Instructions and Action Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welcome</td>
<td>Click <strong>Next</strong> to proceed with the installation. You may cancel the installation at any time by clicking <strong>Exit</strong>.</td>
</tr>
<tr>
<td>Install Software</td>
<td>Specify any software updates to install before you install Oracle Enterprise Data Quality.</td>
</tr>
<tr>
<td>Updates</td>
<td>To get updates from My Oracle Support, you can select <strong>Search My Oracle Support for Updates</strong>, specify a user name and password, and then click <strong>Search for Updates</strong>. Before you search, you can click <strong>Proxy Settings</strong> to change the settings for the proxy server and <strong>Test Connection</strong> to test the credentials. To get updates that you have saved to your computer, you can select <strong>Search Local Directory for Updates</strong>, specify a directory, and then click <strong>Search for Updates</strong>. If you do not want to update any software, select <strong>Skip Software Updates</strong>, and then click <strong>Next</strong> to continue the installation.</td>
</tr>
<tr>
<td>Select Installation</td>
<td>Use the default <strong>Installation for WebLogic Server</strong> if this is your installed application server or select <strong>Installation for Other Platforms</strong> if your application server is Tomcat or WebSphere. Click <strong>Next</strong> to continue.</td>
</tr>
<tr>
<td>Type</td>
<td></td>
</tr>
<tr>
<td>Prerequisite Checks</td>
<td>Click <strong>Next</strong> to continue.</td>
</tr>
<tr>
<td>Installation Location</td>
<td>Specify the Middleware home directory that will serve as the central support directory for all Fusion Middleware products installed on the target system, including EDQ and WebLogic Server. Specify the home directory for EDQ where the product will be installed and used. For example, <code>Oracle_EDQ1</code>. If EDQ exists in the specified directory, you can select <strong>Yes</strong> to upgrade your existing installation or <strong>No</strong> to create another EDQ instance. Click <strong>Next</strong> to continue.</td>
</tr>
<tr>
<td>Installation Summary</td>
<td>Click <strong>Install</strong> to continue.</td>
</tr>
</tbody>
</table>
4.4 Next Step

Go to Section 5, “Configuring EDQ Post-Installation” to continue with the post-installation tasks.

<table>
<thead>
<tr>
<th>Screen</th>
<th>Instructions and Action Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Progress</td>
<td>When the installation program progress has reached 100%, click <strong>Next</strong> to continue.</td>
</tr>
<tr>
<td>Installation Complete</td>
<td>Click <strong>Finish</strong> to exit the installation program.</td>
</tr>
</tbody>
</table>
Configuring EDQ Post-Installation

This chapter describes how to set the Java Virtual Machine Parameters (JVM) for EDQ and how to configure EDQ on your application server.

Begin the post-installation configuration with Section 5.1, "Setting Java Virtual Machine Parameters for EDQ", then use one of the following sections to configure your application server:

- Section 5.2, "Configuring EDQ on WebLogic Server"
- Section 5.3, "Configuring EDQ on Tomcat or WebSphere"

5.1 Setting Java Virtual Machine Parameters for EDQ

For all application servers including WebLogic, you must set the JVM parameters as follows:

- Maximum heap memory, `-Xmx`, should normally be set to approximately 50% of available physical memory on the host server. For example, on a server with 32GB of RAM, start by setting it to 16GB with `-Xmx16384m`. Depending on the relative usage of memory between the JVM and native processing, you may need to adjust this setting.

- Maximum Permgen space should be set to 512m, `-XX:MaxPermSize=512m`, unless otherwise advised.

- Reserved Code Cache size should be set to 128m, `-XX:ReservedCodeCacheSize=128m`, unless otherwise advised.

  If you increase the `MaxPermSize` parameter value, you should increase the `ReservedCodeCacheSize` value proportionally.

- Oracle JDBC Maximum Cached Buffer Size should always be set to 0, `-Doracle.jdbc.maxCachedBufferSize=0`.

- Soft Reference Flush Interval should always be set to 1, `-XX:SoftRefLRUPolicyMSPerMB=1`.

For example, the full set of recommended JVM options for a typical server with 32GB of RAM is as follows:

```
-Xmx16384m -XX:MaxPermSize=512m -XX:ReservedCodeCacheSize=128m
-Doracle.jdbc.maxCachedBufferSize=0 -XX:SoftRefLRUPolicyMSPerMB=1
```
5.2 Configuring EDQ on WebLogic Server

Use this section to create your EDQ WebLogic domain, start your WebLogic Server, and configure WebLogic for EDQ web services.

The process in this section automatically creates and populates the following two EDQ configuration directories:

- oedq.home
- oedq.local.home

5.2.1 Starting the Configuration Wizard On Linux and UNIX

To start the installation program on a Linux or UNIX system using a .sh installation file, follow these steps:

1. Log in to the target system as your EDQ installation user. See Section 2.2.3, "Choosing User Accounts".
2. Go to your WebLogic Server installation directory. For example, MW_HOME/oracle_common/common/bin.
3. Start the wizard by entering the following command:
   ```bash```
   ./config.sh
   ```
   The WebLogic Server Configuration Wizard is displayed.
4. Go to Section 5.2.3, "Creating the EDQ Domain" and complete the configuration.

5.2.2 Starting the Configuration Wizard On Windows

To start the installation program on a Windows platform using a .exe file, follow these steps:

1. Log in to the target Windows system as your EDQ installation user. See Section 2.2.3, "Choosing User Accounts".
2. Locate the MS-DOS Command Prompt (cmd.exe), right-click on it, and then select Run as administrator.
3. Go to your WebLogic Server installation directory. For example, MW_HOME/oracle_common/common/bin.
4. Start the wizard by entering the following command:
   ```
   config.exe
   ```

Note:

On systems that are not running on the Oracle JDK, the MaxPermSize, ReservedCodeCacheSize, and SoftRefLRUPolicyMSPerMB options do not apply.

