Oracle® Argus Mart Installation and Administration Guide





Oracle Argus Mart Installation and Administration Guide, Release 8.2.1

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Preface

This preface contains the following sections:

- Intended Audience
- Documentation accessibility
- Related resources
- Access to Oracle Support

 To receive support assistance, determine whether your organization is a cloud or on-premises customer. If you're not sure, use Support Cloud.

Intended Audience

Oracle Argus Mart is a data source software product that can be used for analysis and reporting in medical product safety and pharmacovigilance. The primary data for Oracle Argus Mart are the adverse event cases managed by Oracle Argus Safety.

Oracle Argus Mart product consists of:

- A pre-defined Oracle Argus Mart data model containing Signal and Reporting tables.
- Pre-built Oracle Data Integrator based interfaces that are linked to Oracle PL/SQL based packages.

Oracle Argus Safety serves as the primary source of data for Oracle Argus Mart. Oracle Data Integrator extracts the data from Oracle Argus Safety database, transforms, and loads the data into Oracle Argus Mart. When the Oracle Data Integrator tool loads the data into Oracle Argus Mart, it is available for Oracle Argus Mart users for querying, and reporting activities.

Documentation accessibility

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

Related resources

All documentation and other supporting materials are available on the Oracle Help Center.



Access to Oracle Support

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Part I

Installation

This part of the guide introduces you with the Oracle Argus Mart software product. In addition, it also gives you an outline of all the tasks that are required to install and configure Oracle Argus Mart, and explains the organization of these tasks in this guide. The Oracle Argus Mart is referred to as AM and Oracle Data Integrator as ODI in all the later sections of the guide.

For more information, see:

- Install the Oracle Argus Mart Application
- Create the Oracle Argus Mart Database Structure
- Create Multiple Enterprises in Multi-tenant Environment
- Configure Oracle Data Integrator Settings
- Configure the Oracle Argus Mart Application
- Upgrade Oracle Argus Mart
- · Extract, Transform, and Load Data
- Uninstall the Oracle Argus Mart Application



1

Install the Oracle Argus Mart Application

This chapter explains how to use the installation wizard to install Oracle Argus Mart, including Oracle Data Integrator Repository and the Schema Creation Tool.

For more information, see:

- · Before Installing the Oracle Argus Mart Application
- Install the Oracle Argus Mart Components

Before Installing the Oracle Argus Mart Application

- Verify that the Oracle Argus Mart database instance has been created and is running. In addition, verify that the database has been created using the character set of your Oracle Argus Safety database.
- You must install the required software components, as mentioned in the following table:

Table 1-1 Oracle Argus Mart Software Requirements

Specification	Oracle Data Integrator Server	Database	DBInstaller	Client
Operating System	As certified by the ODI	As certified by the ODI (Supports bothCDB-PDB/Non CDB)	Microsoft Windows Server 2012 Standard Microsoft Windows Server 2012 R2 Standard	Windows 2016 Standard Windows 10 Windows 8.1 Windows 7 (Both 32 and 64 bit)
Oracle Database	NA	Oracle RAC Exadata 18c and 12c R1 (with 12.1.0.2 or 12.2.0.1) Oracle 18c and 12c (12.1.0.2 or 12.2.0.1) (Standard Edition 2 (SE2)/Enterprise Edition) Note: Oracle database Standard Edition 2 (SE2) is supported for single tenant deployment only.	NA	NA
Oracle Data Integrator (ODI)	12.2.1.3	NA		NA

Note:

Oracle Client Patch required for the Schema Creation Tool

- Download the patch 21821214: WINDOWS DB BUNDLE PATCH 12.1.0.2 from the Oracle Support.
- 2. Install the patch, and apply the following workaround:
 - a. Set the oracle_home as your client home location. For example:

SET ORACLE_HOME=C:\app\client32\product\12.1.0\client_1

- i. On the client machine, go to %oracle home%\bin\
- ii. From
 \p21821214_121020_WINNT\21821214\files\bin\,
 copy the file oranfsodm12.dll, and paste it under
 %oracle_home%\bin
- b. Run sqlldr help=y or sqlldr.exe.
- Make sure that you have installed the following software on the machine where Oracle Argus Mart is being installed:
 - Microsoft .NET 4.7.2 Framework
 - Oracle Client 18c, 12.1.0.2, or 12.2.0.1 (Administrator Installation type)
 Only one version of Oracle Client should be installed on the server. Oracle
 Argus Mart Installer will not work in case there are multiple versions of Oracle
 Client are installed on the same machine.

