Oracle® Enterprise Data Quality for Product Data

Oracle DataLens Server Upgrade Guide

Release 5.6.2

E24164-04

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This document describes how to upgrade Oracle DataLens Server from Oracle Enterprise Data Quality for Product Data, formerly known as Oracle Product Data Quality, releases 5.0.01, 5.0.02, 5.1, 5.5.*n*, 5.6.0, and 5.6.1 to 5.6.2. This document contains the following:

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The Enterprise DQ for Product (EDQP) upgrade methodology is to upgrade your Oracle DataLens Administration Server, while maintaining the ability to revert to your existing server. You should *not* uninstall your existing Oracle DataLens Administration Server until you have tested and verified that your new Oracle DataLens Administration Server operates correctly in your environment.

Supported Upgrade Paths

The following previous releases can be upgraded to the EDQP 5.6.0 release:

Release	Default Server Directories	Notes

5.0.01	`/opt/SCSData`
	or
	`C:/SCSData`
		MySQL databases are upgraded to Derby. EDQP directory structures are upgraded and earlier `scs` directories remain.

5.0.02 and 5.1	`/opt/silverCreek/server`
	or
	`C:/silverCreek/server`
		MySQL databases are upgraded to Derby. EDQP directory structures are upgraded and earlier `scs` directories remain.

5.5.*x*	`/opt/datalens/server`
	or
	`C:/datalens/server`
		Earlier internal Derby databases are upgraded to newer Derby version. EDQP directory structures are upgraded and earlier `datalens` directories remain.

The following previous releases can be upgraded to the EDQP 5.6.2 release:

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Release	Default Server Directories	Notes

5.6.0 and 5.6.1	`/opt/Oracle/Middleware/opdq`
	
	or
	
	`C:\Oracle\Middleware\opdq`
		Your server *must* be upgraded to the 5.6.0 release before upgrading to either the 5.6.1 or 5.6.2 release. The EDQP Web application archive (WAR) file is upgraded.

Oracle recommends that you always create a test environment for an upgrade before attempting to upgrade your production environment.

> **Note:** Assistance for upgrades can be obtained by contacting Oracle Consulting Services. Upgrades should be a planned migration to ensure the retention of your EDQP Server Group Topology, data repository, DSAs, data lenses, and data.

Identifying Your Oracle DataLens Server Version

You can identify which product release your existing Oracle DataLens Administration Server is running by logging into the **Oracle DataLens Administration Web** pages for the server you want to upgrade. The Home page displays the version of the Oracle DataLens Administration Server at the top of the page as in the following example:

```
Oracle DataLens Server
Oracle DataLens Server 5.6.0.0, build 2,622, on Feb 14, 2011 at 4:21 PM
Java JVM Version 1.6.0_21 from Sun Microsystems Inc.
JSP Server Apache Tomcat/6.0.29
```

For more information, see *Oracle Enterprise Data Quality for Product Data Oracle DataLens Server Administration Guide*.

Upgrading Your Oracle DataLens Server

This section provides upgrade instructions for the following upgrade paths for your Oracle DataLens Administration Server:

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Upgrading an EDQP 5.0.*nn*, 5.1.*nn*, and 5.5.*nn* Oracle DataLens Server Data Repository

This section describes how to upgrade the data repository directory structure of Oracle DataLens Servers running the EDQP 5.0.*nn*, 5.1.*nn*, and 5.5.*nn* releases to the 5.6.*nn* release configuration. This prepares your Oracle DataLens Server for the installation of the EDQP 5.6.2 release described in "Upgrading from Release 5.6.0 or 5.6.1 to Release 5.6.2" on page 1-9. Use of this section is necessary only for the EDQP 5.0.*nn*, 5.1.*nn*, and 5.5.*nn* releases because the updated data repository structure began with the EDQP 5.6.*nn* release.

Throughout the following Oracle DataLens Server data repository directory structure upgrade process to the 5.6.*nn* release configuration, */server_directory* is used to

indicate the directory path to the existing Oracle DataLens Administration Server. For example, /opt/Oracle/Middleware/opdq on a Linux or UNIX server. Additionally, */opdq_home* is used to indicate the directory path to the 5.6.2 Oracle DataLens Administration Server once installed. For example, /opt/Oracle/Middleware/opdq is the default directory created by the 5.6.2 EDQP installer on a Linux server. The following steps use the Linux server directory syntax though the directory structures are mirrored on Windows servers.

