Oracle® Enterprise Data Quality for Product Data

R12 PIM Connector API Interface Guide

Release 5.6.2

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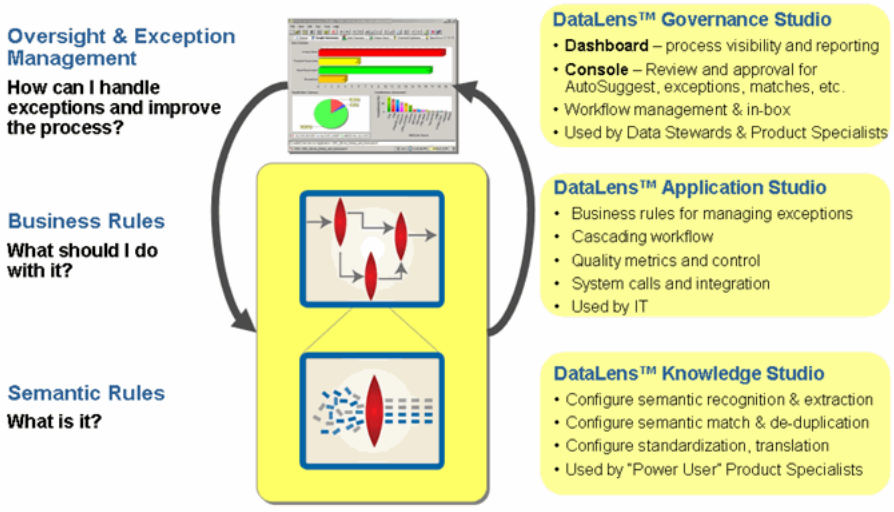
This document describes the Oracle Enterprise Data Quality for Product Data R12 Product Information Management (PIM) Connector application programming interface (API) and contains the following:

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 R12 PIM Connector API provides data objects to facilitate the interaction of Enterprise DQ for Product (EDQP) Data Service Applications (DSAs) with PIM data

structures. The R12 PIM Connector API data objects are comprised of database packages, views, and tables, which are described in the following sections.

API Database Packages

The R12 PIM Connector API database packages are described in the following sections.

DLS_CONNECTOR_PUB

Public interface functions and procedures that can be linked to from external processes as follows:

Name	Parameters	Description
`getversion`	None	Function that returns a static string containing the version of the installed R12 PIM Connector. It can be called from SQL*Plus or through a Java Database Connectivity connected program. For example, the following SQL*Plus `select` statement could be used to obtain the version: `SQL> select dls_connector_ pub.getversion from dual;`
`ProduceAutoBuild`	`p_jobid NUMBER` `p_itemclass VARCHAR2`	Procedure and function that takes a DSA `jobid` and the name of the top-level Item Catalog Category (ICC) as parameters, extracts the passed ICC and all descendants. All attributes and distinct attribute values that have been associated with the **SemanticModel Display Format** are also extracted. All extracted data is inserted into the `DLS_ATTRIBUTE_INFO` table keyed by `jobid`.
`ProduceSampleData`	`p_jobid NUMBER` `p_itemclass VARCHAR2`	Procedure and function that takes a DSA `jobid` and the name of the top-level ICC as parameters, extracts the passed ICC, all descendants, and a random sampling of production item descriptions. The number of rows extracted per ICC is controlled by the **Profile Option**, **DLS_AUTOBUILD_ SAMPLE_SIZE**. The extracted data is then inserted into the table, `DLS_ITEM_SAMPLE_ DATA`.