Install the Oracle Argus Mart Components

To run the installation wizard and install the Oracle Argus Mart components:

- Log in to the Oracle Argus Mart Server as a user with administrator privileges.
- Download the Oracle Argus Mart software from Oracle E-delivery and copy the software to the Argus Mart Server.
- 3. Click setup.exe.

The Welcome screen of the installation wizard appears with the following options:

- About Oracle Universal Installer—Specifies information about the Oracle Universal Installer.
- b. Installed Products—Displays the list of installed products.
- On the Welcome screen, click Next.
 The Specify Home Details screen appears.
- 5. In the **Name** field, enter the name of the new or existing Oracle Argus Mart installation directory.
- 6. In the **Path** field, enter the location of the directory specified in the previous step.
 - To install Oracle Argus Mart into the default folder, click Next.
 - To install Oracle Argus Mart into a different folder, click Browse, select another folder, and click Next.



The Oracle Home Location screen appears.

7. Click **Browse**, and navigate to the location of Oracle Home that identifies the TNSNAMES.ORA file. For example:

C:\app\product\11.2.0\client_1

8. Click Next.

The Database Details screen appears.

- 9. Enter the following parameters:
 - In the AM Database Server field, enter name or IP address.
 - In the **AM Database Instance** field, enter the database instance name.
 - In the AM Database Port field, enter the database listener port number.

When the Installation process is complete, you may validate these database inputs by navigating to the TNSNAMES.ORA file, saved at the following path:

<ORACLE_HOME>\NETWORK\ADMIN

10. Click Next.

The Summary screen appears.

11. Click **Install** to start the installation.

A message appears — Oracle Argus Mart is configuring your new software.

When installation is complete, the End Of Installation screen appears.

- **12.** To verify the successful installation of Argus Mart, click **Installed Products**. The Inventory screen appears.
- **13.** Navigate to **Contents** > **Independent Products**. Oracle Argus Mart appears in the list of products.
- 14. Click Close.
- 15. Click Exit.

A confirmation dialog box appears.

16. Click **Yes** to close the Installer wizard screen.



2

Create the Oracle Argus Mart Database Structure

The Oracle Argus Mart is now installed in silent-mode through Liquibase.

Liquibase is a refactoring tool that enables Oracle Argus Mart to be in synchronization with the closest major release, and subsequently upgrades the product to the required minor versions of the product

The Oracle Argus Mart Liquibase install enables you to create the Oracle Argus Mart schema structure. It creates a link between the safety database and the new Oracle Argus Mart database. The Extract, Transform, and Load (ETL) process uses this link to transfer data from source (Oracle Argus Safety) database to the Oracle Argus Mart database. When transferred, this data can be used for querying and reporting purposes.

For more information, see:

- Overview of the dbinstaller.properties file
- Install Oracle Argus Mart
- Create Database Links
- · Create Oracle Argus Mart Read-only User

Overview of the dbinstaller.properties file

Open the DBInstaller\dbinstaller.properties file, and view or modify the following parameters to make sure that Liquibase runs properly.