Note: For default Tomcat installations, these JVM parameters may not exist in any configuration files so you must add them to the setenv.sh file. For specific information, see the Tomcat documentation in the Apache Software Foundation Server web site at http://tomcat.apache.org/
The WebLogic Server Configuration Wizard is displayed.

5. Go to Section 5.2.3, "Creating the EDQ Domain" and complete the configuration.

### 5.2.3 Creating the EDQ Domain

Use Table 5–1, "Running the WebLogic Configuration Wizard" to create the EDQ domain (see Section A.3, "WebLogic Configuration Wizard Screens" to review the screens):

<table>
<thead>
<tr>
<th>Screen</th>
<th>When Does This Screen Appear</th>
<th>Instructions and Action Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configuration Wizard Welcome</td>
<td>Always</td>
<td>Click Next to proceed with the configuration and accept the Create a new WebLogic domain default. You may cancel the installation at any time by clicking Exit.</td>
</tr>
</tbody>
</table>
| Select Domain Source           | Always                        | Select the correct EDQ Domain generation option for the type of server you are installing, Oracle Enterprise Data Quality -11.1.1.9.# [Oracle_EDQ1]. The Oracle JRF - 11.1.1.0 [oracle_common] check box is automatically selected. By default, the Basic WebLogic Server Domain - 10.3.6.0 [wlserver_10_3] option is always selected. You can select any of the following options if needed in your environment:  
  - Oracle Enterprise Manager — Use for domain monitoring and control.  
  - Oracle WSL Policy Manager — Use with Oracle Web Services Manager to use global policy sets.  
  - Oracle Platform Security Services for Audit — Use the FMW auditing feature.  
  Click Next to continue. |
| Specify Domain Name and Location| Always                        | Enter a name for your domain in the Domain Name field or use the default. The default MW_HOME/user_projects/domains directory is displayed.  
  Click Next to continue. |
| Configure Administrator User Name and Password | Always | Enter your WebLogic administration user name and password credentials. See Section 2.2.3, "Choosing User Accounts".  
  Click Next to continue. |
Configure Server Start Mode and JDK

Always Select the startup operation mode for your domain from the following options:

- **Development Mode**—In this mode, the security configuration is relatively relaxed, allowing you to auto-deploy applications.

- **Production Mode**—In this mode, the security configuration is relatively stringent, requiring a username and password to deploy applications. Before putting a domain into production, familiarize yourself with procedures for securing a production environment. For more information, see *Securing a Production Environment for Oracle WebLogic Server*.

Select the 64-bit JDK that you want to use from the Available JDKs list. Oracle recommends that you use the latest 64-bit JDK.

Click Next to continue.

Configure JDBC Data Sources

Always Select the EDQConfigDS and EDQResultsDS data source check boxes and other data sources as required if you selected any optional components in previous wizard steps. The Vendor, Driver, DBMS/Service, Host Name, and Port options are automatically populated.

Enter your host name, database user credentials, and change the port if necessary.

Click Next to continue.

Test JDBC Data Sources

Always Ensure that both the EDQConfigDS and EDQResultsDS data sources test successfully. Return to the previous screen to alter the connection configuration if necessary.

Click Next to continue.

Select Optional Configuration

Always Oracle recommends using Managed Servers. Select the check box for each category (if any) for which you want to perform advanced configuration tasks.

Click Next to continue.

Configure Administration Server

Only if you selected Administration Server on the Select Optional Configuration screen Change the settings for the Administration Server as needed.

Click Next to continue.

Configure Managed Servers

Only if you selected Managed Servers, Clusters, and Machines on the Select Optional Configuration screen Add, delete, or reconfigure Managed Servers as needed.

Click Next to continue.
After you have configured your WebLogic Server, you must ensure that the `StartScriptEnabled` property in the `nodemanager.properties` file is set to `true` so that your EDQ domain is correctly configured, see *Oracle Fusion Middleware Managing Server Startup and Shutdown for Oracle WebLogic Server 11g Release 1*.

5.2.4 Starting Your WebLogic Server

You must start your EDQ WebLogic Managed Servers to complete the installation in the following two ways:

5.2.4.1 Using the WebLogic Administration Console

To start your EDQ WebLogic Managed Servers from the WebLogic Administration Console, the Node Manager must be running.

Configuration settings including the server’s JVM settings and the path to the server configuration directories for the managed server are pre-defined by the WebLogic Configuration Wizard as Server Startup Arguments. If you are starting the server using the WebLogic Administration Console, these arguments are applied, so you will only need to change them to apply different settings. For example to tune the JVM parameters to the recommended settings for your server - see Section X (Recommended JVM parameters).

For information about starting WebLogic Servers, see *Oracle Fusion Middleware Managing Server Startup and Shutdown for Oracle WebLogic Server 11g Release 1*.

5.2.4.2 Using a Startup Script

If you choose to start your EDQ WebLogic Managed Servers using a startup script, the Server Startup Arguments defined for the server in the WebLogic Administration Console are ignored so these settings must set for the domain by editing the `setDomainEnv` script.

If you have configured WebLogic Managed Servers in your domain and installed EDQ Release 11g R1 (11.1.1.7.4) and greater, then the configuration template applies changes to your EDQ domain `setDomainEnv` (.cmd on Windows and .sh on all other operating systems) script during your domain configuration in the previous section. By default, an `edq_server1` Managed Server is created that contains the default JVM settings. You may need to edit your `setDomainEnv` script so that it contains your Managed Server name (if you used a different name) and to apply the recommended JVM settings for your environment, see Section 5.2.5, "Clustering with WebLogic and Running Multiple EDQ Servers in the Same Domain."

