

Oracle® Enterprise Data Quality for Product Data
R12 PIM Connector User's Guide
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Preface

This guide highlights the core process steps and features of Oracle Enterprise Data Quality for Product Data R12 Product Information Management systems.

By extending the Oracle Product Information Management Data Hub with data quality capabilities, Oracle enables you to improve the accuracy, completeness, and integrity of your master product data.

To understand all of the features presented, you must use this guide in conjunction with the Oracle Enterprise Data Quality for Product Data documents listed in "Related Documents" on page 2-vi.

You must have the Oracle Enterprise Data Quality for Product Data installed on your computer.

Note: Enterprise DQ for Product is only certified with the Oracle Site Hub and Oracle Product Hub for Retail Media Pack.

Audience

You should have a basic understanding of the DataLens Technology.

This manual is designed for the new users of the Oracle Enterprise Data Quality for Product Data:

- Business Analysts
- Subject Matter Experts (SME)
- IT Administrators

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at

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Related Documents

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

- The *Oracle Enterprise Data Quality for Product Data R12 PIM Connector Installation Guide* provides installation and configuration of Enterprise DQ for Product R12 PIM Connector.
- The *Oracle Enterprise Data Quality for Product Data R12 PIM Connector API Interface Guide* provides information about installing and using the R12 PIM Connector API.
- 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 Application Studio Reference Guide* provides information about creating and maintaining Data Service Applications (DSAs).
- The *Oracle Enterprise Data Quality for Product Data AutoBuild Reference Guide* provides information about creating an initial data lens based on existing product information and data lens knowledge.
- The *Oracle Enterprise Data Quality for Product Data Knowledge Studio Reference Guide* provides information about creating and maintaining data lenses.
- The *Oracle Enterprise Data Quality for Product Data Governance Studio Reference Guide* provides information about creating and maintaining Data Service Applications (DSAs).
- The *Oracle Enterprise Data Quality for Product Data Glossary* provides definitions to commonly used Enterprise DQ for Product technology terms.
- The *Oracle Enterprise Data Quality for Product Data Services for Excel Reference Guide* provides information about creating a DSA based on data contained in a Microsoft Excel worksheet.
- The *Oracle Enterprise Data Quality for Product Data Task Manager Reference Guide* provides information about managing tasks created with the Task Manager or Governance Studio applications.

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

Conventions

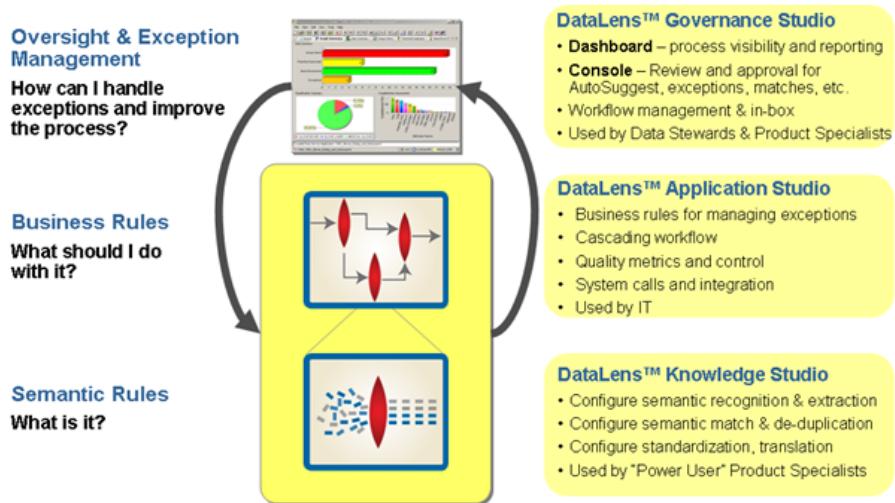
The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, text that you enter, or a file, directory, or path name.
monospace	Boldface, monospace type indicates commands or text that you enter.

Overview

Oracle DataLens Server is built on industry-leading DataLens™ Technology to standardize, match, enrich, and correct product data from different sources and systems. The core DataLens Technology uses patented semantic technology designed from the ground up to tackle the extreme variability typical of product data.

Oracle Enterprise Data Quality for Product Data, formerly Oracle Product Data Quality, uses three core DataLens Technology modules: Governance Studio, Knowledge Studio, and Application Studio. The following figure illustrates the process flow of these modules.



The Vision Demo Database, installed with the Oracle E-Business Suite (EBS) on most Oracle R12 Product Information Management (PIM) systems, is a means to provide access to a common set of data. It is available to use as examples and validate the setup and configuration of the Oracle DataLens Server. It uses the ICC name of Capacitors under the Item Class of Passives.

The Enterprise DQ for Product (EDQP) R12 PIM Connector ships with a set of application components to allow you to test and ensure proper system configuration.

The process uses Enterprise DQ for Product (EDQP) AutoBuild to quickly leverage the existing Product Data Hub set of information and the Enterprise DQ for Product Smart Glossaries to create an initial Semantic Model specific to your enterprise content for use within EBS using the R12 PIM Connector. This R12 PIM Connector Semantic Model is known as a "data lens" in EDQP and these terms are in context throughout this document.

Integration with Oracle Product Data Hub R12

The integration of the EDQP solution with the PIM Data Hub (PIMDH) R12 provides an integrated set of capabilities to categorize, standardize, match, govern, validate, correct, and repurpose product data being introduced from any source system(s) or catalog(s). It provides a set of out of the box integration templates in addition to a robust set of interface functions and procedures that can be leveraged to create customized process flows. These process flows consolidate external data from one or more legacy systems into the PIM staging tables, create interfaces to external systems, import entire catalogs or updates to these catalogs, amongst others.

The included templates allow a quick path to performing the following functions:

- PIM Metadata Synchronization Templates:
 - Automatically generate semantic models from the ICC metadata, attributes, and associated valid values.
 - Provide support for alternate catalog synchronization.
- Create Semantic Key Cache to leverage duplicate prevention and cross referencing.
- Create PIM Production Batch to cleanse and revalidate existing items in your PIM.
- Import external data and load into the PIM staging area by automatically creating a batch.
- Run Cleansing and Matching Process to cleanse either external data or PIMDH batches.

R12 PIM Connector Configuration

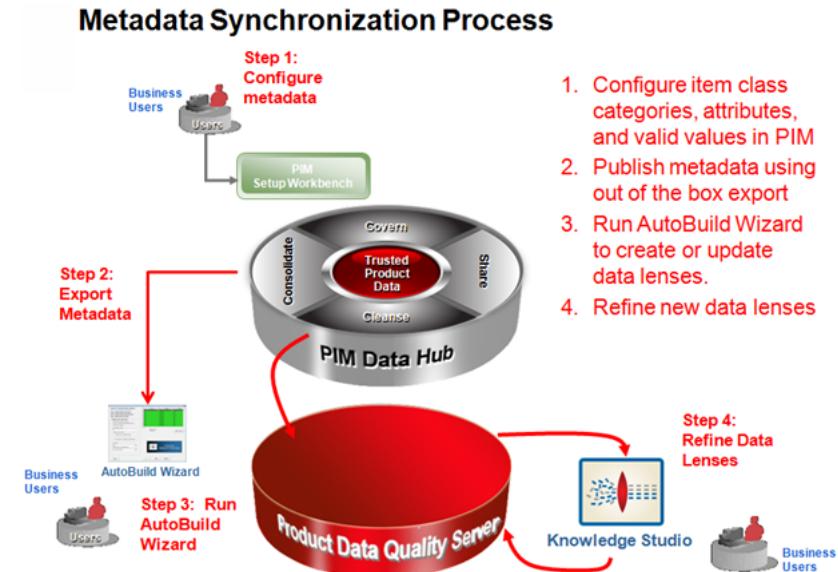
The system can be configured to perform any or all of these checks on all batches of data being imported into the system using the Import Workbench process. These configuration steps are fully described in this document. The integration is delivered with a set of preconfigured integration templates that can be personalized to meet your project requirements. The templates allow you to do operations such as the following: validating global attributes or populating Semantic User Defined Attributes (Form, Fit or Function) for an item on-boarding process using the EDQP system.

ICC Structure as Product Hierarchy

For most effective metadata synchronization, the PIM ICC structure should be set up as a product hierarchy (for example, Category family, Category group, Category line, or Category.) A product hierarchy contains multiple levels and each level is identified by a set of defining attributes. The levels must be non-overlapping and unique. Each PIM item should correspond to a single ICC. The category-specific semantic attributes must be defined at the leaf-node level while the more general category attributes may be defined at higher ICC levels.

Relationship Between ICC and Semantic Model

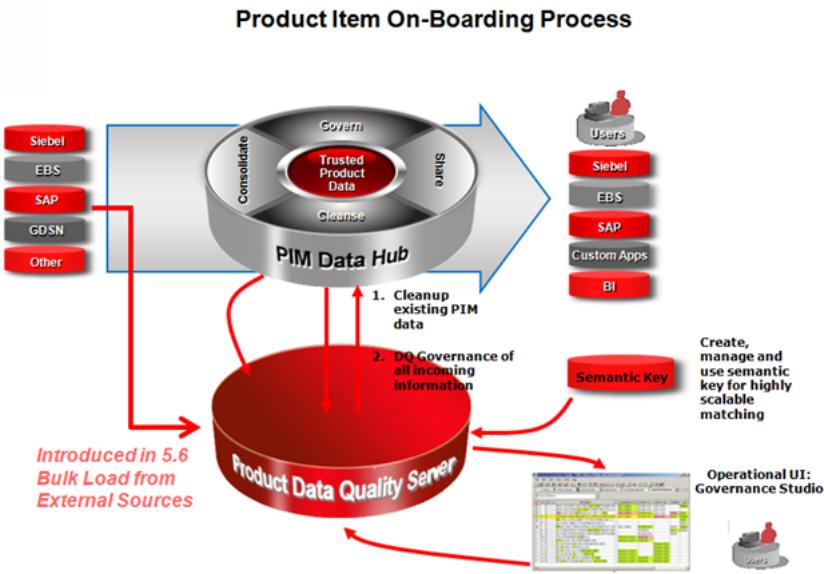
There is a one-to-one relationship between the ICC structure and the data lens generated from the Semantic Model. Since a product hierarchy ICC structure ensures that any given item will have only one Semantic Model, the process of standardizing data is automated, accurate, and reproducible. If a PIM system were to contain more than one ICC for a given category, then multiple Semantic Models and possibly multiple standardization rules could exist for a given item. This can be successfully avoided by upholding the one-to-one relationship between the ICC structure and the Semantic Models, a natural result of using a product hierarchy.



Cleansing and Matching Item On-Boarding Process

The integration of the EDQ for Product Data solution with the PIM Data Hub R12 system adds an important set of data quality capabilities every time product data is imported using the Import Workbench into PIM. The set of pre-built integration processes allow for various automated data quality checks such as:

- Automated Categorization of data into the correct ICC.
- Automated assignments to alternate catalogs categories thru ICC and attribute mappings.
- Automated extraction, validation and standardization of category specific attributes.
- Automated validation and standardization of primary and global attributes.
- Automated multiple description generation and standardization from category specific attributes.
- Duplicate identification and merge of incoming data.
- Duplicate prevention and cross-reference of new items to existing items in the production tables.
- Remediation step for items not meeting standards, assisted by AutoSuggest feature.
- Exception identification and routing.



Getting Started

To use all of the R12 PIM Connector functions, you must ensure that you have completed the following actions before using the R12 PIM Connector:

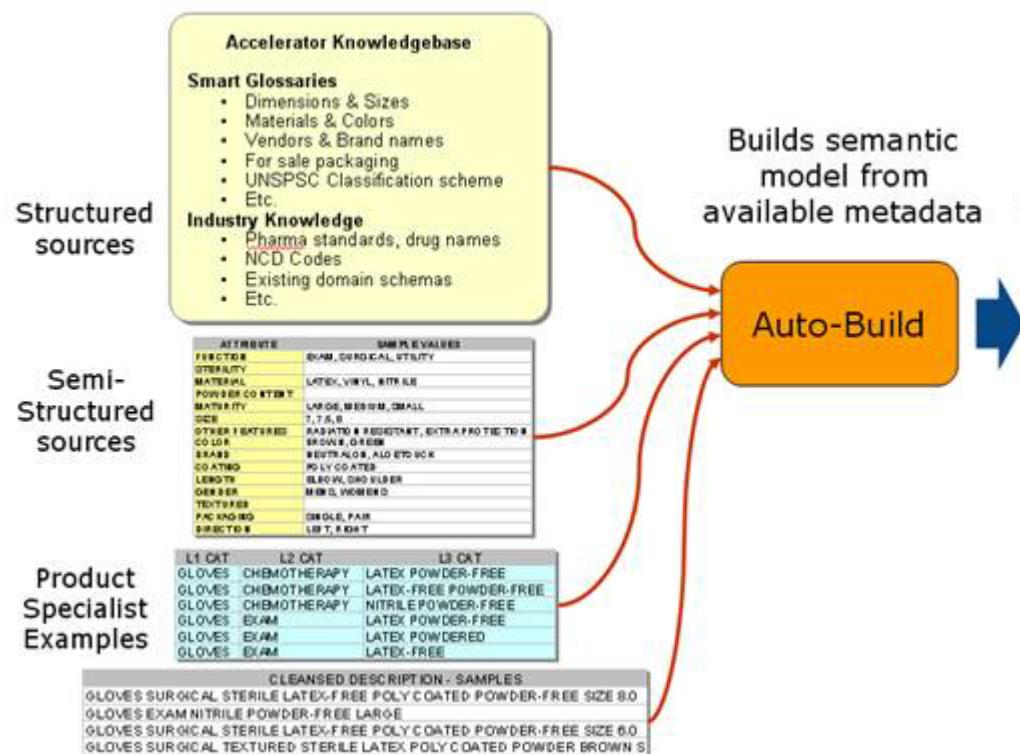
- Install the EBS server (including the latest patch sets)
- Install and configure the R12 PIM Connector 5.6.2. For installation instructions, see *Oracle Enterprise Data Quality for Product Data PIM Connector Implementation Guide*.
- Install and configure an EDQP 5.6.2 Oracle DataLens Server. For instructions, see *Oracle Enterprise Data Quality for Product Data Oracle DataLens Server Installation Guide*.
- Install the EDQP 5.6.2 client software. For installation instructions, see "[Installing the Client Software](#)" on page A-1.
- Install and configure the EDQP Services for Excel 5.6.2. For instructions, see *Oracle Enterprise Data Quality for Product Data Services for Excel Reference Guide*.
- Identify EBS user that will be used. Typically, this is plmmgr or pimmgr. The basic outline for creating your own users with the appropriate R12 PIM Connector roles is described in "[Creating R12 PIM Connector Users](#)" on page B-1.