Parameter	Description	Modify	Default or Sample Value
db_connect_string	Jdbc Url to connect to the Target Database	Yes	<pre>url= <host>:<port>/ <service name=""></service></port></host></pre>
dba_User	Name of the Target Database DBA user	Yes	dba_User=am_dba_use r
logLevel	Log level setting related to liquibase for smooth run.	Yes	logLevel=info
	Possible values:		
	• DEBUG		
	• INFO		
appSchema_sm_mart	Oracle Argus Mart schema Owner name and password	No	<pre>appSchema_mart_user =am_mart/pwd</pre>
appSchema_sm_stage	Oracle Argus Mart Staging schema Owner	No	appSchema_sm_stage= am_stage



Parameter	Description	Modify	Default or Sample Value
appSchema_sm_app	Oracle Argus Mart Application schema Owner name and password	No	appSchema_sm_app=am _app/pwd
appSchema_etl_user	Oracle Argus Mart Etl User and password	No	appSchema_etl_user= am_etl/pwd
appSchema_rls_user	Oracle Argus Mart VPD schema Owner name and password	No	appSchema_rls_user= am_vpd/pwd
appSchema_bi_user	Oracle Argus Mart BI schema Owner name and password	No	appSchema_bi_user=a m_bi/pwd
#Mart Database Role	Admin role given to	Yes	am_vpd_admin_role=A
am_vpd_admin_role	AM_ETL_USER		M_VPD_ADMIN_ROLE
Safety_db	Oracle Argus Safety Database TNS	Yes	safety_db=SAF821DB or
			<pre>safety_db= SAF821DB.US.EXAMPLE .COM</pre>
Safety_RO_User	Oracle Argus Mart read-only user name in Argus Safety	Yes	Safety_RO_User=am_r o_user
#Datafile directory location	Location of the default datafiles directory.	Yes	default_datafile_de stination=c:/app/ oradata/AM821DB
#Argus Mart > Stage User Datafiles	Location of Oracle Argus Mart stage user datafiles.	Yes	 stage_data_ts_da tafile=C:\app\or adata\AM81MTF2\A MSTAGE_DATA_01 .DBF stage_ind_ts_dat afile=C:\app\ora
			<pre>data\AM81MTF2\AM _STAGE_INDEX_01. DBF</pre>
			 stage_lob_ts_dat afile=C:\app\ora data\AM81MTF2\AM _STAGE_LOB_01.DB F



Parameter	Description	Modify	Default or Sample Value
#Argus Mart > Mart User Datafiles	Location of Oracle Argus Mart > Mart user datafiles.	Yes	 mart_data_ts_dat afile=C:\app\ora data\AM81MTF2\AM _MART_DATA_01.DB F mart_ind_ts_data file=C:\app\orad ata\AM81MTF2\AM_ MART_INDEX_01.DB F mart_lob_ts_data file=C:\app\orad ata\AM81MTF2\AM_ MART_LOB_01.DBF
#Argus Mart > Apr User Datafiles	Location of Oracle Argus Mart APR user datafiles	Yes	apr_user_data_ts _datafile=C:\app \oradata\AM81MTF 2\AM_APP_DATA_01 .DBF
			apr_user_ind_ts_ datafile=C:\app\ oradata\AM81MTF2 \AM_APP_INDEX_01.DBF
			 apr_user_lob_ts_ datafile=C:\app\ oradata\AM81MTF2 \AM_APP_LOB_01.D BF
Default and Temporary tablespaces	Defines default and temporary tablespace name	No	default_ts=USERStemp_ts=TEMP
Tablespace Encryption	Specifies the logic used for default encryption	Yes	tablespace_encrypti on= <black>or <text>, where blank—no encryption text— like encryption using 'AES256' default storage (encrypt)</text></black>
Tablespace Parameters	Specifies the details of the tablespace	Yes	 tablespace_initial_size= 10M tablespace_autoextend =ON tablespace_next_size=1 0M tablespace_block_size= 8K

Install Oracle Argus Mart

This section gives you a brief introduction about all the options that are available when you run the Oracle Argus Mart Liquibase install.