For information about starting Managed Servers using Node Manager and Administration Servers, see *Oracle Fusion Middleware Managing Server Startup and Shutdown for Oracle WebLogic Server 11g Release 1*.
5.2.5 Clustering with WebLogic and Running Multiple EDQ Servers in the Same Domain

To support high availability scenarios, Oracle recommends that you configure a cluster of multiple EDQ servers to share the incoming load (for example, from a large number of simultaneous web service requests), and to provide continuous service in the event of failure of an individual server. This section provides some basic guidance about how to configure EDQ to support such a model using WebLogic.

Multiple EDQ managed servers can be configured to run in the same WebLogic domain either in a cluster or not provided that each server has a separate, dedicated:

- EDQCONFIG and EDQRESULTS schemas and corresponding separate JDBC data sources with different JNDI names
- configuration directories
- server listening port; each server must listen on a different port

Separate schemas can be created for further EDQ instances by re-running the RCU and using different prefixes for the schema names (for example, DEV2 and so on). The corresponding JDBC data sources for these new schemas must be created manually using the WebLogic Administration Console as described in the remainder of this section.

Multiple EDQ managed servers can either be created as part of the initial single run of the WebLogic Configuration Wizard, or manually after the fact by using the WebLogic Administration Console. Similarly, a cluster can also be created using either of these mechanisms. The JRF Template must be applied to any managed servers that have been created manually using the WebLogic Administration Console (this is equivalent to the library targeting performed automatically by the WebLogic Configuration Wizard).

Even when the WebLogic Configuration Wizard is used to create multiple EDQ managed servers, it only creates the JDBC data sources for the first server so you must always use the WebLogic Administration Console to create the additional data sources and target them at the relevant managed server. Each new data source must be given a different and unique JNDI name in order for the corresponding EDQ server to access it.

Similarly, the WebLogic Configuration Wizard only creates the configuration directories for the first EDQ server so you must manually create them for the additional servers. You do this using standard operating system commands to copy the first server's configuration directories and their contents to a different path in the file system.

---

**Note:** Only the 'local' configuration directory (by default, oedq_local_home) needs to be copied; the 'base' directory (by default, oedq_home) can be shared across all managed servers because it only contains defaults and other common configuration settings.

---

Once copied, the director.properties file in each subsequent EDQ servers new configuration directory must be edited to reflect the new JDBC data sources that you created (point to the new JNDI names). You must also assign different management, FTP, and SSHD ports since unlike the 'listen' ports, these are not defined in the managed server settings.

The final step is to use the WebLogic Administration Console to modify the managed server settings for the additional EDQ servers, to update the edq.config.path by configuring the server startup Arguments option in the Server Start tab to point to the
relevant new configuration directories. For more information, see this topic of the WebLogic Server Administration Console Online Help at

http://docs.oracle.com/cd/E23943_01/apirefs.1111/e13952/taskhelp/startstop/ConfigureStartupArgumentsForManagedServers.html

Once multiple EDQ servers have been configured in this way, you can leave them un-clustered and accessed directly using their respective Launchpad URLs using the relevant port, or setup as part of a cluster using standard WebLogic mechanisms with a separate front-end load balancer to handle incoming web service requests through a single cluster URL. Do not attempt to access the EDQ Launchpad using a load balanced cluster URL because it will be unclear which EDQ server is actually being accessed. Instead, log in to one of the servers directly using its dedicated port, and use the Director or Server Console to connect to all servers in the cluster.

5.3 Configuring EDQ on Tomcat or WebSphere

Use this section to configure EDQ on a Tomcat or WebSphere Application Server.

5.3.1 Creating the Necessary Shared Library

Create the necessary Oracle Application Development Framework (ADF) shared library necessary to EDQ:

1. Create a lib.adf ADF shared directory. For Tomcat, create this directory in your Tomcat home directory.

2. Unzip the adf-essentials.zip file, delivered with the EDQ product, into the lib.adf directory. The JAR files in this ZIP file must be in lib.adf directory, not the adf-essentials that it unzips to by default.

3. Complete the library creation:

   On Tomcat
   Configure the Tomcat common.loader property (typically located in the catalina.properties file) to load Oracle ADF and Apache HTTP from their respective shared library paths. For example:

   ```
   common.loader=${catalina.base}/lib,${catalina.base}/lib/*.jar,${catalina.home}/lib,${catalina.home}/lib/*.jar
   ```

   On WebSphere
   1. Start the WebSphere Administrative Console.
   2. Click Environment then Shared Libraries to begin creating the EDQ shared library.
   3. Create a shared library named ADFessentials specifying the lib.adf directory as the Classpath.

5.3.2 Configuring EDQ

Use this section with Tomcat and WebSphere installation combinations to configure the EDQ product after you have used one of the preceding sections to configure your application server. Additionally, you may use this section to reconfigure the EDQ Functional Packs with your WebLogic Server.
You must create two empty directories to contain your EDQ configuration files. For example:

On Windows: `C:\edqconfig\edqhome` and `C:\edqconfig\edqlocalhome`

On Linux and UNIX: `/opt/edqconfig/edqhome` and `/opt/edqconfig/edqlocalhome`

The first directory (`edqhome`) will contain the files that should not be changed post-installation while the second directory (`edqlocalhome`) will contain any custom settings that you create. Ensure that your application server user has read and write access to the two directories you create.