Creating the Initial Data Lens

AutoBuild constructs a data lens by examining the available product metadata. Given sufficient information, AutoBuild can accomplish the following.

1. Construct a full Item Definition hierarchy, complete with required, scoring, and optional attributes
2. Construct rich term and phrase recognition rules
3. Provide an initial set of classification rules

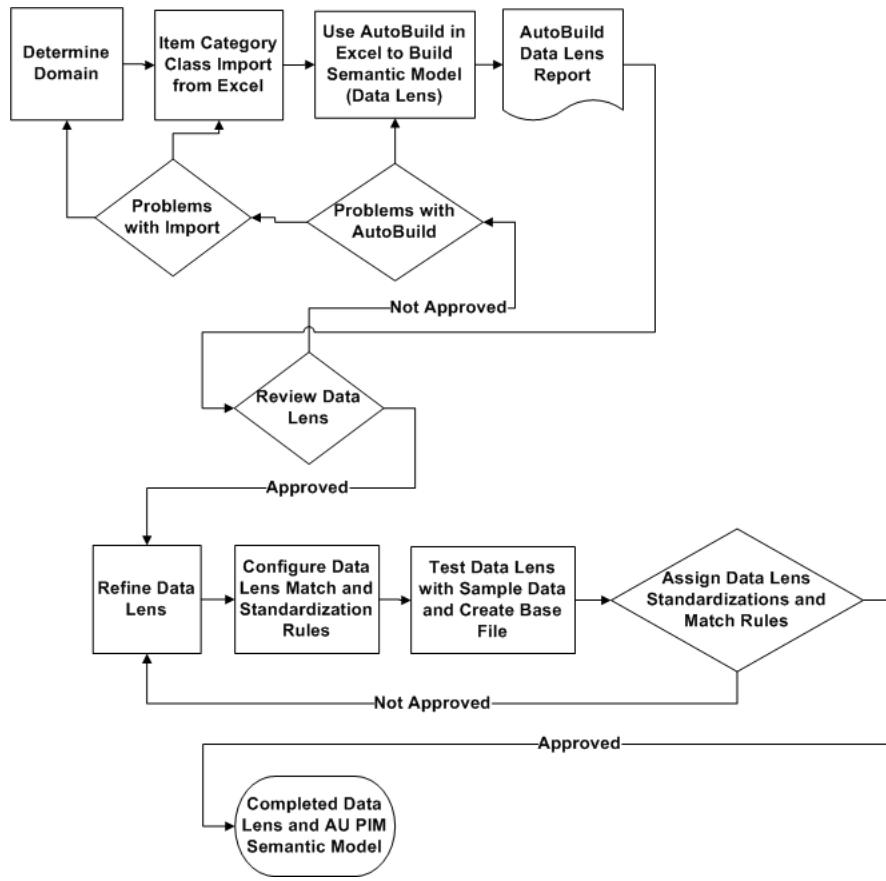
AutoBuild offers a familiar, easy-to-use graphical wizard interface that guides you through the process from start to finish.



You create an initial data lens using AutoBuild, which extracts the Display Format metadata from the Oracle Item Class tables and retrieves sample data from the Product Data Hub Production tables. The Create Semantic Model Data Service Application (DSA) is run as a job from the EDQP Services for Excel and requires the ICC name as a parameter. The Create Semantic Model DSA looks for a Display Format name

associated with the ICC string that matches the name configured in the system profile table for the DLS user. The default Display Format name is "SemanticModel" though any name can be configured as the default Display Format name. For more information about configuring this option, see *Oracle Enterprise Data Quality for Product Data PIM Connector Implementation Guide*.

The Create Semantic Model DSA and corresponding metadata pull process extracts the attributes for the ICC and all of its children. The parent catalog name is also extracted. The Display Format specifies which attributes will be inserted into a worksheet in Excel. The ICC determines which sections of the Item Class Hierarchy are extracted and the Display Format determines which attribute metadata to extract and create the initial data lens.



Once the attributes for the ICC (specified by the Display Format) have been extracted, EDQP AutoBuild is used to create a new data lens that represents the internal Semantic Model of the specified ICC in the EBS PIM. The data lens is then modified with additional grammar rules, standardization, and classification to improve the quality of the data loaded into EBS PIM.

1. Setting the Profile Options

The user profile options must be set for use with the R12 PIM Connector as follows:

Note: The following steps are based on the EBS Release 12.1.3.0.0.

1. Browse to the EBS Web site:

http://rws3210039.us.oracle.com:8095/OA_HTML/AppsLogin



2. Log in to EBS as a user that has System Administrator privileges.

The Oracle Applications Home Page is displayed.

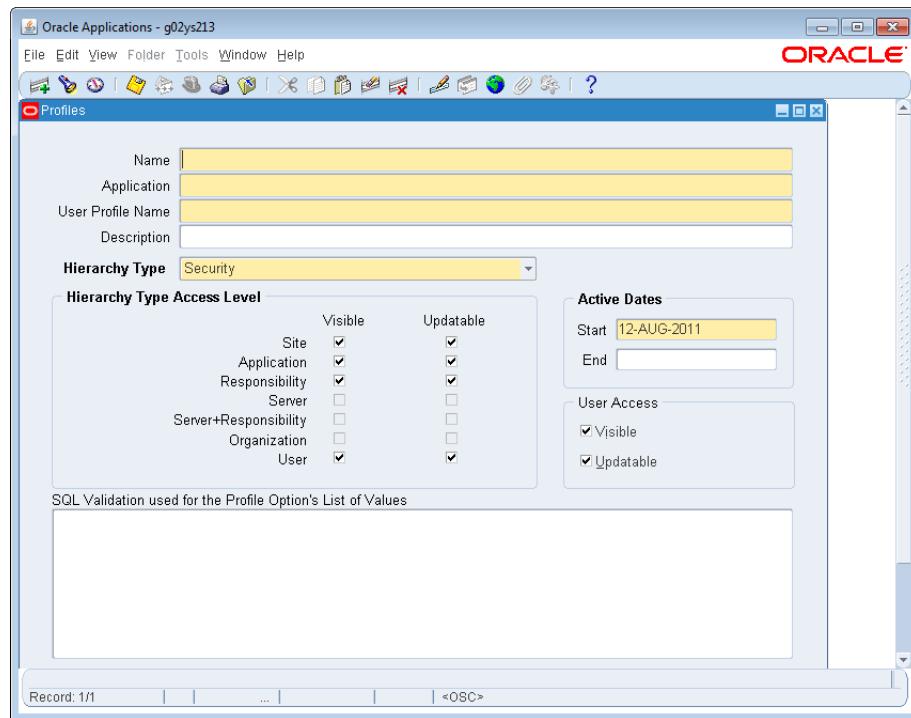
3. Click System Administrator.

From	Type
Williams, Steve	Change Action
Williams, Steve	Change Work Step
	Change Action
	Change Action

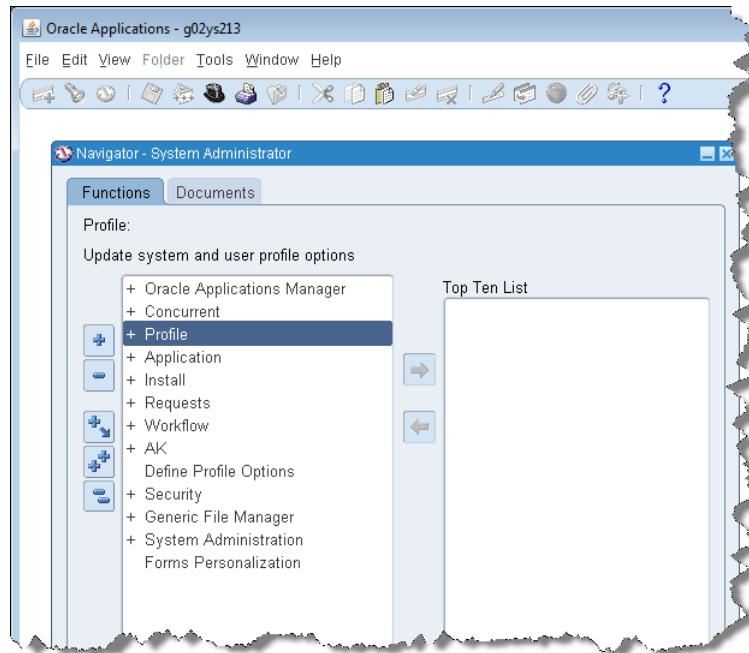
4. Click Define Profile Options.

An Oracle Forms application is started. If you are prompted to verify its digital signature, click **Run** to allow Oracle Applications to install and run.

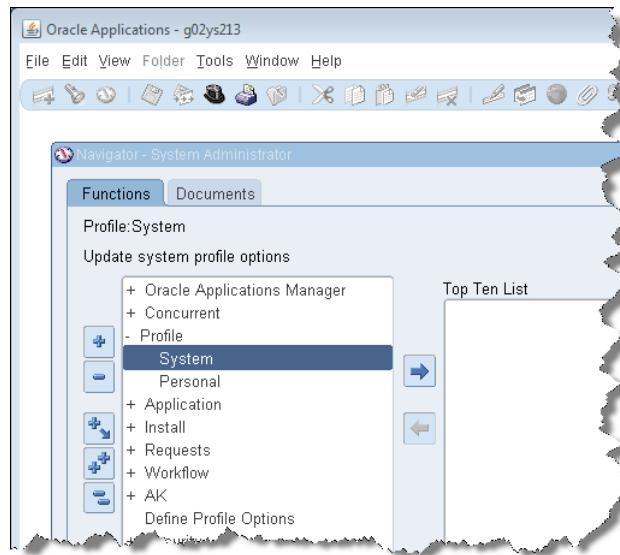
1. Setting the Profile Options



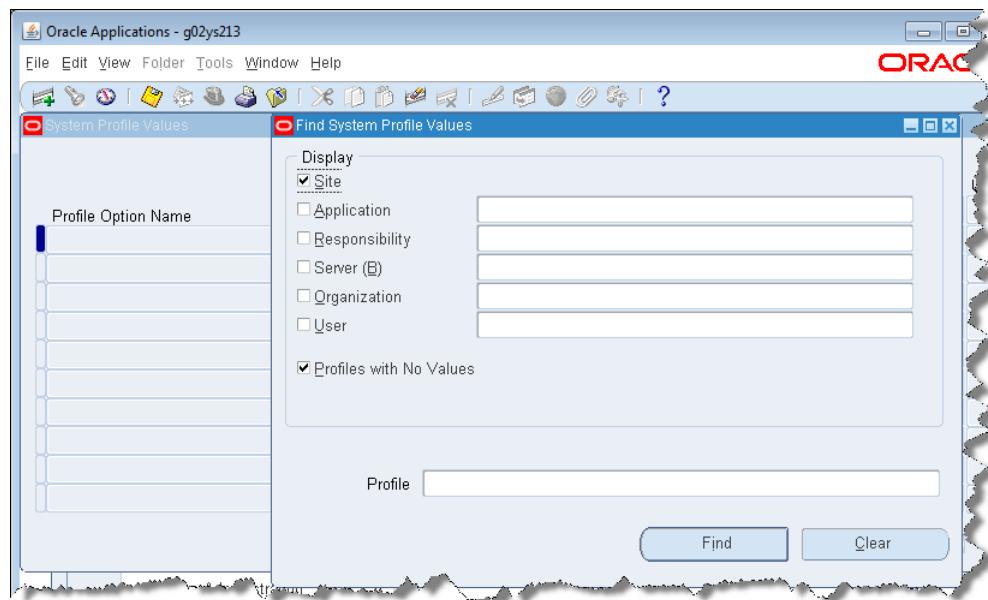
5. Close the **Profiles** dialog.



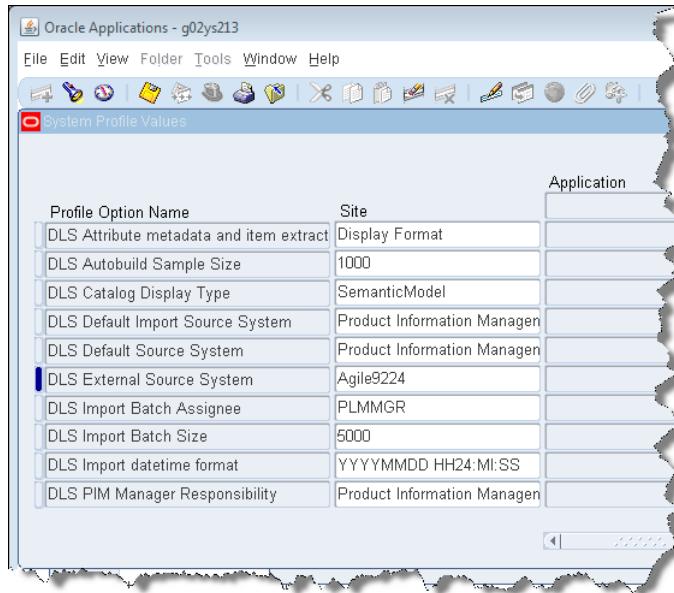
6. Double-click **Profile** to expand it.



7. Double-click System.



8. Enter DLS% in the **Profile** field and click **Find** to search for the profile options that must be updated.



You should use an existing user with correct rights, for example, PIMMGR or PLMMGR. The PLMMGR user has the necessary roles thus avoiding further configuration. The Vision Database user, PIMMGR, can be used as well. If you do not have a PLMMGR user, create the DLSUSER and DLSMANAGER users as described in "[Creating R12 PIM Connector Users](#)" on page B-1.

The Product Information Manager Data Librarian is used for two of these profile options.

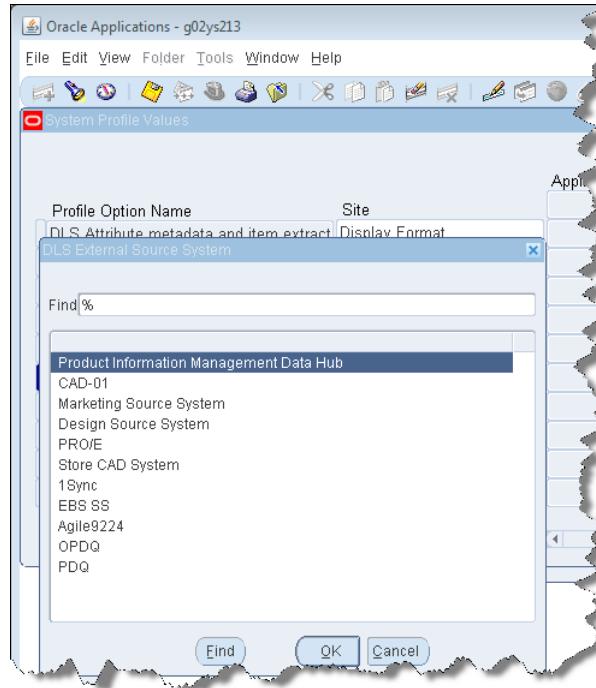
These default values are populated during the R12 PIM Connector installation.