To start the Oracle Argus Mart installation, execute the following steps:

- Prerequisites
- Create User for the Oracle Argus Safety Database
- Create the Install User in Oracle Argus Mart
- Create a Fresh Oracle Argus Mart Schema
- Validate the Schema

Prerequisites

You must check the following settings before you run the Oracle Argus Mart installation:

- GLOBAL NAMES
 - Value of parameter GLOBAL_NAMES must be same in Oracle Argus Safety and Oracle Argus Mart (either TRUE for both or FALSE for both).
 - If GLOBAL_NAMES is set to TRUE, the Database Name reflected in the table GLOBAL_NAME, must have the same domain for both Oracle Argus Safety and Oracle Argus Mart databases (like, us.example.com).
- NLS_LENGTH_SEMANTICS is set to CHAR for the Oracle Argus Mart Schema Creation Tool to run.
- TNS Name for the Oracle Argus Safety Database must be present in the Oracle Database Client > tnsnames.ora file at the following path:
 ...\network\admin\tnsnames.ora.

Create User for the Oracle Argus Safety Database

- To create the Oracle Argus Safety Read-only user for Oracle Argus Mart, execute the following script from the folder DBInstaller\Utilities\Create_Safety_Ro_User:
 - For Windows—Use the batch script sm_argus_read_only {user}.bat
 - For Linux—Use the shell script sm_argus_read_only{user}
- 2. When prompted, enter the following parameters:
 - Name of the Safety Database instance
 - · Name of DBA User in Safety Database
 - DBA user password in Safety Database
 - Name of the Safety Read Only User to be created for Mart
 - Password of the Safety Read Only User
 - Default Tablespace for Safety Read-only User—For example, USERS
 - Temporary Tablespace for Safety Read-only User—For example, TEMP

The process of creating a Safety Read-only user begins.

When a confirmation message appears, review the log file and check for any errors from:



\DBInstaller\Utilities\Create_Safety_RO_User\am_as_ro_user_MM DDYYYY_HH24MISS.lor

Create the Install User in Oracle Argus Mart



You must execute this script to install Oracle Argus Mart database, even if you are using the SYSTEM user. This script provides additional grants to the existing user.

To create an Install user that has privileges same as the SYSTEM user for installation:

- 1. Execute the following script from the folder DBInstaller\Utilities\Create Dba User:
 - For Windows—Use the batch script am_create_dba_user.bat
 - For Linux—Use the shell script am_create_dba_user
- 2. When prompted, enter the following parameters:
 - Oracle Argus Mart Database instance name
 - SYS or an equivalent SYSDBA user on this database
 - SYSDBA user password
 - Name of the Install User—For example, AM_DBA_USER
 - Install user password

If you provide a non-existing user name, then the script creates this as a new user, and provides the necessary grants to this user.

If you provide an already existing user name, then the script provides the necessary additional grants to the existing user.

When done, a message appears as:

Install User created.

3. Verify the status from the log file.

```
C:\Program Files
(x86)\Oracle\ArgusMart\Database\DBInstaller\Utilities\Create_
Dba_User\am_dba_user_ mmddyyyy_hh24miss.log
```

4. Press Exit.



Note:

For security reasons, Oracle recommends to drop the Install user from the database after successful installation of Oracle Argus Mart as this user will have Install privileges.

To drop this user, connect to the respective database as a privileged user, and execute the following command:

```
DROP USER <INSTALL USER> CASCADE;
```

Create a Fresh Oracle Argus Mart Schema

- 1. Log in to the Oracle Argus Mart Server with administrator privileges.
- 2. Navigate to Programs > Oracle > Argus Mart > Database > DBInstaller.
- 3. Open Dbinstaller\dbinstaller.properties file.
- 4. Modify the following parameters:
 - Mart Database:
 - db_connect_string—connects to the Oracle Argus Mart database.
 Syntax: db_connect_string=<host>:<port>/<service name>

For example:

```
server.us.xx.com:1521/AM821MT
or
server.us.xx.com:1521/AM821MT.us.xx.com
```

- dba_user—specifies the name of the Install user to run Oracle Argus Mart Liquibase Install.
 - See Create the Install User in Oracle Argus Mart.
- default_datafile_directory—default location on the database server, where datafiles will be created.
- Mart User of each schema, where password is optional:
 - appschema_sm_mart
 - appschema_sm_stage
 - appschema_sm_app
 - appschema_etl_user
 - appschema_rls_user
 - appschema_bi_user

Safety Database:

- safety_db—Oracle Argus Safety database instance name
- safety_ro_user—Oracle Argus Mart Read-only user created in Oracle Argus Safety



Note:

For more information on these parameters, see Overview of the dbinstaller.properties file.