### 5.3.2.1 Starting the EDQ Configuration Application On Linux and UNIX

To start the EDQ Configuration Application on a Linux or UNIX system, follow these steps:

1. Log in to the target system as your EDQ installation user. See Section 2.2.3, "Choosing User Accounts".
2. Go to your `EDQ_HOME/oracle.edq` directory.
3. Start the wizard by entering the following command:
   ```
   java -jar configapp.jar
   ```
   The EDQ Configuration Wizard is displayed.
4. Go to Section 5.3.2.3, "Configuring EDQ" and complete the configuration.

### 5.3.2.2 Starting the EDQ Configuration Application On Windows

To start the EDQ Configuration Application on a Windows platform, follow these steps:

1. Log in to the target Windows system as your EDQ installation user. See Section 2.2.3, "Choosing User Accounts".
2. Locate the MS-DOS Command Prompt (`cmd.exe`), right-click on it, and then select `Run as administrator`.
3. Go to your `EDQ_HOME/oracle.edq` directory.
4. Start the wizard by entering the following command:
   ```
   java -jar configapp.jar
   ```
   The EDQ Configuration Wizard is displayed.
5. Go to Section 5.3.2.3, "Configuring EDQ" and complete the configuration.

### 5.3.2.3 Configuring EDQ

Use Table 5–2, "Running the EDQ Configuration Application" to configure EDQ (see Section A.4, "EDQ Configuration Application Screens" to review the screens):

<table>
<thead>
<tr>
<th>Screen</th>
<th>Instructions and Action Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDQ Configuration Application Completion</td>
<td>Click <strong>Begin</strong> to proceed with the configuration.</td>
</tr>
<tr>
<td></td>
<td>You may cancel the installation at any time by clicking <strong>Cancel</strong>.</td>
</tr>
</tbody>
</table>
5.3.2.4 Verifying EDQ Functional Packs

You can verify which EDQ functional packs have been installed using the EDQ Configuration Application as described in the preceding sections. Additionally, you should be aware of the following:

- All Functional Packs are needed if you want to install the EDQ Customer Data Services Pack on your EDQ server. For example, for integration with Siebel Customer Relationship Management or Universal Customer Master.
- All Functional Packs are needed if you want to install Oracle Watchlist Screening on your EDQ server.

Table 5–2 (Cont.) Running the EDQ Configuration Application

<table>
<thead>
<tr>
<th>Screen</th>
<th>Instructions and Action Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configuration Directory</td>
<td>Enter the two empty directories, that you created at the beginning of this section, to contain your EDQ configuration files. Click Next to continue.</td>
</tr>
<tr>
<td>Functional Packs</td>
<td>Select the functional packs you want and are licensed to use. Click Next to continue.</td>
</tr>
</tbody>
</table>
| Configure Config Repository Database | Select the correct option for your database from the Selection Type list.  
  - If you are using Tomcat, do not use the JNDI Connection option.  
  - If you are using WebSphere, you may want to use the JNDI Connection option.  
  - For PostgreSQL, you may want to use the Properties option.  
  Enter your database user name and password.  
  Select the option for the type of database you created, Oracle or Postgres.  
  Enter the hostname for the system containing your database, its port number, and the database unique id.  
  Ensure that you have configured the connection correctly by clicking Test.  
  Click Next to continue. |
| Configure Results Repository Database | Select the correct option for your database from the Selection Type list.  
  - If you are using Tomcat, do not use the JNDI Connection option.  
  - If you are using WebSphere, you may want to use the JNDI Connection option.  
  - For PostgreSQL, you may want to use the Properties option.  
  Enter your database user name and password.  
  Select the option for the type of database you created, Oracle or Postgres.  
  Enter the hostname for the system containing your database, its port number, and the database unique id.  
  Ensure that you have configured the connection correctly by clicking Test.  
  Click Next to continue. |
| Selected Options                | Review the summary of your selections. Use Back to modify any of your selections.              |
| EDQ Configuration Application Completion | Click Done to exit the installation program.                                                      |
5.3.3 Deploying the EDQ Application on Tomcat and WebSphere Application Servers

The EDQ application must be manually deployed on Tomcat and WebSphere Application Servers unlike the automatic deployment on a WebLogic Application Server.

Use the following steps to deploy the application on Tomcat and WebSphere:

1. For Tomcat, stop your server.
2. Deploy the edq.war file on your application server.
   
   On WebSphere, ensure that the edq.war file is referenced by the ADF shared library you created in Section 2.2.5.3, "Installing WebSphere."

   For deployment on Tomcat, see the Tomcat Web Application Deployment web page at http://tomcat.apache.org/tomcat-6.0-doc/deployer-howto.html
   
   For deployment on WebSphere, see the IBM Deploying a WAR module web page at http://pic.dhe.ibm.com/infocenter/wchelp/v7r0m0/index.jsp?topic=%2Fcom.ibm.commerce.developer.doc%2Ftasks%2Ftdpdeploying_war_assets_entire.htm

3. To link EDQ to your new configuration directories, use a new Java property named, edq.config.path that specifies the paths to the new directories that you created in Part 5.3.2, "Configuring EDQ" (for example, oedq.home and oedq.local.home.) This path should be separated by a colon on Linux and UNIX and a semi-colon on Windows.

   Alternatively, you can link EDQ to the configuration directories using an environment variable by appending an environment variable named, EDQ_CONFIG_PATH, to your JAVA_OPTS environment variable as follows replacing Path to base EDQ config directory (EDQ Home) and Path to local EDQ config directory (EDQ Local Home) with the paths to the new directories that you created in Part 5.3.2, "Configuring EDQ":

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Tomcat</th>
<th>WebSphere</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linux and UNIX</td>
<td>Set Java options for the EDQ server as follows:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-Dedq.config.path=[Path to base EDQ config directory (EDQ Home)]:[Path to local EDQ config directory (EDQ Local Home)]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-Doracle.mds.cache=simple</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Set Java options for the EDQ server as follows:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-Dedq.config.path=[Path to base EDQ config directory (EDQ Home)]:[Path to local EDQ config directory (EDQ Local Home)]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-Doracle.mds.cache=simple</td>
<td></td>
</tr>
</tbody>
</table>
4. Restart your application server service and ensure that edq.war is successfully deployed.