These system profile options are described as follows:

Profile Option	Description
DLS Attribute Metadata & item extract	This option is not used in this release. A switch to toggle the method of metadata extraction. The two values are: <ul style="list-style-type: none"> ■ Display Format - Uses the original "Display Format" to list the metadata to be extracted. ■ DLS Table - Used a new table in the DLS schema call "DLS_EXTRACT_ATTRIBUTE" to list the metadata to be extracted.
DLS Autobuild Sample Size	Contains the number of rows pulled in the metadata pull for each ICC.
DLS Catalog Display Type	Matches the Display Format Type that was setup for the attributes at the catalog level. This is used to define the subset of item form, fit, and function attributes that EDQP will process.
DLS Default Source System	The name of the source system where the new batch is created and this is set to Product Information Management Data Hub . For example, a production pull that you are going use to clean the production data, you pull all the information and put it in the Staging or Interface Tables, and then create the batch against this source.
DLS External Source System	The default external system source name if one is not included with the external batch load. You must select one of the existing names from the list. In this example, it shows as Agile9224 .

Profile Option	Description
DLS Import Batch Assignee	Once the batch is created, you assign the batch to this user. If this is left blank, then the Production API will assign this to the PIM Manager User. For example, you enter PLMMGR or PIMMGR . This parameter is a fallback if the API is called without specifying the Import Batch Assignee.
DLS Import Batch Size	This is the "chunk size" for creating batches that contain a large number of records. For example, if you are creating a batch for a large set of data such as PLM High Tech. These separate batches are tied together with the DLS Job Id. This parameter is a fallback if it is not passed with the DLS API call.
DLS Import datetime format	When importing User Defined Attribute data, this holds the expected date and time format of the data.
DLS PIM Manager Responsibility	The user and the responsibility together set the context for the execution of the API. This information is used when the EDQPGovernance Studio needs to do a production pull. This information is passed to the Oracle APIs to pull the attribute information. For example, Product Information Management Data Librarian.
DLS PIM Manager User	The user that has the privilege to create the batch. This parameter is a fallback if the API is called without specifying the PIM Manager User. As an example, you enter PLMMGR or PIMMGR .
DLS import date format	The default date format. For example, you could enter YYYYMMDD .

9. Click anywhere in the **DLS External Source System** field, and then click the ellipses to activate the associated list of DLS External Source Systems.



10. Select one of the default external source system value that you want to use, and click **OK**. This name must exist in the EBS PIM system.

11. Exit Oracle Applications.

An informational message that your changes to the form have been saved is displayed.

12. Click **OK** to close the dialog.

2. Setting the Display Format

You must determine the target ICC before a data lens can be created. This requires the creation of an Oracle ICC Name.

The data lens creation process relies on each ICC Name being setup correctly and named correctly. The data lens is associated with the Item Catalog hierarchy. The following shows the "Capacitor" hierarchy, as laid out in the Vision Operations ICC.

- PLM High Tech
 - Electronic Components
 - Passives
 - Capacitors

Set the display format:

1. Browse to the EBS Web site:

http://rws3210039.us.oracle.com:8095/OA_HTML/AppsLogin



2. Log in to EBS.

The Oracle Applications Home Page is displayed.

3. For EBS 12.1.3, click **Favorites** to display the menu.
4. From the **Favorites** list, click **Setup Workbench**.

The screenshot shows the Oracle Item Catalog Administration interface. The top navigation bar includes links for Navigator, Favorites, Home, Logout, Preferences, and Help. The main menu bar has items like Items, Documents, Structures, Change Management, Security, Functions, Catalogs, Value Sets, Publish History, and Item Catalog Categories. The 'Item Catalog Categories' menu is selected. A search bar at the top right contains the text 'Search : Item Catalog Categories' and 'Personalize "Search"'. Below the search bar is a table titled 'Item Catalog Category' with columns for Item Catalog Category, Description, Parent Item Catalog Category, and Item Creation Allowed. The table lists several categories, including '1 Retailers Ltd', '1 Retailers Ltd: Real Estate', '1SYNC_ICC', 'A&D Components', 'A&D Requirement Analysis', 'ADSL Modem', 'APC 1Hr Catalog Category 6232', 'API TEST ICC', 'API TEST ICC1', and 'API TEST ICC2'. The 'Item Creation Allowed' column shows values like 'No', 'Yes', and 'Yes'.

5. Search the Item Catalog Category for the category you want to create a semantic model for by entering a search term then click **Go**.

For this example, enter "Capacitors" into the search field and click **Go**.

The screenshot shows the Oracle Item Catalog Administration interface with the search term 'Capacitors' entered in the search field. The search results table shows two categories: 'Capacitors' and 'Capacitors_AIE'. The 'Capacitors' row is highlighted with a red circle. The 'Item Creation Allowed' column for both rows shows 'Yes'.

6. Click **Capacitors**.

The screenshot shows the Oracle Item Catalog Administration interface on the 'Basic Information' page for the 'Capacitors' category. The left sidebar includes links for Basic Information, People, Systems, Attribute Groups, Item Pages, Lifecycles, Attachment Categories, Search Criteria, Match Rules, Display Formats, Import Formats, Templates, Report Templates, and Item Creation. The main content area shows the 'Basic Information' section with 'Catalog Category: Capacitors' and a 'Publish' button. Below it is the 'Item Category' section with 'Item Catalogs: Capacitors Catalog' and a 'Publish' button. The 'Item Category Details' section shows the following data: Description: Capacitors, Item Creation Allowed: Yes, Inactive On: (empty), Parent Item Category: Passives, and Default Template: @Purchased Item.

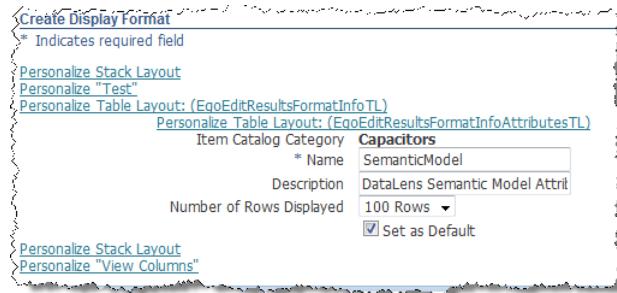
7. From the left navigation menu, click **Display Formats** to create the Semantic Model definition created from a set of attributes available in the Product Data Hub.

Select Name	Description	Item Catalog Category	Default	Rows per Page	Copy	Update
System	System Result Format	Item Catalog	Yes	25		
Capacitors Parametrics		Capacitors	Yes	25		
Reliability and Risk Factors		Capacitors	No	25		
RoHS / WEEE	RoHS / WEEE	Capacitors	No			
SemanticModel	SemanticModel (Capacitors)	Capacitors	No	50		

The Display Formats page allows you to create, copy, edit (update), or delete a Display Model.

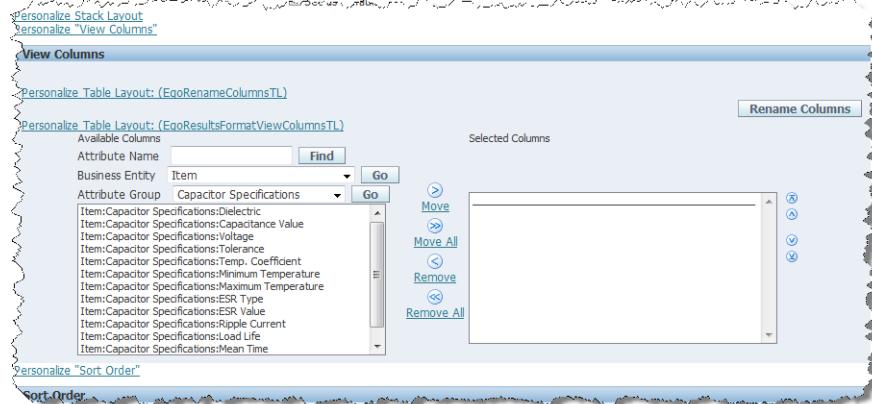
8. Begin creating the Display Format as follows by clicking the **Create** button.

9. Enter "SemanticModel" into the **Name** field.
10. Enter "DataLens Semantic Model Attributes" into the **Description** field.
11. Select **100** from the **Number of Rows Displayed** list.
12. Select the **Set as Default** check box.



13. Select **Attributes** from the **Attribute Columns** list on the left side (there are a set from the Primary Attribute Group by default in the **Selected Columns** list).
14. Click **Remove All** to remove all of the **Item:Primary:** attributes from the **Selected Columns** pane.
15. From the **Business Entity** list, select **Item**.
16. Each Attribute Group has a set of Attributes values. From the **Attribute Group** list, select **Capacitor Specifications**, and then click **Go**.

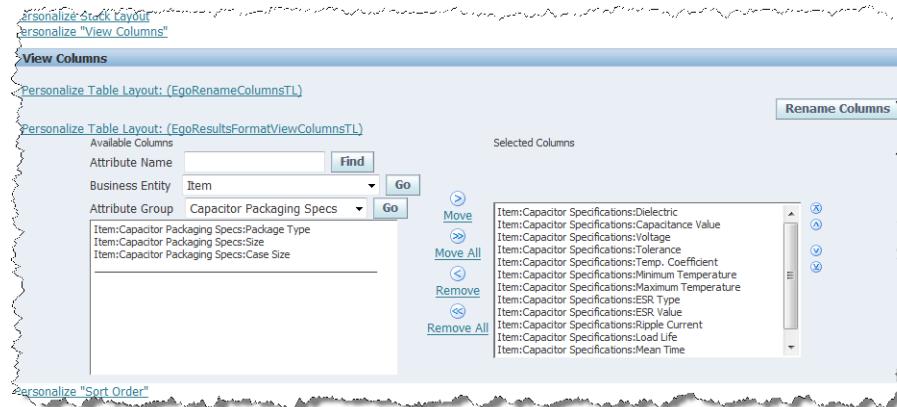
The set of attributes associated with that Attribute Group is displayed.



17. From the **Available Columns** list, select all of the **Item:Capacitor Specifications** attributes, and then click **Move All**.

All of the Capacitor attributes are moved to the **Selected Columns** list.

18. From the **Attribute Group** list, select **Capacitor Packing Specs**, and then click **Go**.



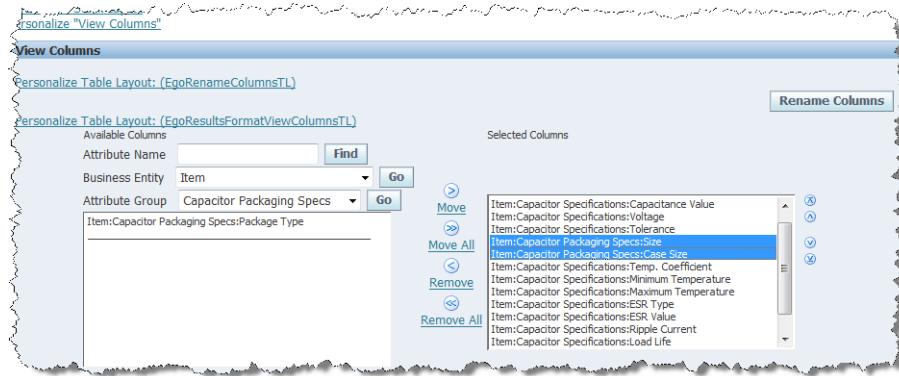
19. From the **Available Columns** list, select **Item:Capacitor Packing Specs:Case** and **Item:Capacitor Packing Specs:Case Size**, and then click **Move**.

The attributes in the **Selected Columns** list should be the following:

Business Entity	Attribute Group	Attribute
Item	Capacitor Specifications	Capacitance
Item	Capacitor Specifications	Dielectric
Item	Capacitor Specifications	Voltage
Item	Capacitor Specifications	Tolerance1
Item	Capacitor Packing Specs	Case
Item	Capacitor Packing Specs	Case_Size
Item	Capacitor Specifications	Temp_Coefficient
Item	Capacitor Specifications	Min_Temperature
Item	Capacitor Specifications	Maximum_Temperature
Item	Capacitor Specifications	Mount
Item	Capacitor Specifications	ESR_Type
Item	Capacitor Specifications	ESR_Value
Item	Capacitor Specifications	Ripple_Current
Item	Capacitor Specifications	Load_Life
Item	Capacitor Specifications	Mean_Time

20. The attribute order is important because it will be the default attribute order in the data lens that you create using AutoBuild.

Reorder the attribute order in the **Selected Columns** list using the arrow buttons to the right so that the **Item:Capacitor Packing Specs:Case** and **Item:Capacitor Packing Specs:Case Size** attributes immediately follow **Item:Capacitor Specifications:Tolerance**.



21. Click the **Apply** button.

A new Display Format named "SemanticModel" with all of the specified attributes is created for input into the AutoBuild process.

3. Creating the PIM_Connector Database Connection

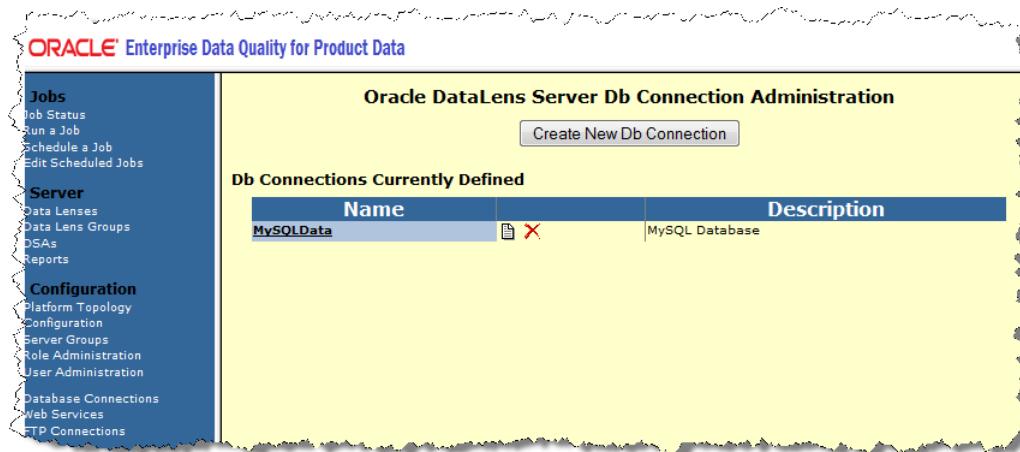
You must create a database connection for use by the EDQP DSAs to process data. This database connection is created in the EDQP Oracle DataLens Administration Server using the Oracle DataLens Administration Server Web pages. For more information, see Oracle Enterprise Data Quality for Product Data Oracle DataLens Server Administration Guide.