It is recommended that you preserve the default names for tablespaces and roles.

- 5. From the command prompt, go to DBInstaller directory.
- 6. Type dbinstaller.bat, and press Enter.

The Liquibase install begins, and the parameters (as entered) appear on the command prompt screen with password in the hidden mode (****).

- 7. Keep monitoring the Liquibase progress by querying the Liquibase Log table mart_dbchangelog, created in AM_MART_USER schema.
- **8.** When the process is complete, a confirmation message appears with the latest version of Oracle Argus Mart.

The following is created as per the values specified in the dbinstaller.properties file:

Users

- AM_MART_USER
- AM_STAGE_USER
- AM APP USER
- AM_ETL_USER
- AM_VPD_USER
- AM BI USER

Roles

AM VPD ADMIN ROLE

Factory Data

- Out of the box Factory data is loaded into tables such as ETL SIGNAL TABLE MAPPING, RM CMN PROFILE GLOBAL, etc.
- Database Links, DB LINK ARGUS:
 - From AM_STAGE_USER of Oracle Argus Martto AS_MART_USER of Safety.

Tablespaces

Note that the tablespace names begin with AM.

The Schema Creation Tool creates the following tablespaces for the Oracle Argus Mart database, when you create Oracle Argus Mart schema:

- AM APP DATA 01
- AM_APP_INDEX_01
- AM_APP_LOB_01
- AM MART DATA 01



- AM_MART_INDEX_01
- AM_MART_LOB_01
- AM_STAGE_DATA_01
- AM_STAGE_INDEX_01
- AM_STAGE_LOB_01

Validate the Schema

- 1. Navigate to **Database > DBInstaller > ValidateSchema**.
- 2. Run the batch script validate_schema.bat.
- **3.** When prompted, enter the following parameters:
 - Enter instance name: <Argus Mart Database Instance name>
 - Enter DBA User Name: <Install user> of Oracle Argus Mart
 - Enter Password for DBA User: <Install user password> in Oracle Argus Mart>
 - Enter Validation Data File Name: The validation control file name: <VLDN_AM_8.2.1.CTL>
 - Enter the destination where the log file is to be placed:
 AM_821\Database\DBInstaller\ValidateSchema>
 - Enter the log file name for recording the schema differences:
 <VLDN_AM_8.2.1_diff.log>
 - Enter Validation Output File Name: The validation output file name to record the validation progress:
 <VLDN_AM_8.2.1_out.log>
- 4. Enter the password for the Oracle Argus Mart SYSTEM or Install user, and press **Enter**.
- **5.** When the validation process is complete, a confirmation message appears.
 - To view any schema discrepancies, such as missing objects, use the Difference Log File.
 - To view the list of errors, which occurred during schema validation, use the Output Log File.

Note:

If Oracle Argus Mart read-only user is created, then ignore the schema validation differences, where

- Objects are RO% views/columns
- GRANTEE is Oracle Argus Mart Read-only user

Create Database Links

You can create database links:



- From Oracle Argus Mart to Oracle Argus Safety (manually)
- From Oracle Argus Mart to Oracle Argus Insight

From Oracle Argus Mart to Oracle Argus Safety (manually)

During Fresh installation, the database link from Oracle Argus Mart to Oracle Argus Safety (DB_LINK_ARGUS) is created as a part of the installation process. However, you can manually recreate the link DB_LINK_ARGUS.