5.4 Next Step

Go to Section 6, "Getting Started with EDQ" to verify a successful installation and configuration.
This chapter describes how to start using EDQ and is intended to help you become familiar with the main components of EDQ.

6.1 Logging Into EDQ

You can access the EDQ Launchpad and client applications by starting a supported browser and enter the following URL:

http://server name:port number/edq

where server name is the name of the server onto which you installed EDQ and port number is the HTTP or HTTPS port that your application server is running against. If you have deployed the application server to run against a different port, you should use your port number.

Enter your login credentials for the appropriate application server:

**WebLogic**
Your WebLogic user as described in Section 2.2.3, "Choosing User Accounts."

**Tomcat or WebSphere**
Use the default EDQ administrator account, dnadmin, using the password, dnadmin, to log in. You are prompted to change the password the first time you log in. This password must meet the default security standards.

6.2 The EDQ Launchpad

The Launchpad provides access to the EDQ client applications, services, and system management. The following may be displayed on the Launchpad when EDQ is installed:

<table>
<thead>
<tr>
<th>Director</th>
<th>Starts the Director client application, which is the main configuration application.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Server Console</strong></td>
<td>Allows you to perform the following tasks:</td>
</tr>
<tr>
<td></td>
<td>• Schedule jobs</td>
</tr>
<tr>
<td></td>
<td>• View current tasks</td>
</tr>
<tr>
<td></td>
<td>• View the event log</td>
</tr>
<tr>
<td></td>
<td>• View job results</td>
</tr>
<tr>
<td><strong>Dashboard</strong></td>
<td>Starts the Dashboard, where published data quality metrics are displayed.</td>
</tr>
</tbody>
</table>
An Administrator can reconfigure the Launchpad to define the user applications and links that are displayed to users using the Administration pages. For more information, see the EDQ Online Help.

### 6.3 EDQ Documentation

In addition to the EDQ documentation set (see Section , "Related Documents," ) it is delivered with an extensive set of online documentation that is accessed as follows:

#### Online Help

Online help is provided for all user applications. It is accessed in each application by pressing the F1 key or by clicking the Help icons.

#### Project Browser Context-Sensitive Help

All of the main nodes in the Director project browser, such as projects, snapshots, issues and so on, have integrated links to help pages that explain the terms used and the purposes of the object. This context-sensitive help can be accessed by right-clicking on an object in the Project Browser and selecting Help from the context menu or by left-clicking on the node and pressing F1.

#### Processor-Specific Context-Sensitive Help

Each of the supplied data quality processors in the Director Tool Palette has associated help documentation, explaining what the processor does, which data types it can handle, its inputs and outputs and examples of how you might use the processor. This
help can be accessed by right-clicking on a processor on the canvas and selecting **Processor Help** from the context-sensitive menu or by left-clicking on a processor, either on the canvas or in the tool palette, and pressing **F1**.
This chapter describes how to upgrade EDQ from previous releases to the 11g (11.1.1.9) release using the includes the following sections:

- Section 7.1, "Preparing to Upgrade"
- Section 7.2, "Upgrading EDQ"

7.1 Preparing to Upgrade

Use the following sections to prepare to upgrade EDQ on your server:

- Section 7.1.1, "Upgrading Considerations"
- Section 7.1.2, "Upgrading Prerequisites"

7.1.1 Upgrading Considerations

The EDQ 11g Release 1 (11.1.1.9) has fully refactored results tables so all process tasks in jobs that have previous results (upgraded from an earlier version of EDQ) must be run with Intelligent Execution turned off to generate new results tables in the correct format. Process tasks that run with Intelligent Execution turned on will generate an error. This does not affect any processes that do not have results generated from previous versions.

After upgrading to EDQ 11g Release 1 (11.1.1.9), make sure that all jobs that have existing results (in the upgraded EDQ results database) are run with Intelligent Execution turned off on all process tasks, in order to generate new results tables.

Process tasks that run with Intelligent Execution turned on will generate an error if results tables already exist.

7.1.2 Upgrading Prerequisites

You must ensure that your EDQ installation is one of the supported configurations, see Section 2.2.1, "Hardware and Software Requirements."

If you are not upgrading from EDQ Release 11g R1 (11.1.1.7.#), you must gather and note the following information:

- The location of your existing config directory is in the configdir.txt file in the WEB-INF directory of the deployed application. Any custom configuration in this directory will later be copied into new directories supporting EDQ 11g.
- The connection details to the EDQ 11g Release 1 (11.1.1.9) repository database schemas (DIRECTOR and RESULTS); this information is located in your director.properties file. These schemas will be upgraded to support EDQ.
7.2 Upgrading EDQ

Use one of the following sections to upgrade EDQ:

- Section 7.2.1, "Upgrading From EDQ Release 11g R1 (11.1.1.7.4)"
- Section 7.2.2, "Upgrading EDQ From Releases Prior to the Release 11g R1 (11.1.1.7.3)"

7.2.1 Upgrading From EDQ Release 11g R1 (11.1.1.7.4)

All of the files in the new EDQ 11g Release 1 (11.1.1.9) must be installed on your system before attempting an upgrade so you must run the EDQ Release 11g R1 (11.1.1.9) OUI installer, specifying the current EDQ home directory where you installed the files for EDQ 11.1.1.7.4 so that these files are overwritten with the EDQ 11.1.1.9 files, as described in Chapter 4, "Running the EDQ Installer."