1. Browse to the Oracle DataLens Administration Server Web pages:

<http://server:2229/datalens>

Where server is the name of your Oracle DataLens Server.

2. Log in.
3. From the **Configuration** section of the menu, click **Database Connections**.



4. Click **Create New Db Connection**.

ORACLE Enterprise Data Quality for Product Data

Create a New Database Connection

Connection Name:

Description:

Area:

Connection:

Driver:

Test String:

Initial Db Connections: **Max Connections:** **Conn Max Usage:**

Db User:

DB:

Password:

DB Timeout (Minutes): **DB Batch Size:**

SAVE

- From the list above the **Connection** field, select **Oracle** as the connection type. The form is then populated for you with default information.

ORACLE Enterprise Data Quality for Product Data

Create a New Database Connection

Connection Name:

Description:

Area:

Connection:

Driver:

Test String:

Initial Db Connections: **Max Connections:** **Conn Max Usage:**

Db User:

DB:

Password:

DB Timeout (Minutes): **DB Batch Size:**

SAVE

- In the **Connection Name** field, enter **PIM_Connector**.

The Connection Name *must* be this exact name or the process will not work correctly. The DSAs rely on the presence of this exactly named connection.

- Complete the form:

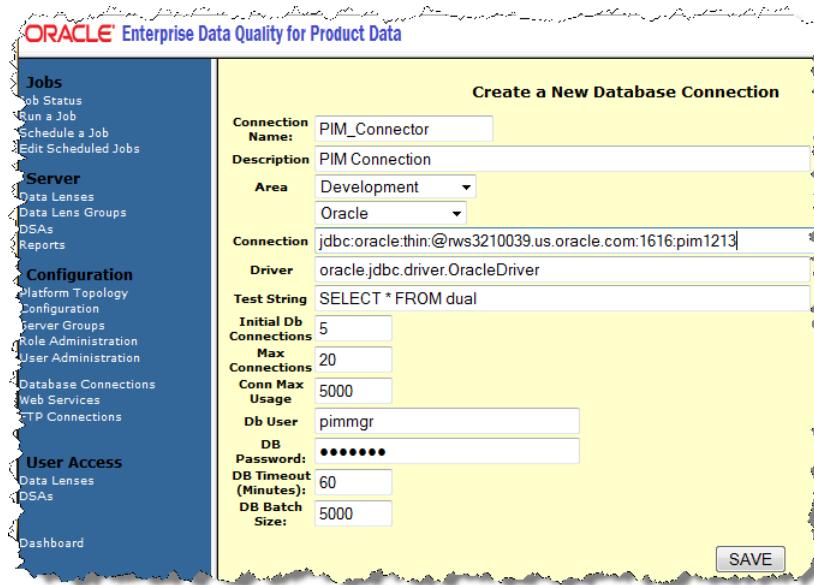
- Enter a description for this database connection.
- In the **Connection** field, edit the machine name, Oracle Database Port, and Database SID to match your environment.

In the following example, these values are set to:

rws3210039.us.oracle.com:1616:pim1213

The Oracle Database Port default value is 1521.

- c. Enter the Db User name.
- d. Enter the DB User password.



8. Click **Save**.

Save the connection information and it is added to the list of database connections to which you are returned.

9. Click the **PIM_Connector** database connection.
10. Click the **Test Saved Development Connection** button to verify that your EDQP Named Development Database Connection is working properly. The following message should be displayed:

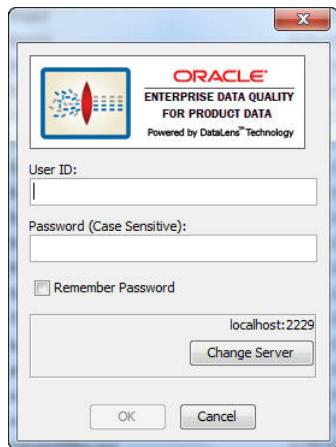
SUCCESSFUL test of the database connection

4. Processing the ICC Import from Excel

You use Services for Excel to import the ICC and Attribute metadata from the Oracle PIM Data Hub system to create the import files for use by AutoBuild. For more information about Services for Excel, see *Oracle Enterprise Data Quality for Product Data Services for Excel Reference Guide*.

1. Start Excel.
2. From the **Services for Excel** toolbar on the Add-Ins tab, click the **DataLens Tools** and select **Job Options** to set the necessary job parameters.

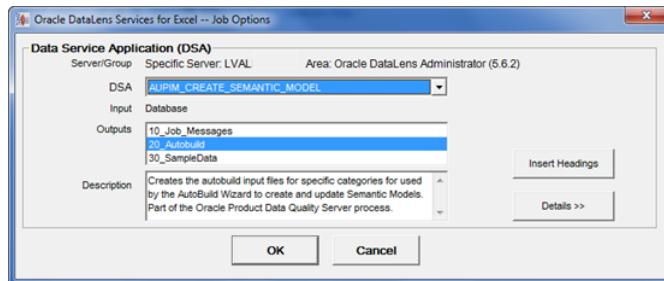
You are prompted to log in to your Oracle DataLens Server.



3. Enter your user id and password, and then click **OK**.

Optional: Use the **Change Server** button to login to a different server or use Secure HTTP.

4. Select the **AUPIM_CREATE_SEMANTIC_MODEL** DSA from the **DSA** list.



5. Click **Insert Headings** to update your open Excel workbook with the correct input and output column headings as defined by the DSA, and then click **OK**.

The following three sheets are created:

- The **10_Job_Messages** worksheet contains information about DSA jobs that have run and any messages that occurred.
- The **20_Autobuild** worksheet contains the following columns:

Columns	Definition
parent_catalog_group_id	System ID
parent_catalog_group	ICC Parent Hierarchy Node Name
catalog_group_id	System ID
catalog_group	ICC Name
attr_id	System ID
attr_name	Attribute name
attr_value	Attribute value
attr uom	Attribute is a Unit of Measure
valueset	Set attribute values to be used

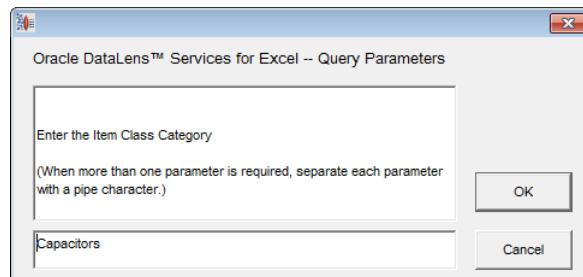
These exact columns must be present and in this order for the DSA job to run correctly.

- The 30_SampleData worksheet contains the following columns

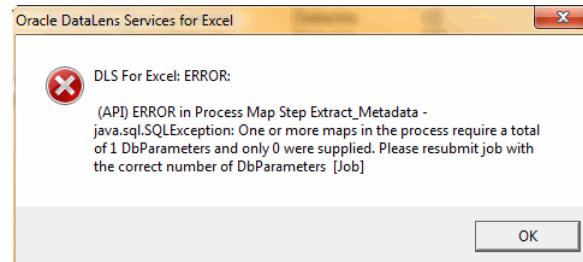
Columns	Definition
catalog_group	ICC Name
item_number	Part number
description	Attribute description

6. Click the **Process Records** button to run the AUPIM_CREATE_SEMANTIC_MODEL DSA to create the AutoBuild input sheets for use by the R12 PIM Connector.

The AUPIM_CREATE_SEMANTIC_MODEL DSA is then run.



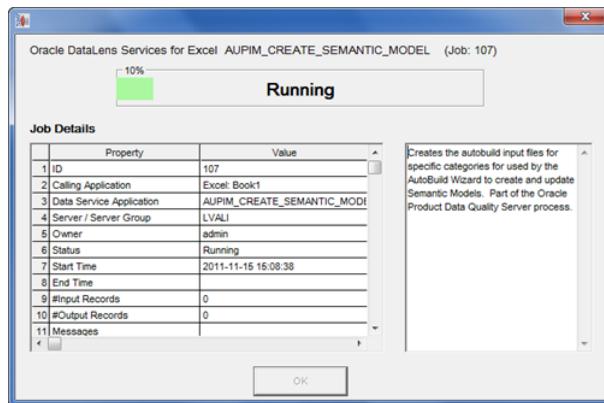
Note: If the following message is displayed, then the DSA Job Options are not set properly:



Click the **DataLens Tools** button and select **Job Options**, and then return to step 4.

7. Enter the ICC parameter associated with the data lens that you are building and click **OK**. For example, "Capacitors".

The job is submitted to the server for processing.



8. Click OK.

The 10_Job_Messages, 20_AutoBuild, and 30_SampleData sheets are populated with data for use by AutoBuild.

9. Continue to the next section, "5. Using AutoBuild Wizard in Excel to Create a Data Lens" on page 2-18.

5. Using AutoBuild Wizard in Excel to Create a Data Lens

AutoBuild constructs a data lens from the available product data metadata. This worksheet is prepopulated by Services for Excel with all of the necessary AutoBuild values. Also, if product data is available in PIM, the DSA job pulls a distinct set of product data, writes it to the 30_SampleData worksheet, and that data is used to create sample data files in the data lens.

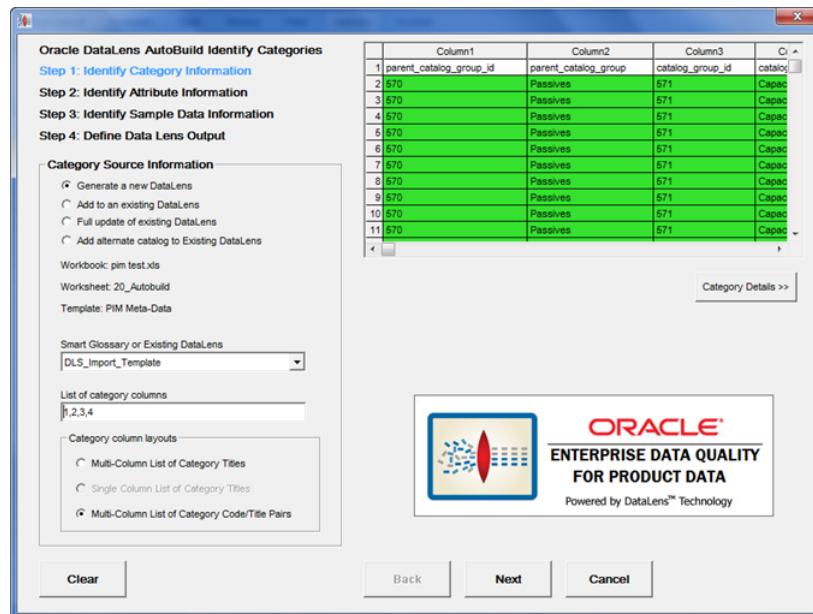
Given the correctly formatted information, AutoBuild will accomplish the following.

- Construct a full Item Definition hierarchy based on the ICC, complete with required and scoring attributes
- Construct rich term and phrase recognition rules
- Create Match Rules (Exact and Close Match)
- Create Standardizations Types
- Create Value Sets

Construct a data lens using AutoBuild and the metadata you created in the previous section:

1. Ensure you have completed the steps in "4. Processing the ICC Import from Excel" on page 2-15.
2. Select the 20_AutoBuild sheet.
3. From the **Services for Excel** Add-In tab, click the **AutoBuild** button to start the AutoBuild process.
4. Select the **Generate a new DataLens** option.

AutoBuild automatically recognizes the headers created from the AUPIM_CREATE_SEMANTIC_MODEL DSA run and will prepopulate the values in each of the steps.

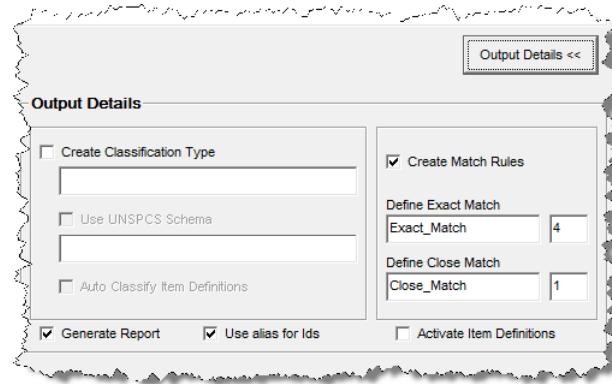


The following values are prepopulated in the AutoBuild wizard when you have selected the **Generate a new DataLens** option:

Step and Option	Value
Step 1: Identify Category Information	
Generate a new DataLens	Selected
Smart Glossary	DLS_Import_Template
List of category columns	1,2,3,4
Category column layouts	Multi-Column List of Category Code/Title Pairs
Step 2: Identify Attribute Information	
Required Attributes Options	
Add Required Attributes	Selected
Item Name Column(s)	4
Scoring Attributes Options	
Add Scoring Attributes	Selected
Attribute names are in the same row at the category	Selected
Row contains Attribute Name/Value pairs/UOM	Selected
Scoring Attributes	6,7,8
Single term columns	6,7,8
Attribute Details	Select Attribute Details <<
Phrase Separator	;
Maximum Terms in a Phrase	5

Step and Option	Value
Step 3: Identify Sample Data Information	
File Selection Options	
Use current file	Selected
Sample Data Worksheet	30_SampleData
Sample Data Rows and Columns Options	
Id Column	2
Group By Column	1
List of Sample Data Columns	3
Step 4: Identify Sample Data Information	
Data Lens Options	
Generate / Update Data Lens	Selected
Open New / Updated Data Lens	Selected
New / Updated Data Lens	Enter a unique <i>Data Lens Name</i>
Output Details Options	Select Output Details <<
Create Match Rules	Selected
Define Exact Match	Exact_Match 4
Define Close Match	Close_Match 1
Generate Report	Selected
Use alias for Ids	Selected

5. Click **Next** on Steps 1 through 3 of the AutoBuild Wizard to advance it.
6. On Step 4 of the AutoBuild Wizard, click the **Output Details** button.



These two check boxes are optionally used as follows:

- **Generate Report** - Select to generate a set of AutoBuild reports that is added to the open workbook as new sheets. These reports include, **AutoLearning Metrics Report**, **Semantic Knowledge Structure**, and **AutoBuild Details Report**. These reports represent the results of the AutoBuild knowledge building process and correspond to the data lens that is built.

For more information about AutoBuild Reports, see *Oracle Enterprise Data Quality for Product Data AutoBuild Reference Guide*.

- **Use alias for Ids** - Automatically selected to use the worksheet headers generated as the alias for Item Definitions and attributes.
- **Activate Item Definitions** - Select to activate the Item Definitions created in your data lens from your source data.