- Navigate to DBInstaller\Utilities\Create_Safety_RO_User:
 - For Windows—execute the batch script sm_create_db_link_argus.bat
 - For Linux—execute the shell script sm_create_db_link_argus
- 2. When prompted, enter the following parameters:
 - Enter the name of the Safety Database instance: Safety Database Instance Name
 - Enter the name of the Mart Database instance: Mart Database Instance Name
 - Enter the name of DBA User in Mart DB: Mart Install user
 - Enter the password for user Mart DBA User: Mart Install user password
 - Enter the name of the Read Only User in Safety DB: Safety Read-only user for Mart
 - Enter the password for Read Only user in Safety: Read-only user password
 - Enter the name of the stage owner in Mart: Stage user of Mart
 - Enter the password for Stage user: Stage user password
- 3. Verify that the script is successfully connected as <Mart Install user/Mart Install user pwd>@<Argus Mart>, and press Enter.

Wait until a message Created <Safety DB Global Name>@DB_LINK_ARGUS appears for Stage user.

The key DB_LINK_ARGUS of RM_CMN_PROFILE_GLOBAL in the Oracle Argus Mart database contains the DB link name.

For example, a DB link is:

```
SAF821DB@DB_LINK_ARGUS or
```

SAF821DB.US.CORP.COM@DB_LINK_ARGUS

- 4. Press Exit to close the Mart to Argus Database Link Creation window.
- 5. Verify the log files for status from:

DBInstaller\Utilities\Create_Safety_RO_User\DB_LINK_ARGUS_MMD DYYYY_HH24MISS.log

From Oracle Argus Mart to Oracle Argus Insight

 When Oracle Argus Insight and Oracle Argus Mart are on different database instances, execute the script from the folder DBInstaller\Utilities\Database_Links\ ai_am_db_link:



- For Windows—execute the batch script am_insight_db_link_setup.bat
- For Linux—execute the shell script am_insight_db_link_setup
- 2. When prompted, enter the following parameters:
 - Enter the Oracle Argus Mart Database Instance name
 - Enter the INSTALL user name in Oracle Argus Mart, like AM_DBA_USER
 - Enter the password for the above user
 - Enter the Oracle Argus Mart application user name, like AM_APP_USER
 - Enter the password for the above user
 - Enter the Oracle Argus Mart Schema user name, like AM MART USER
 - Enter the password for the above user
 - Enter the Oracle Argus Insight Database Name
 - Enter the Oracle Argus Insight Application User name, like APR APP
 - Enter the Password for the above user
 - Enter the Oracle Argus Insight Readonly User name, like APR_LINK_USER
 - Enter the Password for the above user

The process of creating the database links begins.

- 3. The following database links are created (by dropping the existing links if any, with the same name.
 - <Insight DB Global Name>@DB_LINK_INSIGHT—From Oracle Argus Mart AM_APP_USER >Oracle Argus Insight APR_APP
 - The key DB_LINK_INSIGHT of RM_CMN_PROFILE_GLOBAL in the Oracle Argus Mart database is updated with this DB link name.
 - <Insight DB Global Name>@ARGUS_MART_TO_INSIGHT_MART—From
 Oracle Argus Mart AM_MART_USER > Oracle Argus Insight
 APR LINK USER

The key DB_LINK_AM_MART_TO_AI_MART of RM_CMN_PROFILE_GLOBAL in the Oracle Argus Mart database is updated with this DB link name.

4. Review the following log file, and check for any errors, when a confirmation message appears.

\DBInstaller\Utilities\ai_am_db_link\MART_TO_INSIGHT_DB_LINK_MMDDYYYY HH24MISS.log

Create Oracle Argus Mart Read-only User

You can create a read-only schema in Oracle Argus Mart. This schema will have read-only (SELECT) access on all the tables and views of the AM_MART schema. Besides, this read-only schema can also be used for customized reporting purpose.