To upgrade your Oracle DataLens Server data repository:

1. Locate and download the 5.6.0 EDQP Upgrade Patch:

   a. Browse to the My Oracle Support Web site:

      https://support.oracle.com

   b. Log in or register.

   c. Click the **Patches & Updates** tab.

   d. Click **Product or Family (Advanced Search)**.

   e. Search for Oracle Enterprise Data Quality for Product Data by beginning to enter the name in the **Product** field and then select it when it is displayed in the list.

   f. Select the **Release** list, click the arrow adjacent to the Oracle Enterprise Data Quality for Product Data folder.

   g. Select the **EDQP 5.6** release and then click **Close**.

   h. Click **Search**.

   i. Select the **UPGRADE FROM 5.0.X, 5.1.X, AND 5.5.X TO 5.6.0** patch from the list of patches, and then click **Download**.

   j. Click the patch file name, and then save it to a temporary directory.

   k. Change directories to the temporary directory.

   l. Unzip the patch zip file into the temporary directory.

2. Ensure that you have a current backup you Oracle DataLens Server including the */server_directory*/data/repository directory.

3. (Optional) Run a job to create a baseline regression set that is representative of your data set to validate upgrade results.

4. Check in all local copies of your DSAs and data lens to your Oracle DataLens Server. You may leave the lenses locked.

5. Shut down all existing Oracle DataLens Servers by stopping the Tomcat Application Server service; your MySQL database must continue to run in order to synchronize all your existing data during the upgrade process.

6. Create a new Oracle DataLens Administration Server by installing EDQP 5.6.2, and then verifying the installation. For more information, see *Oracle Enterprise Data Quality for Product Data Oracle DataLens Server Installation Guide*.

7. Shutdown the 5.6.2 Oracle DataLens Administration Server by stopping its application server its application server in preparation to cleanly copy files.

8. Install the EDQP 5.6.2 Client Software. For more information, see *Oracle Enterprise Data Quality for Product Data Oracle DataLens Server Installation Guide*.

9. Next, the internal database must be updated to the EDQP 5.6.*nn* Derby schema.

For upgrades from 5.5.*nn*, the update occurs automatically when the 5.6.*nn* Oracle DataLens Server is started.

For upgrades from 5.0.01, 5.0.02 or 5.1 *only*, you must transfer the existing MySQL data to the EDQP 5.6.*nn* Derby schema by executing the following additional steps:

a. Copy the 5.6.*nn* internal Derby database, which includes the preconfigured database connection:

Where *temporary_location* is the directory where you unzipped the EDQP Upgrade Patch file.

On Linux or UNIX:

```
cp -R /temporary_location/scsdata.migration /opt/Oracle
/Middleware/opdq/data/repository/internal/scsdata
```

On Windows:

```
xcopy /temporary_location\scsdata.migration C:\Oracle
\Middleware\opdq\data\repository\scsdata /E
```

b. Rename the `ServerProfiles.xml.bak` to `ServerProfiles.xml`; this file is located in the following directory:

On Linux or UNIX:

```
/opt/Oracle/Middleware/opdq/data/shared/config
```

On Windows:

```
C:\Oracle\Middleware\opdq\data\shared\config
```

c. Start your 5.6.2 Oracle DataLens Administration Server by starting its application server.

Note: Your `admin` user password is reset to the `admin1` so you will be prompted to change it.

Your server is automatically updated to the new Derby internal database schema.

Note: If errors occur, restart your server. Ensure that you have correctly copied the Derby database files and that you renamed the `ServerProfiles.xml` file.

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d. Run Application Studio.

e. Import and check in the appropriate database upgrade DSA from the temporary location created in Step 1, run it, and then check it in using one of the following:

Upgrading 5.0.01:   `Upgrade_5_0_01MySQL_to_5_6Derby.pmap`

Upgrading 5.0.02:   `Upgrade_5_0_02MySQL_to_5_6Derby.pmap`

Upgrading 5.1:   `Upgrade_5_1MySQL_to_5_6Derby.pmap`

f. Exit Application Studio.

g. Login to the **Oracle DataLens Administration Web** pages.

h. Create and run scheduled a job to run immediately for the upgrade DSA, which migrates the data from the previous release internal database structure to the new EDQP internal database structure.

i. Review the **DSA Job Status** page for errors. If errors occurred, locate the failing step and the review the information provided for resolution.

j. Review the Oracle DataLens Log for errors relating to the DSA job and any failing steps.

k. If there are no errors, go to Step 10; otherwise continue with the next step.

l. Resolve any DSA job errors by adjusting the DSA.

m. Repeat Steps a through c, and then Steps h through k to resolve the errors.