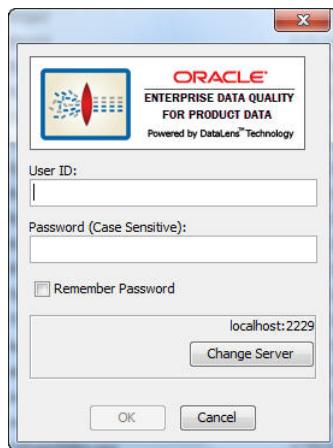
The Item Definitions created by AutoBuild may be incomplete, so if the Item Definitions are not closely reviewed in Knowledge Studio before the data lens is checked in for production use, the result is that many matches are found for incomplete Item Definitions. You can set the Item Definitions in the data lens to be included in the output data by setting the active and inactive flags using this check box. The Knowledge Studio recognizes your data using all Item Definitions though does not standardize the output data in Production mode if the inactive flag is set. In other words, all Item Definitions are always used for recognition, but does not extract or standardize the output data. This is applicable to Production and QA Oracle DataLens Servers only; Development servers ignore the inactive flag.

By default, Item Definitions created by AutoBuild are set to inactive so this check box is not selected.

7. Click **Finish** to complete the AutoBuild Wizard.

The initial data lens is built with the Item Definition (Category) and attribute structure shown in the pre-configured AutoBuild settings.

EDQP is started and you are prompted to log in.



8. Enter your user id and password, and then click **OK**.

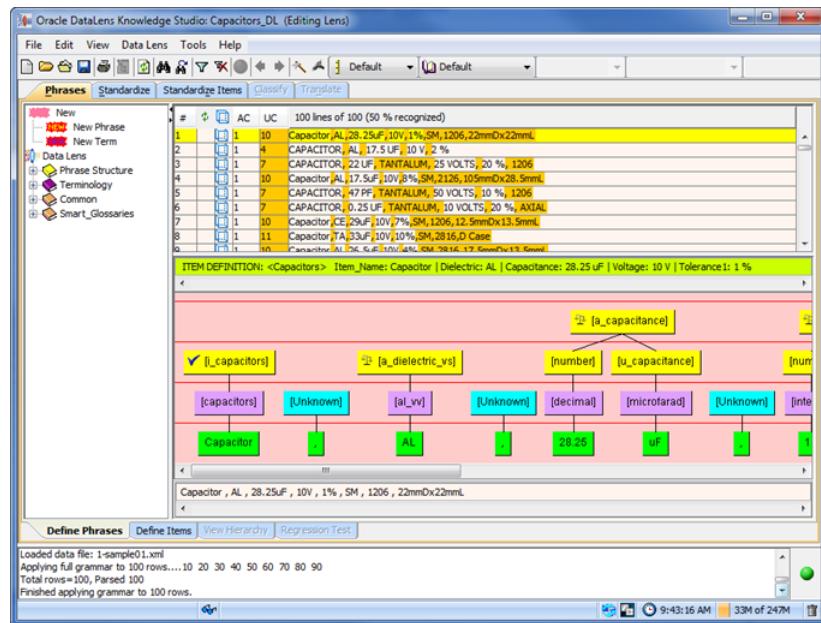
The Knowledge Studio is started and you are prompted to select a data file.

9. Click **Browse**.

10. Select a data file and click **Open**.

11. In the Check-Outs dialog, click **OK** to close it.

Your data lens is opened so that you can review and refine it.



For more information about the Knowledge Studio, see Oracle Enterprise Data Quality for Product Data Knowledge Studio Reference Guide.

12. Continue to the next section, "[6. Reviewing and Refining the Data Lens](#)" on page 2-23.

Using Value Sets when Creating a Data Lens

Certain attributes may have been set up in PIM to have value sets and valid values. The attribute values are restricted such that only the values specified are valid. When you create a Semantic Model, this value set and valid information is exported from the R12 PIM Connector and it appears in your metadata worksheet. The data lens created from the metadata will reflect the valid value and value set information from the metadata worksheet. If there is a value set for an attribute, the valueset column will be populated with the name of the valueset, and the valid values appear in the attr_value column as in the following example:

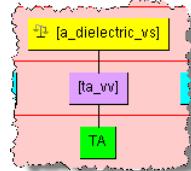
Figure 2-1 Value Set Example Spreadsheet

A	B	C	D	E	F	G	H	I
parent_catalog_group_id	parent_catalog_group	catalog_group_id	catalog_group	attr_id	attr_name	attr_value	attr uom	valueset
2 570	Passives	571	Capacitors	Capacitor_Specs Dielectric	Dielectric	AB		Dielectric
3 570	Passives	571	Capacitors	Capacitor_Specs Dielectric	Dielectric	AL		Dielectric
4 570	Passives	571	Capacitors	Capacitor_Specs Dielectric	Dielectric	CE		Dielectric
5 570	Passives	571	Capacitors	Capacitor_Specs Dielectric	Dielectric	MP		Dielectric
6 570	Passives	571	Capacitors	Capacitor_Specs Dielectric	Dielectric	TA		Dielectric
7 570	Capacitors	572	Capacitor Networks	Capacitor_Specs Shielded	Shielded	Yes		EGO_YES_NO
8 570	Capacitors	572	Capacitor Networks	Capacitor_Specs Shielded	Shielded	No		EGO_YES_NO
9 570	Passives	571	Capacitors	Capacitor_Specs CAPACITANCE	CAPACITANCE	30	uF	
10 570	Passives	571	Capacitors	Capacitor_Specs CAPACITANCE	CAPACITANCE	000225	uF	
11 570	Passives	571	Capacitors	Capacitor_Specs CAPACITANCE	CAPACITANCE	47	uF	
12 570	Passives	571	Capacitors	Capacitor_Specs CAPACITANCE	CAPACITANCE	20	uF	
13 570	Passives	571	Capacitors	Capacitor_Specs CAPACITANCE	CAPACITANCE	20.8999	uF	
14 570	Passives	571	Capacitors	Capacitor_Specs CAPACITANCE	CAPACITANCE	015	uF	

There are two types of value sets: Standard Value Sets and Yes/No Value Sets. The following describe how the R12 PIM Connector handles them in a data lens:

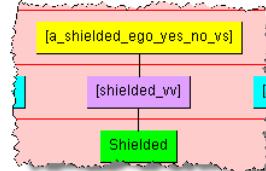
Standard Value Sets

In a standard value set, the valid values correspond to the standardized forms of attribute values that are likely to be found in product data. In this example, 'Dielectric' is the attribute identified in the 'value set' column and 'AB', 'AL', 'CE', 'MP', and 'TA' in the 'attr_value' column. The value is considered to be an abbreviation unless it exceeds four characters, in which case, the fullform in the EDQP Knowledge Studio is set to this value. For example using the metadata in ["Value Set Example Spreadsheet"](#) on page 2-22, 'AL' would set the term as an abbreviation while 'Aluminum' would set it to the full form. The phrase structure for the abbreviation is:



Yes/No Value Sets

The Yes/No value set is a special form of the value set; this value set has 'yes' and 'no' (and alternate forms, such as 'y' and 'n') as the valid values. For example, using the metadata in ["Value Set Example Spreadsheet"](#) on page 2-22, the value set is a yes/no value set, and the valid values are "yes" and "no". The data lens is created such that there are phrase and term rules to recognize forms of "shielded" and "not-shielded". Additionally, the standardization rules for these 'y' and 'n' attributes will be set to "yes" and "no". The phrase structure for the yes, or shielded, term is:



All variations of both yes and no are created in the data lens. For example, the variations of 'not shielded' would be:

- 'not shielded'
- 'not-shielded'
- 'not- shielded'
- 'not -shielded'
- 'not - shielded'
- 'notshielded'

In the data lens, all value set phrase rule names are created with a '_vs' appended to the attribute and '_vv' appended to the term rule name so that they are easily identified in phrase structures.

When using value sets, be sure to refine your data lens as described in ["Refining Value Sets in a Data Lens"](#) on page 2-24.

6. Reviewing and Refining the Data Lens

Review the data lens to confirm proper creation. The data lens should have the correct Item Definitions, Attributes, Phrases, and Terminology as defined by the AutoBuild process.

You should review the data lens and add any undefined terminology to complete the process. The following example shows the term "Tantalum" not being recognized by the "capacitors" Item Definition thus it is "Unknown".

Oracle DataLens Knowledge Studio: Capacitors_Test (Editing Lens)

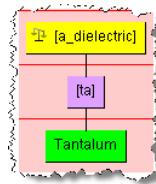
File Edit View Data Lens Tools Help

Phrases Standardize Standardize Items Classify Translate

ITEM DEFINITION: <Capacitors> Item_Name: Capacitor | Voltage: 6.3 V

Tantalum Capacitor F/6.3V

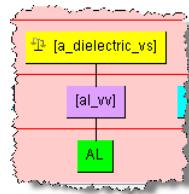
This is a variant of 'ta', which is a type of dielectric. You would make the addition to refine the data lens as in the following example:



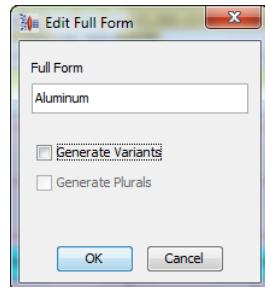
For more information, see *Oracle Enterprise Data Quality for Product Data Knowledge Studio Reference Guide*

Refining Value Sets in a Data Lens

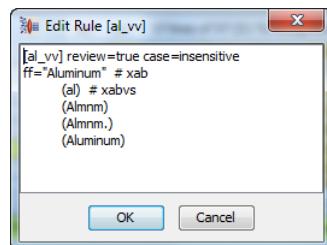
Refining value set phrase structures in the Knowledge Studio is the same as described in the previous section. Since it is possible for some terms to become reassociated with other phrases, it is necessary to review those attributes in your data lens that are based on value sets. For example, the 'Aluminum' attribute could be a production of the 'a_dielectric_vs' phrase rule as intended in "Value Set Example Spreadsheet" on page 2-22. When appropriate, it is important to refine your data lens value sets by adding the full forms for the valid value term rules which are abbreviations. For example, you will need to add the term variant 'aluminum' to the term rule 'al_vv'. Additionally, set the full form to be 'aluminum'. Using the 'Aluminum' example as in the following phrase rule:



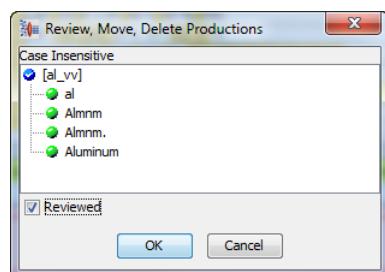
You would edit the 'al_vv' term and add the 'Aluminum' full form (variants can be generated as well):



Then review the phrase rule to ensure that it was added properly:



Finally, review the productions of the 'a_dielectric_vs' phrase rule:

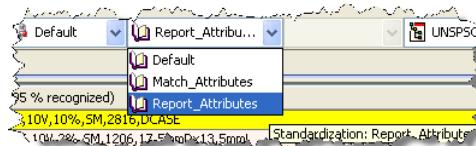


Note: Since AutoBuild ignores duplicate phrase productions when created from a value set, you should review all productions carefully.

7. Refining Standardization and Match Rules

For the R12 PIM Connector, the relevant rules are located in the 'Match_Attributes' Standardization Type. For standardization of data related to R12 PIM Connector loads, all of your refinements should be made to the 'Match_Attributes' Standardization Type.

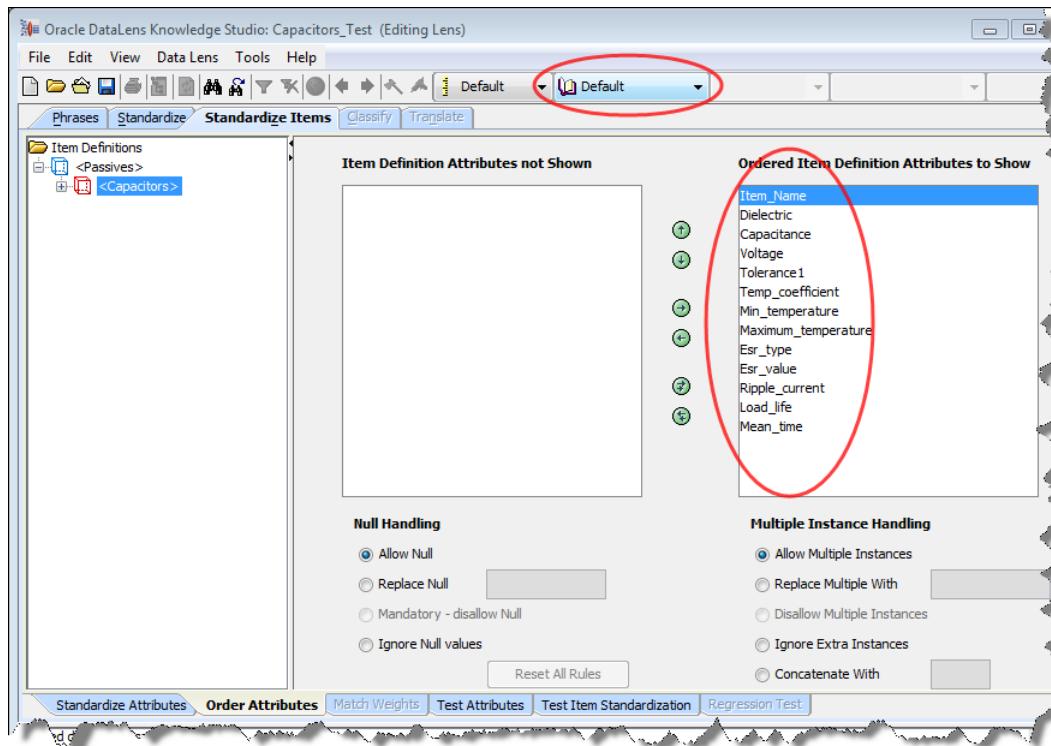
You can view the available standardizations from the **Standardizations** list on the toolbar.



Note: The attribute order is the same order as the name/value attribute order in the 20_AutoBuild worksheet of the open workbook, which is based on the Display Format order.

For the Match_Attributes standardization, there should be two Match types created (Exact_Match with four attributes and Close_Match with one attribute).

For example, the Match_Attributes Standardization Type has the following attribute order:



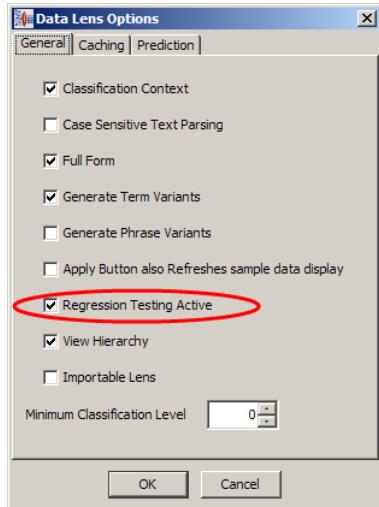
You should review and change the attribute ordering if necessary, create phrase standardizations and replacements appropriate to the data lens, and then check the data lens in.