- 1. Open DBInstaller\Utilities\Create_Mart_Ro_User file.
 - For Windows—execute the batch script am_ ro_user.bat
 - For Linux—execute the shell script am ro user
- 2. When prompted, enter the following parameters:



- Enter TNSNAME Entry to connect to the ARGUS MART Database: <ARGUS MART Database name>
- Enter the name of Custom DBA user in Mart Database: <Argus Mart Install user>
- Enter password for install user in Mart Database: <Install user password>
- Enter Read Only user to be created in Mart Database: <Read-only user to be created in Mart>
- Enter password for Read Only user of Mart Database: <Mart Read-only user password>
- **3.** When the process is complete, press **Exit**.
- **4.** Verify the log files for status information from:

DBInstaller\Utilities\Create_Mart_Ro_User\AM_RO_User_MMDDYYYY _HH24MISS.log



Create Multiple Enterprises in Multi-tenant Environment

When you run ETL to transfer data from the Oracle Argus Safety database to Oracle Argus Mart, a default enterprise is automatically fetched into Oracle Argus Mart. In addition to the default enterprise, Oracle Argus Mart also enables you to create multiple enterprises by using:

- The configuration of default enterprise.
- The configuration of any other existing enterprise in Oracle Argus Safety Database.

This chapter explains the step-by-step procedure that you need to execute to create multiple enterprises in Oracle Argus Mart in a multi-tenant environment.



In case of a Multi-tenant setup, you can create additional enterprises after initial or incremental ETL as well.

To create multiple enterprises in Oracle Argus Mart:

1. Fetch a new enterprise from Oracle Argus Safety to Oracle Argus Mart by executing the script from:

DBInstaller\Utilities\ create_enterprise

- For Windows—execute the batch script am_create_enterprise.bat
- For Linux—execute the shell script am_create_enterprise
- When prompted, enter the following parameters:
 - Enter the Oracle Argus Mart Database instance
 - Enter the name of ETL User in the above instance, like AM_ETL_USER
 - Enter Password for ETL User in the above instance
 - Enter comma separated enterprise short names to be copied over from Oracle Argus Safety, like ENT1, ENT2, ENT3
 - Enter the enterprise short name in Oracle Argus Mart, from which data is to be copied, like ENT_ABBREV

Note that the Default enterprise in Oracle Argus Mart will be used to copy the base values, if no use input is provided.

- 3. Before bringing over the new enterprise to Oracle Argus Mart, the following checks are performed, whether:
 - the set-up is multi-tenant
 - the Factory data is loaded in the specified Oracle Argus Mart database

- the new enterprise exists in Oracle Argus Safety
- the new enterprise does not already exist in Oracle Argus Mart
- the base enterprise from which data is to be copied over, exists in Oracle Argus Mart

When all these Prerequisites are satisfied, the process of enterprise addition into Oracle Argus Mart begins.

4. Review the following log file, and check for any errors, when a confirmation message appears.

\DBInstaller\Utilities\create_enterprise\am_create_enterprise _MMDDYYYY_HH24MISS.log.



4

Configure Oracle Data Integrator Settings

After you have installed Oracle Data Integrator, you must configure certain settings to be able to use it to run the ETL process.

All the Oracle Data Integrator related data has been zipped into a file, which is a part of the installation package and is available at the following path:

...\ArgusMart\ODI\AM.zip

However, there are certain tasks that you need to execute before and after importing this zip file. All these tasks are covered in sequence in the later sections.

This chapter explains the step-by-step procedure to configure all the Oracle Data Integrator related tasks using the Oracle Data Integrator Studio. The configuration of these tasks using the Oracle Data Integrator Console is not supported for this release.