    If you need assistance in resolving errors, contact Oracle Support.

10. Shutdown the 5.6.2 Oracle DataLens Administration Server by stopping its application server in preparation to cleanly copy files.

11. Copy your data repository to the 5.6.2 Oracle DataLens Server location. These directories include your data repository and shared directory. To copy these directories, use the following copy commands:

Note: There is no `common` directory in the EDQP release 5.6.2 directory structure.The internal database repository is also copied and it is automatically updated by the Oracle DataLens Server on restart.

Note: The upgrade process will not move any of the parameters defined in the `server.cfg` file of your previous installation.

On Linux or UNIX:

From 5.0.01

```
cp -R /opt/SCSData/OR_DEV /opt/Oracle/Middleware/opdq/data/shared/

cp -R /opt/SCSData/OR_PROD /opt/Oracle/Middleware/opdq/data/shared/

cp -R /opt/SCSData/OR_QA /opt/Oracle/Middleware/opdq/data/shared/

cp -R /opt/SCSData/OR_SHARED/common/glossary /opt/Oracle/Middleware/opdq/data
/shared/

cp -R /opt/SCSData/repository/project  /opt/oracle/Middleware/opdq/data
/repository/project/

cp -R /opt/SCSData/repository/workflow  /opt/oracle/Middleware/opdq/data
/repository/workflow/
```

From 5.0.02

```
cp -R /opt/silvercreek/server/data/shared/qadata /opt/Oracle/Middleware/opdq/data
/shared/

cp -R /opt/silvercreek/server/data/shared/proddata  /opt/Oracle/Middleware/opdq
/data/shared/
```

From 5.0.02

```
cp -R /opt/silvercreek/server/data/shared/devdata /opt/Oracle/Middleware/opdq
/data/shared/
```

```
cp -R /opt/silvercreek/server/data/shared/common/glossary /opt/Oracle/Middleware
/opdq/data/shared/
```

```
cp -R /opt/silvercreek/server/data/repository/project /opt/oracle/Middleware
/opdq/data/repository/project/
```

```
cp -R /opt/silvercreek/server/data/repository/workflow /opt/oracle/Middleware
/opdq/data/repository/workflow/
```

From 5.1

```
cp -R /opt/silvercreek/server/data/shared/devdata /opt/Oracle
/Middleware/opdq/data/shared/
```

```
cp -R /opt/silvercreek/server/data/shared/prodata /opt/Oracle
/Middleware/opdq/data/shared/
```

```
cp -R /opt/silvercreek/server/data/shared/qadata /opt/Oracle
/Middleware/opdq/data/shared/
```

```
cp -R /opt/silvercreek/server/data/shared/common/glossary /opt/Oracle
/Middleware/opdq/data/shared/
```

```
cp -R /opt/silvercreek/server/data/repository/project /opt/Oracle/Middleware
/opdq/data/repository/project
```

```
cp -R /opt/silvercreek/server/data/repository/workflow /opt/Oracle/Middleware
/opdq/data/repository/workflow
```

From 5.5.*x*

```
cp -R /opt/datalens/server/shared/devdata /opt/Oracle/Middleware/opdq
/data/shared/
```

```
cp -R /opt/datalens/server/shared/proddata /opt/Oracle/Middleware
/opdq/data/shared/
```

```
cp -R /opt/datalens/server/shared/qadata /opt/Oracle/Middleware/opdq
/data/shared/
```

```
cp -R /opt/datalens/server/shared/common/glossary /opt/Oracle
/Middleware/opdq/data/shared/
```

```
cp -R /opt/datalens/server/data/repository/project /opt/Oracle/Middleware
/opdq/data/repository/project/
```

```
cp -R /opt/datalens/server/data/repository/workflow /opt/Oracle/Middleware
/opdq/data/repository/workflow/
```

On Windows:

At a command prompt as an Administrator user:

From 5.0.01 or 5.0.02

```
xcopy C:\SCSData\OR_DEV C:\Oracle\Middleware\opdq\data\shared /E
```

```
xcopy C:\SCSData\OR_PROD C:\Oracle\Middleware\opdq\data\shared /E
```

```
xcopy C:\SCSData\OR_QA C:\Oracle\Middleware\opdq\data\shared /E
```