8. Testing a Data Lens on Sample Data and Create Base File

The purpose of regression testing is to validate that maintenance to the data lens has not created any ambiguities or issues compared to a previously saved version of the

data lens. This important step should be performed after changes have been made to a mature data lens.

Regression testing can be accessed from the phrases, standardization and classification tabs. You should set the **Regression Testing Active** option from the **DataLens Options** to create the base file to enable Regression testing.



For more information about setting up and using Regression tests, see *Oracle Enterprise Data Quality for Product Data Knowledge Studio Reference Guide*.

Once you are happy with the data lens works, you should contact your Administrator to associate this new data lens with the cleansing and matching process.

9. Creating Semantic Key 1 Cache

Enterprise DQ for Product uses patented Semantic technology to create a set of standardized attributes that are output to generate a set of master data or Semantic Key 1 Cache. The cache represents a "semantic" index created from the extracted and standardized attribute information from the R12 PIM Connector.

After you have created the cache, it can be used to rapidly match (compare) requested products to the items found in the cache. Any matches are returned to enable further processing such as form, fit or functional equivalents or duplicate detection to protect the R12 PIM Connector from the addition of identical records.

Open the Governance Studio and run the `Update_Semantic_Cache` job. You are prompted to enter the Category (for example, Capacitors). Once this job has run, it produces the Semantic Key 1 Cache for that Category with typically no results shown in a Governance Studio tab for successful items. Two review tabs, `Unassigned_Semantic_Key` and `Unassigned_Item_Class`, are created to provide you with information about exceptions.

At the end of the process, you will have a complete Semantic Key 1 Cache. This is really an IT function and can only be confirmed by looking at the database. For more details, see *Oracle Enterprise Data Quality for Product Data PIM Connector Implementation Guide*.

The process is typically run on a periodic basis (for example, nightly) to ensure that new updates to the R12 PIM Connector are included in the cache.

Cleansing and Matching R12 PIM Connector Batches

The status of a newly created R12 PIM Connector batch is set to "Active" in EBS. When the batch is in process, the EBS automatically changes the batch status to "Pending" to ensure that the batch cannot be changed while it is in process. This is a critical step to ensure that the job can be correctly processed. The Governance Studio project will not produce any results if the status is not set to "Active".

Creating an R12 PIM Connector Batch

There are two types of batches that can be created for processing. The first type of batch is from an external source (outside the PIM) using Excel. The second type of batch is a pull from production (within the PIM).

Note: You can utilize the WebADI tool that is integrated into the EBS PIM Import Workbench to process external batches, however the two methods described in this chapter are the recommended methods.

Creating an R12 PIM Connector External Data Source Batch

Using Excel, you can create a batch to process data that is external to PIM then load it into the following PIM interface tables:

- EGO_ITM_USR_ATTR_INTRFC
- MTL_SYSTEM_ITEMS_INTERFACE
- MTL_ALT_CATEGORIES_INTERFACE

The external data must be in an Excel spreadsheet contain the following columns in order:

- ID
- source_system_code
- source_system_reference
- description

These columns are the defaults necessary to the AUPIM_PROCESS_EXTERNAL_DATA DSA that is used for processing the data.

1. Log in to EBS.

The Oracle Applications Home Page is displayed.

2. For EBS 12.1.3, click **Favorites** to display the menu.
3. From the **Favorites** list, click:

On EBS 12.1.3: **Import Batches**

On EBS 12.1.1: **Import Workbench**

4. Click one of the following:
 - On EBS 12.1.3: **System Setup**
 - On EBS 12.1.1: **Source System Setup**
5. Ensure that the `source_system_code` you want to use exists in EBS:
 - a. From the **Search** list, select **Source System Code**, and then click **Go**.

- b. Review the list for the `source_system_code` you want to use. In this example, the 'Agile2994' Source System Code is used.

If it exists, ensure that there is a check mark in the **Enabled for Items** column. If necessary, click the **Update** pencil, select the **Enabled for Items** option, and then click **Apply**. Continue to step 6.

If it does not exist, go to step c.

- c. Create a new Source System Code in EBS by clicking **Define Source System**.
- d. Enter a Source System Name in the **Name** field.

- e. Enter the Source System Code you want to use in the **Code** field.
- f. Select the **Enabled for Items** option.
- g. Click **Apply**.

The new Source System Code is created and the **Source Systems** page is refreshed to display it; you may need to click **Go** to refresh the page.

6. On your client machine, start Excel.
7. Open the Excel spreadsheet containing your external data. For this example, open the **CapacitorsExternalBatchTestInput.xls** template spreadsheet.

ID	source_system_code	source_system_reference	description
1	ADSDSGNSS	DML70001	Capacitor,AL,20uF,10V,5%,SM,1206,10mmDx16mmL
2	ADSDSGNSS	DML70002	X7R Capacitor, AX B CASE 47PF 10% 50V 1206 tantulum 50C
3	ADSDSGNSS	DML70003	AL 40C A CASE CAP 0.1UF 60V 20% Z5U AX
4	ADSDSGNSS	DML70004	Capacitor,AL,20.5uF,10V,1%,RD,1206,105mmDx28.5mmL
5	ADSDSGNSS	DML70005	330 picofarad vcas cap 10% 250 volt axl alum 0803
6	ADSDSGNSS	DML70006	CAPACITOR, 22 UF, TA, 100 VOLTS, 5 %, 0803
7	ADSDSGNSS	DML70007	CAP 10UF TA 16V 20% C CASE
8	ADSDSGNSS	DML70008	50V AL Cap 220pF D CASE 1206 20% Y5V SM 40C
9	ADSDSGNSS	DML70009	AXIAL CAP,0803,D CASE, CE,,01UF,50V,20%,X7R
10	ADSDSGNSS	DML70010	Capacitor,TA,100uF,10V,10%,SM,2816,D CASE
11	ACME	DML70011	2000V Copper cable 10% PVC Sheath
12	ACME	DML70012	cap alum 1 microfarad 400volts 1 percent 1206 b-case
13	ACME	DML70013	A CASE CAPACITOR 0.1UF 50V 20% Z5U AX, TANTALUM, 1206, 40C
14	ACME	DML70014	1000V CAPACITOR 0.1UF 50V 20% SM 0803

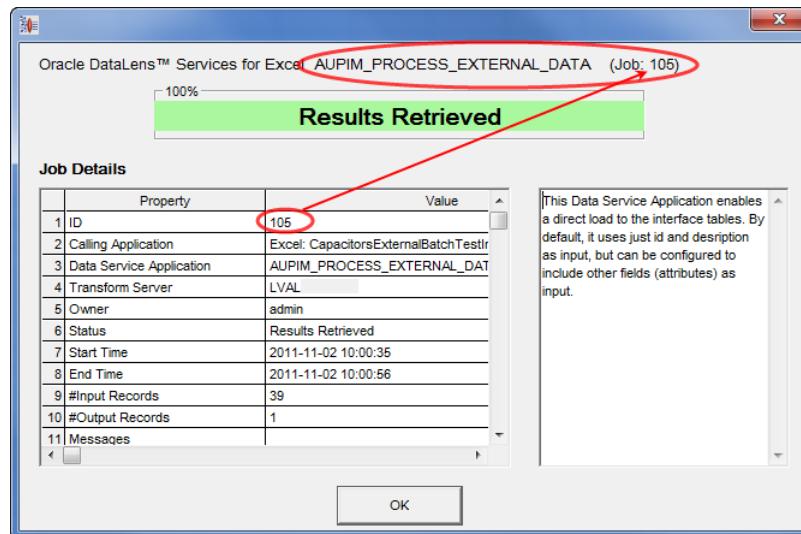
8. Modify the **source_system_code** column so that it matches the name you set in the System Profile Option. In this example, it is "Agile2994".

ID	source_system_code	source_system_reference	description
1	Agile2994	DML70001	Capacitor,AL,20uF,10V,5%,SM,1206,10mmDx16mmL
2	Agile2994	DML70002	X7R Capacitor, AX B CASE 47PF 10% 50V 1206 tantulum 50C
3	Agile2994	DML70003	AL 40C A CASE CAP 0.1UF 60V 20% Z5U AX
4	Agile2994	DML70004	Capacitor,AL,20.5uF,10V,1%,RD,1206,105mmDx28.5mmL
5	Agile2994	DML70005	330 picofarad vcas cap 10% 250 volt axl alum 0803
6	Agile2994	DML70006	CAPACITOR, 22 UF, TA, 100 VOLTS, 5 %, 0803
7	Agile2994	DML70007	CAP 10UF TA 16V 20% C CASE
8	Agile2994	DML70008	50V AL Cap 220pF D CASE 1206 20% Y5V SM 40C
9	Agile2994	DML70009	AXIAL CAP,0803,D CASE, CE,,01UF,50V,20%,X7R
10	Agile2994	DML70010	Capacitor,TA,100uF,10V,10%,SM,2816,D CASE
11	Agile2994	DML70011	2000V Copper cable 10% PVC Sheath
12	Agile2994	DML70012	cap alum 1 microfarad 400volts 1 percent 1206 b-case
13	Agile2994	DML70013	A CASE CAPACITOR 0.1UF 50V 20% Z5U AX, TANTALUM, 1206, 40C
14	Agile2994	DML70014	1000V CAPACITOR 0.1UF 50V 20% SM 0803

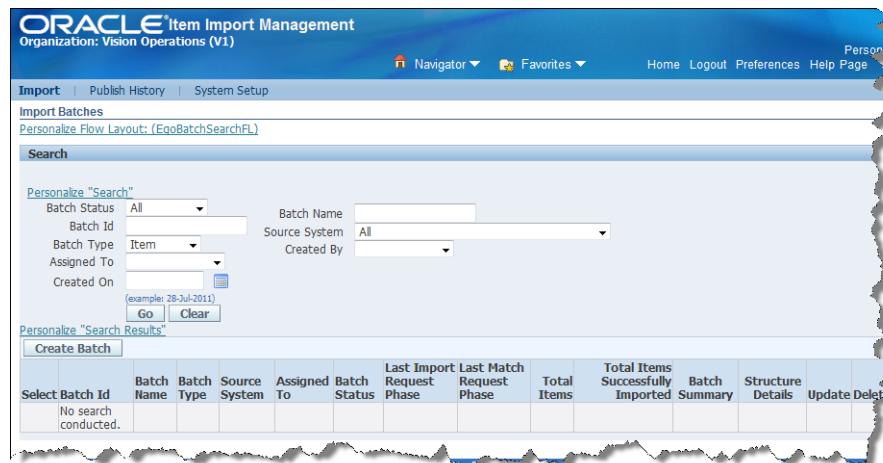
9. From the **Services for Excel** toolbar on the **Add-Ins** tab, click the **Process Records** button.

If you have not logged into your Oracle DataLens Server, the **Oracle Enterprise Data Quality for Product Data Login** dialog box appears. Login to the server displayed or use the **Change Server** button to login to a different server.

When you have successfully logged into the server, your data is processed, inserted in the PIM interface table, and the batch is created within PIM. A status dialog box is displayed that identifies the DSA that was processed and the JobID.



10. Click **OK**.
11. Review the **10_Job_Messages** worksheet to verify that no processing errors occurred. If errors occur, resolve the errors in the DSA or data, and then reprocess the records.
12. Return to EBS.
13. Click **Import** to return to the Import Batches page.

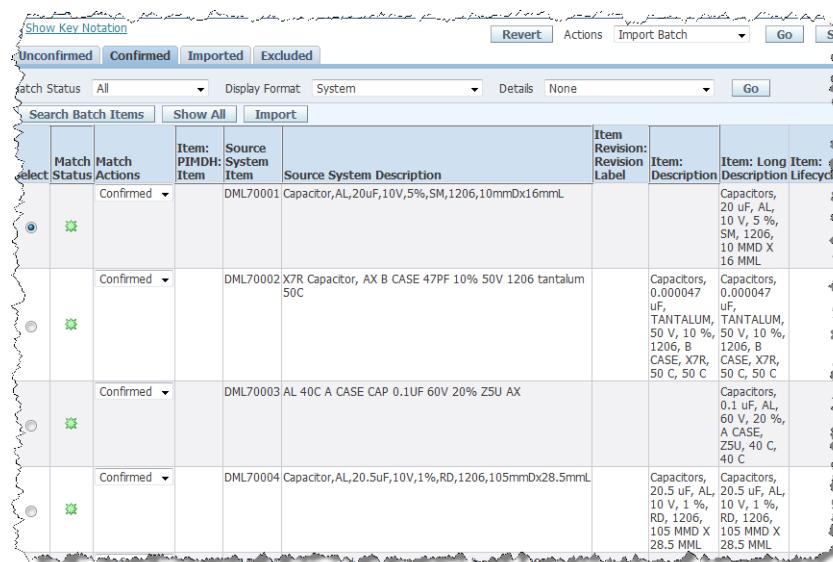


14. Click **Go**.
- All batches are displayed.
15. Review the list of batches and confirm that your external batch job is displayed. The JobID displayed in Excel is included in the Batch Name.



Batch Id	Batch Name	Batch Type	Source System	Assigned To	Batch Status	Last Import Request Phase	Last Match Request Phase	Total Items	Successfully Imported	Total Items	Batch Summary	Structure Details	Update
10004061	External Batch - JobID: 105	Item	Product Information Management Data Hub	Edgar Williams	Active			38	0	0			
10004044	External Batch - JobID: 517	Item	Agile Electronics Supplies	Edgar Williams	Pending			20	0	0			
10004042	External Batch - JobID: 511	Item	Product Information Management Data Hub	Edgar Williams	Active			20	0	0			
10004041	External Batch - JobID: 503	Item	Product Information Management Data Hub	Edgar Williams	Active			38	0	0			
10004031	External Batch - JobID: 99	Item	Agile Electronic Supplies	Edgar Williams	Active			38	0	0			

16. Optional: Select the **Update** pencil in the row of the batch you want to review, and then click the **Confirmed** tab to see the batch run details.