Name	Parameters	Description
ProductionPull	p_jobid NUMBER p_itemclass VARCHAR2	Procedure and function that takes a DSA jobid and the name of the top-level ICC as parameters, extracts the passed ICC and all descendants, and all production item data. The columns extracted include: Inventory_Item_ID, Organization_Name, Description, and all attributes associated with the ICCs **Display Format** concatenated into a comma-delimited string. The extracted data is inserted into the DLS_PRODUCTION_PULL table.
PrepBatch	P_jobid NUMBER p_batchid INTEGER	Procedure and function that takes a DSA jobid and a PIM WorkBench batch id then calls another public procedure or function to prepare the batch for viewing and manipulation in the WorkBench.
UpdateItem	p_jobid NUMBER p_itemxml CLOB	Procedure that takes a DSA jobid key and the XML output from the **Oracle AU XML Parameterizer** DSA widget as input. Each item passed is then updated back into the interface tables.
InsertItem	p_jobid NUMBER p_itemxml CLOB	Procedure that takes a DSA jobid key and the XML output from the **Oracle AU XML Parameterizer** DSA widget as input. Each item passed is then inserted into the interface tables.
CreateProductionBatch	p_jobid NUMBER p_itemclass VARCHAR2 p_attrtype VARCHAR2	Procedure and function that takes a DSA jobid and the name of the top-level ICC as parameters, extracts the passed in ICC, and all attributes associated with the ICCs **SemanticModel Display Format**. PIM Workbench batches are created and the extracted data is inserted into the interface tables. The number of records per batch is controlled by the **Profile Option**, **DLS_EGO_IMPORT_BATCH_SIZE**.
ImportBatch	p_jobid NUMBER p_batchid INTEGER	Procedure and function that takes a DSA jobid and a PIM Workbench batch ID as input, and submits a concurrent request to import the batch into production.
ImportJobBatchs	p_jobid NUMBER	Procedure and function that takes a DSA jobid and invokes the batch import process.

Name	Parameters	Description
UpdateBatchStatus	p_jobid NUMBER p_batchid NUMBER p_batchstatus VARCHAR2	Function that takes a DSA jobid and a PIM Workbench batch ID as input, and checks the status of the import batch into production job.
ConcatProdAttributes	p_catalogid INTEGER p_inventoryid INTEGER p_orgid VARCHAR2	Function that retrieves and returns a comma-delimited list of the passed in item's production attribute values. Only the semantic attributes are extracted by this function.
ConcatIntrfAttributes	p_itemclassid INTEGER p_batchid NUMBER p_transactionid VARCHAR2	Function that retrieves and returns a comma-delimited list of the passed in item's attribute values that are stored in the interface tables. Only the semantic attributes are extracted by this function.
FinalizeLoad	p_jobid INTEGER p_loadtype DEFAULT g_item_batch_type	Procedure and function that finalizes an external data load by creating *n* of batches, and then moving the newly loaded items into the created batch. The **Profile Option**, **DLS_EGO_IMPORT_BATCH_SIZE**, is used to control the number of records inserted into a batch.

DLS_CONNECTOR_PVT

Private implementation functions and procedures that should not be linked to from external processes because they support the DLS_CONNECTOR_PUB functions and procedures.

API Database Tables

The following tables are created for use by the R12 PIM Connector API database objects:

Table Name	Description
dls_alt_item_categories	Global temporary table used to build Alternate Catalog records to be inserted or updated into the MTL_ITEM_CATEGORIES_INTERFACE interface table.
dls_attribute_info	Used to return data from the ProduceAutobuild procedure.
dls_attr_discovery	A template table and can be removed.
dls_attr_info	A template table and can be removed.
dls_extract_attributes	A template table and can be remove.d.
dls_item_sample_data	Used to return sample data from the ProduceSampleData procedure.
dls_job_batches	Stores created batch ID's by jobid.

Table Name	Description
dls_job_messages	Stores all unexpected messages generated by the connector keyed by jobid.
dls_production_pull	Stores items extracted using the ProductionPull procedure.
dls_semantic_cache	iA template table and can be removed.
dls_supported_primary_attrs	A template table and can be removed.
dls_usr_attr_values	Global temporary table used to build user defined attribute records to be inserted or updated into the EGO_ITM_USR_ATTR_INTRFC interface table.

API Database Views

The following views are created by the R12 PIM Connector API database objects:

View Name	Description
DLS_INTERFACE_PULL_V	Returns all columns in the MTL_SYSTEM_ITEMS_INTERFACE interface table and an additional column that contains the semantic attribute names and values concatenated together from the EGO_ITM_USR_ATTR_INTRFC interface table.
DLS_PRODUCTION_PULL_V	Returns all columns in the MTL_SYSTEM_ITEMS_B interface table and an additional column containing the semantic attribute names and values concatenated together from the production EGO interface tables.

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 User's Guide* provides highlights of the core process steps and features of Enterprise DQ for Product R12 PIM Connector.
- 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

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