From 5.0.01 or 5.0.02

```
xcopy C:\SCSData\OR_SHARED\common\glossary  C:\Oracle\Middleware\opdq\data
\shared /E
```

```
xcopy C:\SCSData\repository\project  C:\oracle\Middleware\opdq\data\repository
\project /E
```

```
xcopy C:\SCSData\repository\workflow  C:\oracle\Middleware\opdq\data\repository
\workflow /E
```

From 5.0.02

```
xcopy C:\silvercreek\server\data\shared\devdata C:\Oracle\Middleware
\opdq\data\shared /E
```

```
xcopy C:\silvercreek\server\data\shared\proddata C:\Oracle\Middleware
\opdq\data\shared /E
```

```
xcopy C:\silvercreek\server\data\shared\qadata C:\Oracle\Middleware
\opdq\data\shared /E
```

```
xcopy C:\silvercreek\server\data\shared\common\glossary  C:\Oracle\Middleware
\opdq\data\shared /E
```

```
xcopy C:\silvercreek\server\data\repository\project  C:\Oracle\Middleware\opdq
\data\repository\project /E
```

```
xcopy C:\silvercreek\server\data\repository\workflow  C:\Oracle\Middleware\opdq
\data\repository\workflow /E
```

From 5.1

```
xcopy C:\silvercreek\server\data\shared\devdata C:\Oracle\Middleware
\opdq\data\shared /E
```

```
xcopy C:\silvercreek\server\data\shared\proddata C:\Oracle\Middleware
\opdq\data\shared /E
```

```
xcopy C:\silvercreek\server\data\shared\qadata C:\Oracle\Middleware
\opdq\data\shared /E
```

```
xcopy C:\silvercreek\server\data\shared\common\glossary  C:\Oracle\Middleware
\opdq\data\shared /E
```

```
xcopy C:\silvercreek\server\data\repository\project  C:\Oracle\Middleware\opdq
\data\repository\project /E
```

```
xcopy C:\silvercreek\server\data\repository\workflow  C:\Oracle\Middleware\opdq
\data\repository\workflow /E
```

From 5.5.*x*

```
xcopy C:\datalens\server\shared\devdata C:\Oracle\Middleware\opdq
\data\shared /E
```

```
xcopy C:\datalens\server\shared\proddata C:\Oracle\Middleware\opdq
\data\shared /E
```

```
xcopy C:\datalens\server\shared\qadata C:\Oracle\Middleware\opdq
\data\shared /E
```

```
xcopy C:\datalens\server\shared\common\glossary C:\Oracle\Middleware
\opdq\data\shared /E
```

```
xcopy C:\datalens\server\data\repository \project C:\Oracle\Middleware\opdq
\data\repository\project /E
```

From 5.5.*x*

```
xcopy C:\datalens\server\data\repository \workflow C:\Oracle\Middleware\opdq
\data\repository\workflow /E
```

> **Note:** The /E flag is used to copy all the subdirectories including the empty ones.

12. Verify that you copied the directory structure correctly.

13. Start your 5.6.2 Oracle DataLens Administration Server by starting its application server.

    Your server is automatically updated to the new Derby internal database schema.

14. Check out all server copies of your DSAs and data lens to your client machines.

15. (Optional) If you created a baseline regression data set on the previous release server, run a job on the 5.6.2 Oracle DataLens Server and compare the results of the data sets. Be aware that the upgrade itself results in progressions (positive changes) because of server fixes from the original baseline though the progressions should not be significant.

    > **Note:** When the EDQP upgrade has successfully completed, MySQL is no longer used by EDQP. MySQL can be shut down if not used by other applications.

Verifying Using the EDQP File Audit

Verify that all EDQP 5.6.2 files have been installed on your Oracle DataLens Server correctly by using the EDQP audit script. Based on the type of installation you selected, WebLogic or Tomcat, all directories and files are inspected to ensure that the structure is correct and that there are no missing files.

> **Note:** The audit script is designed to inspect the default installation paths so it may not operate correctly with alternate installation paths.

The audit script uses the following two parameters to define the type of verification that will be executed:

- **tc**

  Used for Tomcat Application Server installations.

- **wls**

  Used for WebLogic Application Server installations.