Match Status		Match Actions	Item: PIMID: Item	Source System Item	Source System Description	Item Revision: Revision Label	Item: Description	Item: Long Item: Description Lifecycle
		Confirmed			DML70001 Capacitor,AL,20uF,10V,5%,SM,1206,10mmDx16mmL			Capacitors, 20 uF, AL, 10 V, 5 %, SM, 1206, 10 MML X 16 MML
		Confirmed			DML70002 X7R Capacitor, AX B CASE 47PF 10% 50V 1206 tantalum 50C			Capacitors, 0.000047 uF, TANTALUM, 50 V, 10 %, 1206, B CASE, X7R, 50 C, 50 C
		Confirmed			DML70003 AL 40C A CASE CAP 0.1UF 60V 20% Z5U AX			Capacitors, 0.1 uF, AL, 60 V, 20 %, A CASE, Z5U, 40 C, 40 C
		Confirmed			DML70004 Capacitor,AL,20.5uF,10V,1%,RD,1206,105mmDx28.5mmL			Capacitors, 20.5 uF, AL, 10 V, 1 %, RD, 1206, 105 MML X 28.5 MML

Creating an R12 PIM Connector Production Pull Data Source Batch

The AUPIM_Create_Production_Batch.ams Governance Studio project creates a new Batch, pulling data from the Production tables in the PIM.

1. Start EDQP and log in.

The EDQP Launch Pad is displayed.

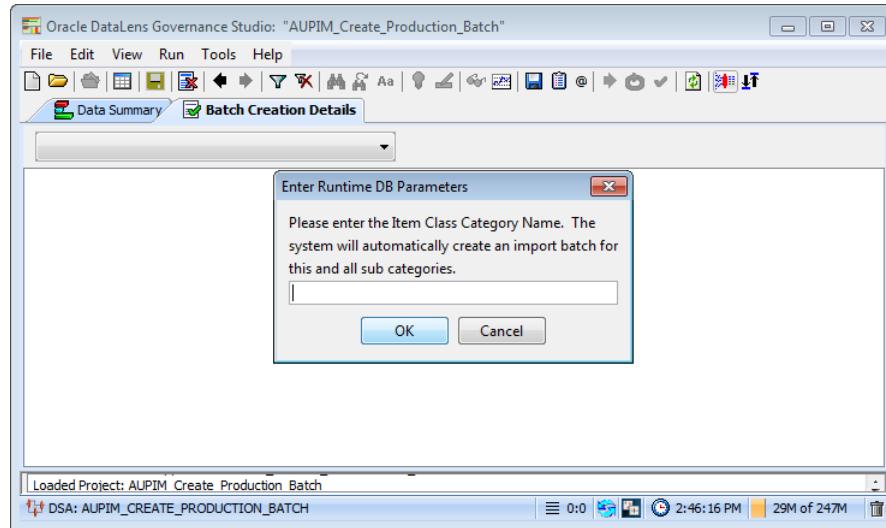
2. Click **Oracle DataLens Governance Studio**.

For more information, see *Oracle Enterprise Data Quality for Product Data Governance Studio Reference Guide*.

3. Select the **AUPIM_Create_Production_Batch** project or click **Cancel** to import it as follows:
 - a. From the **File** menu, select **Import**.
 - b. Locate the AUPIM_Create_Production_Batch.ams file in the `gov_studio_projects` directory that you extracted during the R12 PIM Connector Connector installation. For installation information, see *Oracle Enterprise Data Quality for Product Data PIM Connector Implementation Guide*.
 - c. Select the file and click **Open**.

The project is imported and opened.

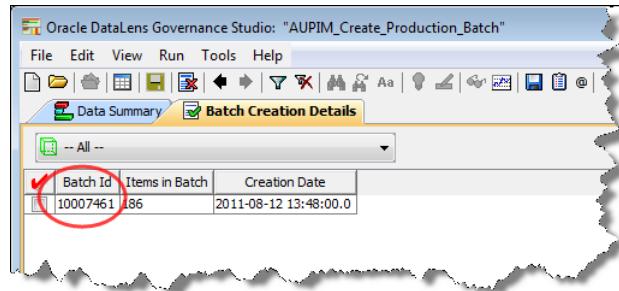
4. On the toolbar, click **Transform Data** to begin the production pull batch.



5. Enter the name of the Item Category, "Capacitors" for this example, and then click **OK**.

When the job finishes, it creates a new batch with data from the selected Item Category.

6. Select the **Batch Creation Details** tab to see the results of the job run, and note or copy the new Batch Id for later use.



7. Begin verifying the production batch, browse to the EBS Web site:

http://rws3210039.us.oracle.com:8095/OA_HTML/AppsLogin



8. Log in to EBS.

The Oracle Applications Home Page is displayed.

9. For EBS 12.1.3, click **Favorites** to display the menu.

10. From the **Favorites** list, click:

On EBS 12.1.3: **Import Batches**

On EBS 12.1.1: **Import Workbench**

11. Click **Go**.

All batches are displayed.

12. Review the list of batches and confirm that your external batch job is displayed. The JobID displayed in Excel is included in the Batch Name.

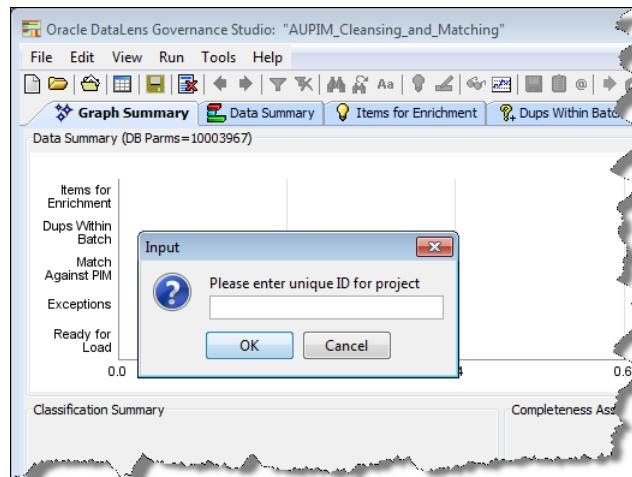
13. Review the newly created Batch in Oracle Batch Interface table. The new batch uses the following defaults:

Field Name	Value
Batch Id	New Batch Number (System Generated)
Batch Name	DLS Production pull batch
Batch Type	Item
Source System	Agile9224
Assigned To	Albert Bakker
Batch Status	Completed

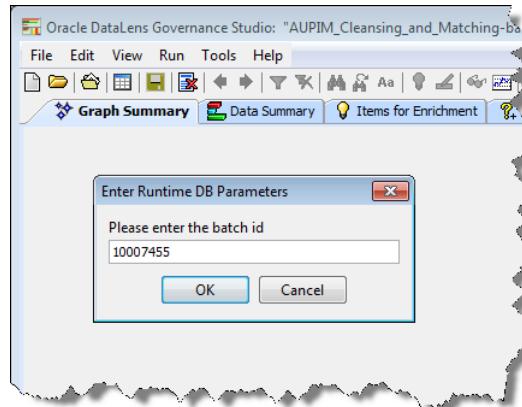
Note: The batch is set to the "Active" status in order to allow the system to correctly process the batch; otherwise, you an error is generated.

The results will be an Oracle batch with a set of imported rows in EBS that can be reviewed on the **Confirmed** tab created from the production PIM data for the selected item category as described in the previous section. These imported rows are considered "Confirmed" because they are the PIM.

14. Identify the EBS Batch Id for this production pull batch. You use the Batch Id to create a unique Governance Studio job to process the data pulled for the selected Category.
15. Return to Governance Studio.
16. Open the **DataLens_Cleansing_and_Matching** project or a previously created project (for example, **DataLens_Cleansing_and_Matching-10003377**).
17. From the **File** menu, select **New Project From...**



18. Enter the Governance Studio Batch Id number noted in step 6, click **Run**. In this example, it is "batch1396".
19. Click **Refresh**, and then **Yes**.
20. Click **Transform Data**, and then **Yes**.



21. Enter the EBS Batch Id noted in step 14. In this example, it is "10007455".

The job runs and the Governance Studio tabs are populated with data.

Reviewing the R12 PIM Connector Production Pull Batch Results

Once the DataLens_Cleansing_and_Matching Governance Studio job runs, it produces a series of output tabs that provide you with a way to process the batch using a series of processing tabs.

The logic used in each of the tabs is as follows.

Tab Name	Description
Graph Summary	Provides a graphical summary of the state of the batch processing.
Data Summary	Displays the totals by processing category. As you process items, the numbers change and you can monitor this tab to verify the result. For example, if you enrich a record to the point where it can pass the quality threshold for import into the PIM, it will move from the Items for Enrichment category to the Confirmed New Review category.
Items for Enrichment	If a source record is not a duplicate and does not meet the Quality Index threshold, then it is displayed on this tab for you to enrich the records so that they may be of the necessary completeness to load into the PIM.
Dups Within Batch	The process checks for duplicates within the original source batch and presents them to you to determine what to do with them.
Match Against PIM	The process checks for the source with the records in the PIM using the Semantic index cache to determine if the source is a duplicate to an existing record in the PIM.
Exceptions	If the record falls below a Quality Index, (nothing is recognized) then it becomes an exception.
Ready for Load	Fully complaint, standardized, and enriched records ready to be imported into the PIM.
Release Batch	Provides a mechanism to change the Oracle batch from "Pending" to "Active", allowing you to review the completed changes.

The following sections describe how to use each of these tabs.

Reviewing Items for Enrichment

The Governance Studio **Items for Enrichment** tab with AutoSuggest output is identified by a light bulb icon to the left of the tab name. Data in these tabs may access the Governance Studio AutoSuggest feature that automatically predicts attribute values that may have been missed due to misspellings and abbreviations or missing grammar. When this tab is not empty and there are suggestions available, the **AutoSuggest** light bulb button in the toolbar will be active; if no suggestions were found this button bar is dimmed.

After clicking on an **AutoSuggest** output tab, a list of rows of data that were designated for output by the respective output step in the DSA is displayed. To view suggestions, click the **AutoSuggest** light bulb button. Suggestions are now highlighted in green.

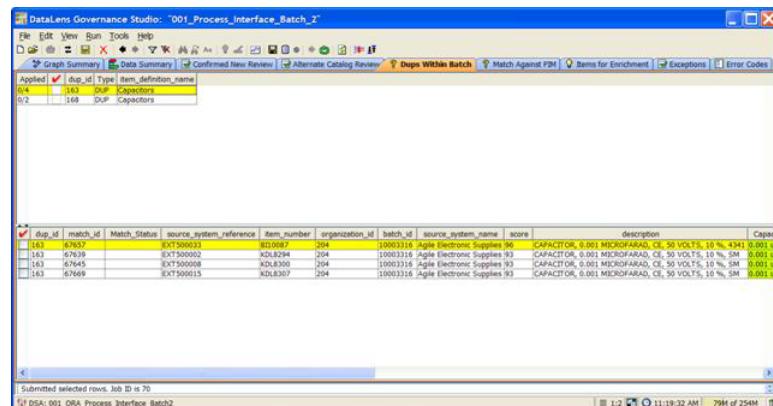
Several operations are allowed in the AutoSuggest table to process your data further and make it easy to edit, move, copy, or accept suggestions. In addition to the normal table functions available to output tables, an AutoSuggest table allows you to accept or reject suggestions by double-clicking over them. If you double-click a suggestion then the cell is highlighted in pink showing that the attribute has been rejected.

When you have completed reviewing the suggestions by rejecting the bad ones, keeping the good ones and editing the cells to add (enrich) the data, you may select the rows that you want to reprocess by clicking on the row then click **Re-Run**. After enriching, the item will follow the standard process and end up in one of the tabs depending on the outcome (for example, If the enrichment was sufficient then it will be of high enough quality to appear in the Exceptions tab).

1. Select the **Items for Enrichment** tab in the Governance Studio.
2. Make the process selections as previously described in this section.
3. Click the **Re-Run** button to process the selected rows.
4. Confirm that the enriched row appears in one of the other tabs. If it meets the quality standards and completeness, it will appear in the **Exceptions** tab; otherwise, it may appear **Items for Enrichment** tab or **Match Against PIM** tab.

Reviewing Duplicates Within the Batch

The Governance Studio **Dups Within Batch** tab uses a split screen function that shows a set of record groups (rows) in the top pane, which are considered duplicates within the import batch. After a row in the top pane has been selected, the system presents the corresponding matched candidates for that row on the bottom pane.



The duplicate rows are showed in the bottom pane. The system also gives Data Stewards color coding to highlight key attributes participating in the match. The system will color the attributes based on the type of match rule that has been triggered on the attribute. Following is the breakdown of the color coding:

- **Green Attributes:** Denotes attributes that match to the parent row and that these attributes were set to required in the item specific match rules.
- **Blue Attributes:** Denotes attributes that match to the parent row and that were set to participating but not required in the item specific match rules.
- **Blank and un-highlighted:** Indicates that the matched row did not contain a value for that particular attribute and therefore that attribute did not participate in the match score.
- **Populated and un-highlighted:** Indicates that the matched row contains a value for that attribute but that the attribute value for the matched row did not match the attribute value for the parent row.

The bottom child pane view allows you to choose either a single override row or create a combined value (blended) row by choosing a primary row with values from other rows. This survivorship process ends up with the one row or combined row that represents the set of values to be input into the system as the master record. The following steps should be used to create the master record:

1. Select the override row by right-clicking on the row and selecting **Create Override Row**. After the selection, the following will occur:
 - a. The override row will turn orange and the new master row will appear at the bottom on the set in red with a Match Status of "MO" (Manual Override). The override row check box will be selected and disabled.
 - b. All other rows will be automatically selected, but available to uncheck to exclude from processing.

dup_id	match_id	Match_Status	source_system_reference	item_number	organization_id	batch_id	source_system_name	score	description	Capacitor
163	67657		EXT560033	8110987	204	10003316	Agile Electronic Supplies 96	0.001	CAPACITOR, 0.001 MICROFARAD, CE, 50 VOLTS, 10 %, 4341	0.001 uF
163	67639		EXT560092	KD8294	204	10003316	Agile Electronic Supplies 93	0.001	CAPACITOR, 0.001 MICROFARAD, CE, 50 VOLTS, 10 %, SM	0.001 uF
163	67645		EXT560008	KD8300	204	10003316	Agile Electronic Supplies 93	0.001	CAPACITOR, 0.001 MICROFARAD, CE, 50 VOLTS, 10 %, SM	0.001 uF
163	67669		EXT560015	KD8307	204	10003316	Agile Electronic Supplies 93	0.001	CAPACITOR, 0.001 MICROFARAD, CE, 50 VOLTS, 10 %, SM	0.001 uF
-	4341	MO	EXT560033	8110987	204	10003316	Agile Electronic Supplies 96	0.001	CAPACITOR, 0.001 MICROFARAD, CE, 50 VOLTS, 10 %, 4341	0.001 uF

2. Optionally, right-click an individual cell from any of the other rows to create an override cell by right-clicking from the desired cell and selecting "Set Override Cell". The override cell will turn orange and that row will be automatically selected (if unselected) and disabled while the cell in the original override row will be deselected and return to the original color. Finally, the value will appear in the master row.

Note: If you want to enter a value, you must first enter the value prior to selecting that cell as an override cell; otherwise the change will *not* be reflected in the master row.