Then you use the following steps to upgrade your server from EDQ Release 11g R1 (11.1.1.7.4) to the EDQ Release 11g R1 (11.1.1.9).

1. Stop your EDQ Application Server (Tomcat, WebLogic Server, or WebSphere).
2. Remove the previous application deployment:
   - **On Tomcat**
     Delete the existing EDQ WAR file and expanded directory of the same name in the Tomcat `webapps` directory. Copy the new EDQ Release 11g R1 (11.1.1.9) WAR file to the Tomcat `webapps` directory.
   
   - **On WebLogic Server**
     Update your EDQ deployment to use the new EDQ Release 11g R1 (11.1.1.9) `edq.ear` file. The new file replaced the old file in the same location when you installed the new EDQ files so you can updating your deployment using the WebLogic Server Administration Console. For more information, see Oracle Fusion Middleware Deploying Applications to Oracle WebLogic Server 11g Release 1 (10.3.6).

   - **On WebSphere**
     Undeploy the existing EDQ WAR file then deploy the new EDQ Release 11g R1 (11.1.1.9) WAR file using the WebSphere Administration Console.

3. Start your EDQ Application Server.

7.2.2 Upgrading EDQ From Releases Prior to the Release 11g R1 (11.1.1.7.3)

You begin the upgrade process by running the EDQ Release 11g R1 (11.1.1.9) OUI installer as described in Chapter 4, "Running the EDQ Installer."

All of the files in the new EDQ 11g Release 1 (11.1.1.9) must be installed on your system before attempting an upgrade so you must run the EDQ Release 11g R1 (11.1.1.9) OUI installer as described in Chapter 4, "Running the EDQ Installer."

Next, you use the pre-migration and migration scripts that are Java Archive (JAR) files and part of the EDQ distribution installed by the EDQ Release 11g R1 (11.1.1.9) OUI installer. These scripts are packaged into and executed using the `migration.jar` file. If any migration issues exist, a report is produced detailing the problems so that you can correct them.

1. Navigate to the directory containing `migration.jar` that you installed in the preceding section.
2. Stop your application server.
3. Ensure that your PATH variable includes the location of your JDK/JRE executable.

4. If you are using Case Management, run the pre-migration report by running the following command with \texttt{db\_connection} specifying how to connect to your Director database schema:

\texttt{java -jar migration.jar premigrate db\_connection}

For example, your database connection might be similar to the following:

\texttt{dbtype:dbid@host:port/user/password}

The previous example syntax is explained as follows:

- \texttt{dbtype} should be set to \texttt{pgsql} for PostgreSQL databases or \texttt{oracle} for Oracle Databases.
- \texttt{dbid} should be set to the database name for PostgreSQL databases or the SID for Oracle Databases.
- \texttt{host} should be set to the name of the RDBMS host machine.
- \texttt{port} is optional. If no value is specified, the default port for the database type is assumed. If the database is running on a non-default port number, the value of the database port number should be specified.
- \texttt{user} should be set to the user ID that EDQ uses to connect to the Director database.
- \texttt{password} should be set to the database user's password and defaults to the user name if no password is provided.

5. Examine the pre-migration report. If any issues are noted in the output from the pre-migration report, they should be addressed before proceeding to the next step.

6. Upgrade your Case Management schema by running the following command with \texttt{db\_connection} specifying how to connect to your Case Management schema:

\texttt{java -jar migration.jar cm db\_connection}

The syntax for the database connection, \texttt{db\_connection}, is explained in step 4.

For example, to upgrade an Oracle instance on a locally deployed Oracle Database with the SID of orcl and a user name of director, then the command is as follows with \texttt{password} specifying the password for the director user:

\texttt{java -jar migration.jar cm oracle:orcl@localhost:1521/director/password}

\underline{Note:} RCU should \textit{not} be used to create the EDQ schemas.

7. Upgrade your Director database schema by running the following command with \texttt{db\_connection} specifying how to connect to your Director database schema:

\texttt{java -jar migration.jar migrate db\_connection}

The syntax for the database connection, \texttt{db\_connection}, is explained in step 4.

For example, to upgrade an Oracle instance on a locally deployed Oracle Database with the SID of orcl and a user name of director, then the command is as follows with \texttt{password} specifying the password for the director user:

\texttt{java -jar migration.jar migrate oracle:orcl@localhost:1521/director/password}
Completing the Upgrade

Finally, you use one of the following sections to upgrade your server from all EDQ releases prior to Release 11g R1 (11.1.1.7.3) as appropriate for your application server:

- Section 7.2.2.1, "Upgrading On WebLogic Server"
- Section 7.2.2.2, "Upgrading On Tomcat or WebSphere Server"

7.2.2.1 Upgrading On WebLogic Server

Use the following steps to upgrade EDQ in a WebLogic Server environment.

1. Run the WebLogic Server Configuration Wizard and provide your existing EDQ domain information. The new EDQ configuration directories, oedq.home and oedq.local.home are created in the edq directory of your EDQ domain.

2. Copy the contents of your existing (pre-upgrade) EDQ config directory, that you previously noted, to the new oedq.local.home directory, with the exception of:
   - The logs subdirectory
   - The director.properties file

3. Copy in any override settings from your existing director.properties file to the new director.properties file in your new oedq.local.home directory, taking care to retain the database connections settings in the new file.

   For example, you may have modified director.properties file to set a custom path to a file landing area, set the number of processing threads for your server to use, or adjusted the path to the server that is sent in email notifications.