Verify the EDQP file structure on your Oracle DataLens Server:

On Linux and UNIX: /opt/dls_install/install/audit/audit.sh *parameter*

On Windows: C:\dls_install\install\audit\audit.bat *parameter*

Where *parameter* indicates the verification type, tc or wls.

Upon completion, a successful verification is indicated by the `Finished` message. If errors are detailed, you should copy the files indicted into the proper directory, and then rerun the `audit` script until a successful verification is accomplished.

Upgrading from Release 5.6.0 or 5.6.1 to Release 5.6.2

The upgrade from either the 5.6.0 or the 5.6.1 releases to the 5.6.2 release is performed by simply deploying the new WAR file. Use the following steps to upgrade your 5.6.0 Oracle DataLens Administration Server:

1. Ensure that your server is running either the 5.6.0 or 5.6.1 release as described in "Identifying Your Oracle DataLens Server Version" on page 1-2.

2. Log in to the server as an administrator user.

3. Browse to the Oracle Software Delivery Cloud Web site at:

    http://edelivery.oracle.com

4. Click the **Continue** link or click a language.

5. Enter the required information and select a country from the list.

6. Click both check boxes to accept the License Agreement and Export Restrictions.

7. Click **Continue**.

8. From the **Select a Product Pack** list, select **E-Business Suite**.

9. From the **Platform** list, select your operating system.

10. Click **Go**.

11. Select the **Oracle Enterprise Data Quality for Product Data 5.6.2** *Media Pack* option and click **Continue**.

12. Click the **Download** button.

13. Save the product zip file, V*nnnnn.nn*, to a temporary directory.

14. Unzip V*nnnnn.nn* in the same directory to extract `oracle_datalens_server_5_n_n.zip`.

15. Unzip `oracle_datalens_server_5_n_n.zip` in the same directory to extract all files including the `datalens.war` file.

16. Change directories to:

    On Linux: `/opt/Oracle/Middleware/opdq`

    On Windows: `C:\Oracle\Middleware\opdq`

17. Complete the upgrade using one of the following sections as appropriate for your application server:

    - "For Tomcat Servers:" on page 1-9
    - "For WebLogic Servers" on page 1-10

For Tomcat Servers:

1. Change directories to:

    On Linux: `/opt/Oracle/Middleware/opdq/tomcat/bin`

    On Windows: `C:\Oracle\Middleware\opdq\tomcat\webapps`

2. Stop your Tomcat Server.

   On Linux: `./shutdown.sh`

   On Windows: `% shutdown.bat`

3. Change directories to:

   On Linux: `/opt/Oracle/Middleware/opdq/tomcat/webapps`

   On Windows: `C:\Oracle\Middleware\opdq\tomcat\webapps`

4. Delete the entire `datalens` directory from the `webapps` directory.

5. Rename the existing WAR file from `datalens.war` to `datalens.backup`.

6. Copy the EDQP 5.6.2 release WAR file, `datalens.war`, from the temporary directory you downloaded and unzipped it in, to the `webapps` directory.

7. Change directories to:

   On Linux: `/opt/Oracle/Middleware/opdq/tomcat/bin`

   On Windows: `C:\Oracle\Middleware\opdq\tomcat\webapps`

8. Start your Tomcat Server.

   On Linux: `./startup.sh`

   On Windows: `% startup.bat`

   The EDQP 5.6.2 release WAR file is now deployed.

9. Verify that the server is up and running correctly by browsing to the Oracle DataLens Server Administration Web site at:

   `http://server:2229/datalens`

   Where *server* is the name of the host where the Oracle DataLens Server was installed.

10. View the log files from the home page to ensure that no errors have been recorded.

For WebLogic Servers

> **Note:** The following steps only apply to the deployment of Development Servers.

1. Change directories to:

   On Linux: `/opt/Oracle/Middleware/opdq`

   On Windows: `C:\Oracle\Middleware\opdq`

2. Rename the existing WAR file to `datalens.backup`.

3. Copy the EDQP 5.6.2 release WAR file, `datalens.war`, from the temporary directory you downloaded and unzipped it in, to the `opdq` directory.

4. Start the WebLogic Server Administration Console by browsing to:

   `http://server:2229/datalens`

   Where *server* is the name of the host where the Oracle DataLens Server was installed.

5. Enter the `dls_domain` user name and password, and then click **Log In**.

   The Oracle WebLogic Server Administration Console home page is displayed.

6. Click **Deployments** from the **Domain Structure** tree.

   The Summary of Deployments page is displayed.