Capacitance	Dielectric	Voltage	Tolerance1	Capacitor_package_size
0.001 uF	CE	50 VLT	10 %	4341
0.001 uF	CE	50 VLT	20 %	
0.001 uF	CE	50 VLT	10 %	
0.001 uF	CE	50 VLT	10 %	
0.001 uF	CE	50 VLT	20 %	4341

You can also change the override cell selection by right-clicking an orange highlighted cell and selecting another cell using the **Set Override Cell** option. You can select an unlimited number of override cells to create the blended record. To remove an

override cell, you need to right-click the cell from the red row and select **Set Override Cell**. You can also remove the override row selections by right-clicking any row and selecting **Remove Override Row**. Selecting **Remove Override Row**, resets the entire duplicate set and returns the set to the original state.

Once you complete the selection process, click the **Re-Run** button to reprocess the row(s).

Expected Result

The Override row (orange / red row) is reprocessed as a new row and could end up back in any of the tabs, but it is very unlikely that it will end up in the **Enrich** or **Exception** tabs because in order to participate in the Dedup process, the QI needed to be above the threshold. The other selected rows in the set, which Match Status is not changed by you, should be updated in the interface tables with a match status of "Ignore".

You may also override the system by entering a match status and sending the rows to be reprocessed. They may be one of the following:

- **Confirmed New:** After reviewing the information, you may conclude that although the system thinks these are duplicates, they are not. The row(s) will be included as new items in the PIM.
- **Unconfirmed:** (default value) - You must confirm the match status in order to import the item.
- **Ignore / Blank:** Temporarily hold this item from import. The next time the same item data is uploaded within a batch, it appears in the **Excluded** tab for that batch.
- **Exclude:** The row(s) will *not* be included as new items in the PIM and will be moved to an excluded region so that if the same item data row is loaded, it will be automatically moved to the **Excluded** tab.
- **Reprocess:** Allow you to update the data so that the row can be reprocessed and removed as a duplicate.

Once you complete the selection process, click the **Re-Run** button to process the row(s). The only instance that the data in the PIM will actually be enriched is when you select the "Confirmed New" Match Status. The system will ignore all other rows that you enriched (for example, unselected, and selected and any match type including blank).

Use the following processing steps:

1. Select the **Dups Within Batch** tab in the Governance Studio.
2. Make the process selections as described previously in this section.
3. Click **Re-run** to process the selected rows.
4. For duplicate processing, confirm that the override row appears in one of the **Process Interface Batch** tabs. If it meets the quality standards and completeness, it will appear in the **Confirmed New Review** tab; otherwise, it may appear in the **Items for Enrichment** tab or **Match Against PIM** tab.
5. For override processing, once the processing is complete, you must run Release Batch process to reset the batch status from "Pending" to "Active" to review and confirm the changes made during this process. The job uses the batch id as input.
6. Confirm that the data is set correctly for the selected row(s) by going back into batch in the Oracle Item Import Workbench (Assumes batch set back to Active to review - see note in Introduction section).

- a. Search for the batch.
- b. Select **Update** to review the batch.
- c. Select (for example, **SemanticModel (Capacitors)**) from **Display Format** list, and then click **Go**.
- d. Select **Apply**.
- e. Use the **Previous** and **Next** buttons to review the items for accuracy.

The override row is present on one of Process Interface Batch Governance Studio job tabs or for overridden rows in the Oracle Batch with the correct status.

Reviewing Matches Against PIM

The Governance Studio **Match Against PIM** tab uses a split screen function that shows a set of record groups (rows) in the top pane from the incoming records which are functionally equivalent (duplicate) with record(s) in the Product Data Hub. It allows the system to identify these incoming records as a cross-reference to an existing Product Data Hub record. Once a row is selected from the top pane, the system highlights the corresponding matched candidates for that row on the bottom pane. You select the row in the bottom pane that is the preferred match for the cross-reference.

Row	Match Score	SKU	PIM Description	Capacitance	Defects
0/1	99	V110088	CAPACITOR, 17.5 MICROFARAD, AL, 10 VOLTS, 2 %, 1055, 180000011996, X70, 50 C, 115 C, LOWZ, 125500000 OHM, RD, 32.5 uF	AL	
0/2	99	V110046	CAPACITOR, 17.5 MICROFARAD, AL, 10 VOLTS, 2 %, 4141, 19.5MMX19MM, Y5V, 50 C, 105 C, LOWZ, 125500000 OHM, RD, 32.5 uF	AL	
0/3	99	V110057	CAPACITOR, 17.5 MICROFARAD, AL, 10 VOLTS, 2 %, 305, 22MMX22MM, Y5V, 55 C, 110 C, LOWZ, 125500000 OHM, RD, 32.5 uF	AL	

The matched row(s) are showed in the bottom pane. The system also gives Data Stewards color-coding to highlight key attributes participating in the match. The system will color the attributes based on the type of match rule that has been triggered on the attribute. Below is the breakdown of the color-coding:

- **Green Attributes:** Denotes attributes that match to the parent row and that these attributes were set to required in the item specific match rules.
- **Blue Attributes:** Denotes attributes that match to the parent row and that were set to participating but not required in the item specific match rules.
- **Blank and un-highlighted:** Indicates that the matched row did not contain a value for that particular attribute and therefore that attribute did not participate in the match score.
- **Populated and un-highlighted:** Indicates that the matched row contains a value for that attribute but that the attribute value for the matched row did not match the attribute value for the parent row.

You select a row in the top pane to see a set of candidate row(s) in the bottom pane to create a cross reference row. Once the cross reference row is selected, you can send the cross reference row to the Oracle Interface Table.

Note: The ITUI (Interface Table Unique) ID / Match_Id relationship is used for the cross reference. The Match Status is set to "Confirmed Match" which denotes a cross reference to an existing item in the PIM.

The system will automatically enter the PIMDH Item number (for example, VI10585) in the PIMDH Item field and will set the confirm status to "CM" (Confirmed Match).

Once you completes the selection process, you click the **Re-Run** button to process the row(s).

The cross reference appears in the batch.

Note: The cross reference row(s) are removed from the list and the only way to confirm is by reviewing the Oracle batch.

Reviewing Exceptions

The Governance Studio **Exceptions** tab presents you with items that were unrecognized (did not meet the quality threshold). You has the opportunity to review and / or edit the description then make a decision about what to do with the item.

1. Select the **Exceptions** tab in the Governance Studio.
2. Make a Match Status selection from the following set of selections:

IGNORE	Ignore the row
EXCLUDE	Exclude the row
CONFIRMED NEW	Confirm new row (allow into PIM)
UNCONFIRMED	Unconfirmed row that must be manually reviewed by you in the Oracle Batch
REPROCESS	Reprocess the row

3. Click the **Re-Run** button to process the selected rows.
4. Confirm that the row appears in the **Process Interface Batch** tab with the correct status or in one of the **Process Interface Batch** tabs if reprocessed. If the meets the quality standards and completeness, it will appear in the **Confirmed New Review** tab; otherwise, it may appear in either the **Items for Enrichment** tab or **Match Against PIM** tab.

Reviewing Ready for Load

The Governance Studio **Ready for Load** tab provides a view of the fully complaint, standardized and enriched records that met the quality requirements and are "import ready" and will be moved into the PIM through the interface table (batch) process.

Once you have reviewed and handled all of the items on the other tabs, bringing the totals to zero, the remainder will appear on the **Confirmed New Review** tab. You select one or more rows to complete the process, which updates the Interface Batch with this set of standardized high quality data, using the Batch Id and the ITUI (Interface Table Unique Id) as the key as follows:

1. In the Governance Studio, select the **Ready for Load** tab.
2. Select one from all of the rows in the tab.

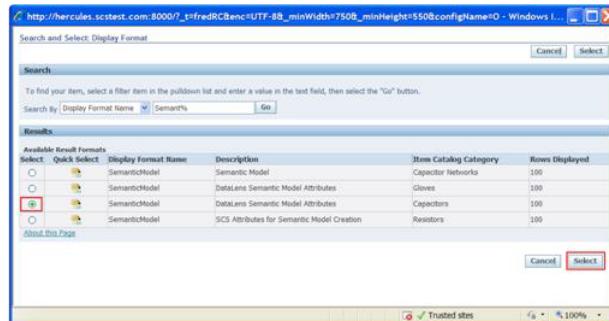
	interface_table_unique_id	organization_id	source_system
✓	67643	204	Agile Electronic
✓	67644	204	Agile Electronic
✓	67647	204	Agile Electronic
✓	67656	204	Agile Electronic
✓	67663	204	Agile Electronic
✓	67665	204	Agile Electronic
✓	67670	204	Agile Electronic

3. Click the **Apply Checked Rows** button to process the selected rows.

The selected rows turn blue indicating that the rows have been processed and that the rows are now unavailable for further processing.

4. Once the processing is complete, run the Release Batch process to reset the batch status from "Pending" to "Active" then review and confirm the changes made during this process. The job uses the batch id as input.
5. Confirm that the data is set correctly for the selected row(s) by going back into batch in the Oracle Item Import Workbench (assumes batch set back to Active to review).
 - a. Search for the batch.
 - b. Select **Update** to review the batch.
 - c. Select (for example, **SemanticModel (Capacitors)**) from the **Display Format** list.

Note: If this does not exist, select **More** and search for **SemanticModel**. Select the correct **SemanticModel** (in the case where there are multiple) and press **Select**.



It then appears in the list as follows:



6. Select **Go** to apply it.



7. Select **Previous** or **Next** to review the items for correctness



The Standardized items are in place within the Oracle Interface Table for the selected rows from the Governance Studio job.

Reviewing the Release Batch

The Governance Studio **Release Batch** tab allows you to reset the batch from "Pending" to "Active" so the Oracle batch can be reviewed and imported. It also inactivates the current Governance Studio job to save the contents and prevent changes.

1. From the Governance Studio, select the **Release Batch** tab.
2. Click on the row.
3. Click on the **ReRun** button to process the selected row.

It will complete the current batch in the Governance Studio and set the project to read only (disabling most of the interface functions) and set from "Pending" to "Active".

To reactive the batch, from the File menu, select **New Project From** to reopen and process using a version number and the batch number as input.

Installing the Client Software

Enterprise DQ for Product uses Java Web Start to initially install and maintain the current version of the software on your client desktop. The process requires you to access the Oracle DataLens Server to initiate the connection and download the software.

The Enterprise DQ for Product client applications downloaded and installed using Java Web Start by browsing to the installation page for your Oracle DataLens Server as follows:

1. Ensure that you have the Java SE Runtime Environment (JRE) 6 Update 21 installed. You can download the JRE and obtain the installation instructions by browsing to:

<http://www.oracle.com/technetwork/java/javase/downloads/index.html>

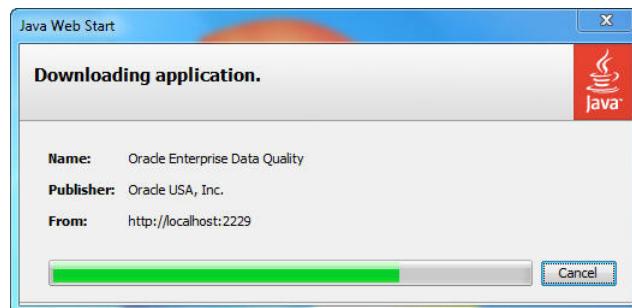
2. Start Microsoft Internet Explorer.
3. Initiate a connection and download the client software by browsing to:

`http://server:2229/datalens/datalens.`

Where *server* is the hostname of the Oracle DataLens Server.

Note: If you have setup a different port number for your application server other than 2229, you must use that port number in the following URL when browsing to the Oracle DataLens Server to download the client applications.

The application download and verification begins.



Note: If you receive a **File Download** message indicating that the . file is not associated with a program, you do not have the supported JRE installed. Click **Cancel** and return to Step

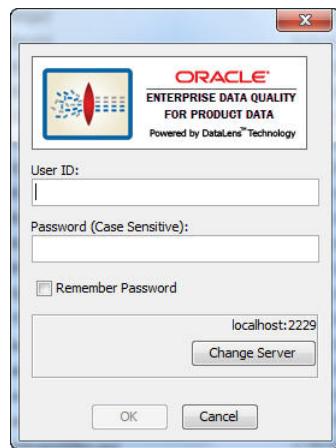
After the verification completes, the installation begins. Enterprise DQ for Product files are digitally signed by a trusted source so the following security warning is displayed:



Tip: To avoid this security dialog in the future, select the **Always trust content from this publisher** check box.

4. Click **Run** to continue and complete the installation.

The Oracle Enterprise Data Quality for Product Data log in dialog is displayed.



Creating R12 PIM Connector Users

This appendix provides a basic outline for creating R12 PIM Connector users in EBS for use by Enterprise DQ for Product client applications and R12 PIM Connector batch processing.

The process for setting up the required roles and users and updating the profile options in EBS is as follows:

- Create two new roles, one role to be used by DLSUSER and one role to be used by DLSMANAGER. These two new roles could be the same name as the user names.
- Add the required privileges to each of the two new roles.
- Create the two new users of DLSUSER and DLSMANAGER, assigning the users the above roles as appropriate.

Create the necessary roles and users in EBS:

1. Log in to the EBS as a System Administrator.
2. Click **System Administrator**.
3. Create two new roles named, `dlsuser` and `dlsmanager`, with the following privileges:
 - Add/Delete Approved Manufacturer Parts Item
 - Add/Delete Customer Item Cross References
 - Add/Delete Item Cross References
 - Add/Delete Related Items
 - Add/Update Item Revision
 - Change Item Status
 - Create Item Supplier Assignment
 - Create/Edit Item Organization Assignments
 - Edit Item
 - Edit Item Catalog Assignments
 - Edit Key Metrics
 - Edit Source System Item Cross Reference
 - View Approved Manufacturer Parts Item
 - View Customer Item Cross References
 - View Item

- View Item/Item revision lifecycle
- View Item Catalog Assignments
- View Item Cross References
- View Item Organization Assignments
- View Item Revision List
- View Item Supplier Assignment
- View Key Metrics
- View Related Items

4. Create the following two required users:

- `dlsuser` - The user assigned to the batches created by the Enterprise DQ for Product R12 PIM Connector.
- `dlsmanager` - The user who creates the batches with the Enterprise DQ for Product R12 PIM Connector.

5. Assign each of these new users the responsibility that uses the roles, `dlsuser` and `dlsmanager`, created in step 2.

6. Assign each user to an organization that will be used. For example, Vision Operations.

7. Add Cross Reference Privileges to the organization by adding a new role called Item Author to the organization for all users.

8. By default, the profile options for `DLS_PIMMGR_USER` and `DLS_EGO_IMPORT_BATCH_ASSIGNEE` are assigned to the user operations. Change these profile options to use `dlsuser` and `dlsmanager` respectively.