4. Ensure that startscriptenabled parameter is set to true in your nodemanager.properties file.

5. Start your WebLogic Servers.

7.2.2.2 Upgrading On Tomcat or WebSphere Server

Use the following sections to upgrade EDQ in a Tomcat or WebSphere Server environment.

1. Remove the previous application deployment.

   On Tomcat
   Delete the existing EDQ WAR file and expanded directory of the same name in the Tomcat webapps directory.

   On WebSphere
   Undeploy EDQ using the WebSphere Administration Console.

2. Follow the instructions in Section 5.3.1, "Creating the Necessary Shared Library" to create the ADF shared library necessary to EDQ.

3. Create two new configuration directories named oedq.home and oedq.local.home, because they are necessary to the EDQ 11g Release 1 (11.1.1.9).

4. Run the EDQ Configuration Application to configure the EDQ 11g Release 1 (11.1.1.9) product specifying the connections to your database and to the oedq.home and oedq.local.home configuration directories, see Section 5.3.2, "Configuring EDQ."

---

**Note:** RCU should *not* be used to create the EDQ schemas.
5. Copy the contents of your existing (pre-upgrade) EDQ config directory, that you previously noted, to the new oedq.local.home directory, with the exception of:

   The logs subdirectory
   The director.properties file

6. To link EDQ to your new configuration directories, use a new Java property named, edq.config.path that specifies the paths to the new directories that you created in Section 5.3.2, "Configuring EDQ" (for example, edq.home and edq.local.home.) This path should be separated by a colon on Linux and UNIX and a semi-colon on Windows.

   Alternatively, you can link EDQ to the configuration directories using an environment variable by appending an environment variable named, EDQ_CONFIG_PATH, to your JAVA_OPTS environment variable as follows replacing Path to base EDQ config directory (EDQ Home) and Path to local EDQ config directory (EDQ Local Home) with the paths to the new directories that you created in Part 5.3.2, "Configuring EDQ":

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Tomcat</th>
<th>WebSphere</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Set Java options for the EDQ server as</td>
<td>Set Java options for the EDQ server as</td>
</tr>
<tr>
<td>Linux and UNIX</td>
<td>follows:</td>
<td>follows:</td>
</tr>
<tr>
<td></td>
<td>-Dedq.config.path=[Path to base EDQ config</td>
<td>-Dedq.config.path=[Path to base EDQ config</td>
</tr>
<tr>
<td></td>
<td>directory (EDQ Home)]:[Path to local EDQ</td>
<td>directory (EDQ Home)]:[Path to local EDQ</td>
</tr>
<tr>
<td></td>
<td>config directory (EDQ Local Home)]</td>
<td>config directory (EDQ Local Home)]</td>
</tr>
<tr>
<td></td>
<td>-Doracle.mds.cache=simple</td>
<td>-Doracle.mds.cache=simple</td>
</tr>
<tr>
<td>Windows</td>
<td>Append EDQ_CONFIG_PATH=&quot;[Path to base EDQ</td>
<td>Set Java options for the EDQ server as</td>
</tr>
<tr>
<td></td>
<td>config directory (EDQ Home)]:[Path to local</td>
<td>follows:</td>
</tr>
<tr>
<td></td>
<td>EDQ config directory (EDQ Local Home)]&quot; to</td>
<td>-Dedq.config.path=[Path to base EDQ config</td>
</tr>
<tr>
<td></td>
<td>the JAVA_OPTS environment variable.</td>
<td>directory (EDQ Home)]:[Path to local EDQ</td>
</tr>
<tr>
<td></td>
<td>Or</td>
<td>config directory (EDQ Local Home)]</td>
</tr>
<tr>
<td></td>
<td>Set Java options for the EDQ application</td>
<td>-Doracle.mds.cache=simple</td>
</tr>
<tr>
<td></td>
<td>service as follows:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-Dedq.config.path=[Path to base EDQ config</td>
<td></td>
</tr>
<tr>
<td></td>
<td>directory (EDQ Home)]:[Path to local EDQ</td>
<td></td>
</tr>
<tr>
<td></td>
<td>config directory (EDQ Local Home)]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-Doracle.mds.cache=simple</td>
<td></td>
</tr>
<tr>
<td></td>
<td>For more information about setting Java</td>
<td>For more information about setting generic</td>
</tr>
<tr>
<td></td>
<td>parameters, see the Apache Tomcat</td>
<td>JVM parameters, see the IBM WebSphere</td>
</tr>
<tr>
<td></td>
<td>Documentation web site at</td>
<td>Documentation web site at</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ss?uid=swg21417365#v51</td>
</tr>
</tbody>
</table>

7. Deploy the ADF libraries using the steps in Section , "Configuring Tomcat" or Section , "Configuring WebSphere."

8. Deploy the edq.war file.

   **On Tomcat**
   Copy the WAR file to the Tomcat webapps directory.

   **On WebSphere**
   Deploy the EDQ application using the WebSphere Administration Console.

9. Start your EDQ Application Server.
This chapter describes how to deinstall EDQ on Linux, UNIX, and Windows and includes the following topics:

- Section 8.1, "Deinstalling On Linux and UNIX"
- Section 8.2, "Deinstalling On Windows"

### 8.1 Deinstalling On Linux and UNIX

To deinstall EDQ on a Linux or UNIX system using a .sh installation file, follow these steps:

1. Log in to the target system as your EDQ installation user. See Section 2.2.3, "Choosing User Accounts".
2. Go to the directory, `EDQ_HOME/oui/bin`.
3. Start the installation by entering the following command:
   ```bash
   ./uninstall.sh
   ```
4. Click Next to advance the program.
5. Click Deinstall, and then click Finish to complete the deinstallation.