7. Click the **Update** button.

   > **Note:** You must set these EDQP internal database settings correctly for the Oracle DataLens Server to start.

   The Install Application Assistant screen is displayed.

8. Enter or locate the path to the EDQP WAR file.

9. Select the **datalens.war** option, and click **Next**.

10. Click **Next** to install the deployment as an application.

    The optional settings are displayed in the Install Application Assistant screen.

11. Retain the page defaults, and click **Finish**.

    The WAR file is deployed and confirmation message that the deployment was successful is displayed in the Summary of Deployments page, which can take several minutes.

    The Summary of Deployments page is displayed.

12. Select the check box adjacent to **datalens**.

13. Click **Start** and select **Servicing all requests** to ensure that all requests are sent to the EDQP WAR deployment.

    The EDQP 5.6.2 release WAR file is now deployed.

14. Verify that the server is up and running correctly by browsing to the Oracle DataLens Server Administration Web site at:

    `http://`*server*`:2229/datalens`

    Where *server* is the name of the host where the Oracle DataLens Server was installed.

15. View the log files from the home page to ensure that no errors have been recorded.

Next Steps

- Upgrade all other Oracle DataLens Administration Servers using the preceding steps.

- Since your data including data lenses and DSAs reside in the centrally managed repository on the Oracle DataLens Administration Server, to upgrade your Oracle DataLens Transform Servers you simply install the EDQP 5.6.2 release. Prior to installation, ensure that you have configured the server mount (Linux or UNIX) or the shared directory (Windows). For more information about configuring and installing Oracle DataLens Transform Servers, see *Oracle Enterprise Data Quality for Product Data Oracle DataLens Server Installation Guide*.

Reverting to a Previous Release

Should it be necessary to revert to the previous release after executing an upgrade, use one of the following sections:

Reverting to Release 5.*n.n*

Reverting to a 5.*n.n* Oracle DataLens Administration Server from the EDQP Release 5.6.*x*, use the following steps:

1. Shut down the 5.6.2 Oracle DataLens Administration and Transform Servers.

2. Start the 5.*n.n* Oracle DataLens Administration Server.

3. Ensure that the 5.*n.n* Oracle DataLens Administration Servers started correctly by logging into the **Oracle DataLens Administration Web** page and reviewing the Oracle DataLens Log for errors.

4. Start the 5.*n.n* Oracle DataLens Transform Servers.

Reverting to Release 5.6.0 or 5.6.1

1. Log in to your Oracle DataLens Administration Server as an administrator user.

2. Change directories to:

    On Linux: `/opt/Oracle/Middleware/opdq`

    On Windows: `C:\Oracle\Middleware\opdq`

3. Rename the existing WAR file to `datalens.newrelease`

4. Rename the previous WAR file from `datalens.backup` to `datalens.war`.

5. Complete the reversion using one of the following sections as appropriate for your application server:

    - "For Tomcat Servers:" on page 1-9
    - "For WebLogic Servers" on page 1-10

Known Issues

This section describes known issues with the Oracle DataLens Servers installation and configuration.

Existing Job Results

When upgrading 5.0.01, 5.0.02, or 5.1, existing job results are moved into an archive table rather than the **Job Results** web page. You can obtain the archived results by logging into the **Oracle DataLens Administration Web** page, clicking **Operations**, and then clicking **Get Data**. The archived data is displayed in a table including the job id, description, and status for your review.

Related Documents

For more information, see the following documents in the documentation set:

- The *Oracle Enterprise Data Quality for Product Data Oracle DataLens Server Installation Guide* provides detailed Oracle DataLens Server installation instructions.

- The *Oracle Enterprise Data Quality for Product Data Oracle DataLens Server Administration Guide* provides information about installing and managing an Oracle DataLens Server.

- The *Oracle Enterprise Data Quality for Product Data COM Interface Guide* provides information about installing and using the Oracle DataLens Server COM APIs.

- The *Oracle Enterprise Data Quality for Product Data Java Interface Guide* provides information about installing and using the Oracle DataLens Server Java APIs.

- The *Oracle Enterprise Data Quality for Product Data Glossary* provides definitions to commonly used Enterprise DQ for Product technology terms.

See the latest version of this and all documents listed at the Oracle Enterprise Data Quality for Product Data Documentation Web site at:

http://download.oracle.com/docs/cd/E20593_01/index.htm

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers 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.