### Note:
Ensure that all files in the directory have executable permissions for the user you logged in with before continuing.

### 8.2 Deinstalling On Windows

To deinstall EDQ on a Windows platform using a .exe file, follow these steps:

1. Log in to the target Windows system as your EDQ installation user. See Section 2.2.3, "Choosing User Accounts".
2. Locate the MS-DOS Command Prompt (cmd.exe), right-click on it, and then select Run as administrator.
3. Go to the installation directory `EDQ_HOME\oui\bin`.
4. Start the installation by entering the following command:
   ```cmd
   setup.exe -deinstall
   ```
   The EDQ OUI deinstallation program is displayed.
5. Click Next to advance the program.
6. Click **Deinstall**, and then click **Finish** to complete the deinstallation.
This appendix contains screenshots and descriptions for all of the EDQ configuration and installation screens.

This chapter contains the following sections:

- Section A.1, "RCU Screens"
- Section A.2, "OUI Installation Screens"
- Section A.3, "WebLogic Configuration Wizard Screens"
- Section A.4, "EDQ Configuration Application Screens"

A.1 RCU Screens

This section contains screenshots and descriptions for all of the EDQ RCU screens.

A.1.1 Welcome

The Welcome screen is displayed each time you start the installer. You can skip this screen in future by selecting the **Skip this Page Next Time** check box.
A.1.2 Create Repository

Specify to create a new schema or drop a schema in your database.

A.1.3 Database Connection Details

Specify the details to connect to your Oracle database.
A.1.4 Checking Global Prerequisites

Review the prerequisites that were verified.

A.1.5 Select Components

Specify which EDQ components you want to install by selecting or clearing the Oracle Enterprise Data Quality check boxes.
A.1.6 Checking Component Prerequisites

Review the repository prerequisites that were verified.

A.1.7 Schema Passwords

Specify the passwords to use for all of the schemas in your database using the default option.
A.1.8 Map Tablespaces

This screen allows you to create tablespaces or modify existing tablespaces; the EDQ default tablespaces are automatically specified.

Review the tablespace confirmation.
A.1.9 Summary

This screen displays your database details and schemas for you to review prior to creating the new EDQ schemas.

A.1.10 Completion Summary

This screen displays your database details and new EDQ schemas status with the location of the creation log files.
A.1.11 Completion

This screen displays the completion details.

A.2 OUI Installation Screens

This section contains screenshots and descriptions for all of the EDQ installation screens.

A.2.1 Welcome

The Welcome screen is displayed each time you start the installer.
A.2.2 Install Software Updates

This screen helps to quickly and easily search for the latest software updates, including important security updates, using your My Oracle Support account.

A.2.3 Select Installation Type

Use the default Installation for WebLogic Server if this is your installed application server or select Installation for Other Platforms if your application server is Tomcat or WebSphere.
A.2.4 Prerequisite Checks

This screen displays a tree view of the operating system and physical memory checks and the status for each.

A.2.5 Installation Location

Specify the MW_HOME directory and the EDQ home directory. You must already have a Middleware home directory on your system, see Section 2.1.1, "Choosing a Fusion Middleware Home Directory" and Section 2.1.2, "Choosing the EDQ Installation Directory."
A.2.6 Installation Summary

This screen displays a list of directory details, disk space (required and available), and the product components to be installed.

A.2.7 Installation Progress

This screen shows the progress of the installation. When the progress bar reaches 100%, the installation is complete.
A.2.8 Installation Complete

This screen shows the results of the completed installation. You can click **Save** to save the displayed details to a text file.

A.3 WebLogic Configuration Wizard Screens

This section contains screenshots and descriptions for all of the WebLogic Configuration Wizard screens.

A.3.1 Configuration Wizard Welcome

The Welcome screen is displayed each time you start the configuration wizard.
A.3.2 Select Domain Source

By default, the Basic WebLogic Server Domain - 10.3.6.0 [wlserver_10_3] option is always selected.

Select **Oracle Enterprise Data Quality -11.1.1.9.### [Oracle_EDQ1]** check box. The **Oracle JRF - 11.1.1.0 [oracle_common]** check box is automatically selected.

A.3.3 Specify Domain Name and Location

Specify your domain name and location. Oracle recommends that you use edxqdomain as your domain name.
A.3.4 Configure Administrator User Name and Password

Specify your WebLogic administration user credentials.

A.3.5 Configure Server Start Mode and JDK

Select the Development Mode for your domain startup operation mode and the JDK release you want to use. Oracle recommends that you use the most current 64-bit JDK.
A.3.6 Configure JDBC Data Sources

Specify the JDBC data source details.

A.3.7 Test JDBC Data Sources

Select the JDBC data sources you want to test, then click Test Connections. If your data sources fail, use the Previous button to return to the previous screen to correct the configuration.
A.3.8 Select Optional Configuration

No selections are necessary though Oracle recommends the use of Managed Servers, Clusters, and Machines and Deployments and Services.

A.4 EDQ Configuration Application Screens

This section contains screenshots and descriptions for all of the EDQ Configuration Application screens.

A.4.1 EDQ Configuration Application Begin

This screen begins the application.
A.4.2 Configuration Directory

Specify a directory to store your EDQ configuration files.

A.4.3 Functional Packs

Select the Function and Interface configurations using the check boxes.
A.4.4 Configure Config Repository Database

Specify your Config database repository details.

A.4.5 Configure Results Repository Database

Specify your Results database repository details.
A.4.6 Selected Options

This screen shows you a summary of your selections.

A.4.7 EDQ Configuration Application Completion

Select Restart or Close to exit the configuration application.