For more information, see:

- Minimum Components Required
- Install and Configure Oracle Data Integrator
- Create and Test the Data Server Connection
- Create a New Physical Schema
- Set Up the Physical Agent for Context CTX ARGUSMART
- Validate the Load Plan

Minimum Components Required

The following are the minimum components required to setup Oracle Data Integrator for Oracle Argus Mart:

- Oracle Data Integrator Studio
- Oracle Data Integrator Agent

Install and Configure Oracle Data Integrator

To install and configure the Oracle Data Integrator components (Oracle Data Integrator Studio and Oracle Data Integrator Agent):

Note:

To view the Oracle® Fusion Middleware Installing and Configuring Oracle Data Integrator Guide, refer to the following:

- For Oracle Data Integrator Release 12.1.3 https://docs.oracle.com/ middleware/1213/core/ODING/toc.htm
- For Oracle Data Integrator Release 12.2.1 https://docs.oracle.com/ middleware/1221/core/ODING/toc.htm
- Understand the Oracle Data Integrator Topology—To understand the Oracle Data Integrator agent topologies for the best suitable installation, refer to the Oracle® Fusion Middleware Installing and Configuring Oracle Data Integrator Guide > Section: Planning the Oracle Data Integrator Installation.
- 2. Install the Oracle Data Integrator—Refer to the *Oracle® Fusion Middleware*Installing and Configuring Oracle Data Integrator Guide > Section: Installing Oracle
 Data Integrator.
- 3. Create the Master and Work Repository Schema—Refer to the *Oracle® Fusion Middleware Installing and Configuring Oracle Data Integrator Guide >* Section Creating the Master and Work Repository Schema.
- 4. Create Repository Login—Create a login name for the Master or Work Repository.
 - a. On the Oracle Data Integrator Login screen, click the + icon. The Repository Connection Information screen appears.
 - **b.** On the Repository Connection Information screen:
 - i. In the **Login Name** field, enter a login name for the repository.
 - ii. In the User field, enter the name of the SUPERVISOR user.
 - iii. In the **Password** field, enter the password for the SUPERVISOR user. Enter the same password as provided for the SUPERVISOR while installing the ODI.
 - iv. In the Database Connection section, enter the Master Repository User Name and Password.
 Enter the same User Name and Password as provided while installing the
 - v. Enter the database details in the **Driver List** (Oracle JDBC Driver), **Driver Name** (oracle.jdbc.OracleDriver) and **URL** (jdbc:oracle:thin:@<host>:<port>:<sid>) fields. You may also click the Search icon next to the **Driver List** and **URL** fields to search for the required Driver List and URL.
 - vi. In Work Repository section:

Oracle Data Integrator.

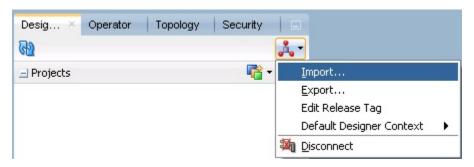
- Select Master Repository Only option, if the login is being created for the Master Repository.
- Select the Work Repository option, and enter the name of the Work Repository in the adjacent text box (for example, WORKREP1).
 You may also click the Search icon next to the Work Repository name text box.
- vii. Click OK.



The login name is created.

- 5. Import Oracle Argus Mart Schema Objects
 - a. Open the ODI, and connect to the repository using the Work Repository credentials that you have just created, as mentioned in the previous section.
 - **b.** From the **Designer** tab, click the down arrow. A drop-down menu appears.

Figure 4-1 Import Link



c. Click Import.

The Import Selection dialog box appears.

d. Select Smart Import, and click OK.
 The Smart Import dialog box appears.

e. Click the Search icon next to the **File Selection** field. The **Select an import file** dialog box appears.

f. Navigate to the AM. zip file, saved at the following location:

...\ArgusMart\ODI\AM.zip

g. Select the AM.zip file, and click Open. The complete path of the zip file appears in the File Selection field. Keep the Response file field as blank.

h. Click Next.

The **Please wait** dialog box appears with a **Matching Import Objects** message.

Subsequently, the **Smart Import** dialog box appears listing the components that will be imported from the zip file using the **Import Actions** screen.

Click Next.

The **Summary** screen appears with the **No issues** message if there are no errors in the import process.

j. Click Finish.

The **Please wait** dialog box appears with a **Import in progress** message.

Subsequently, the **Smart Import Report** screen appears listing the objects imported using the zip file.

k. Click Save.

The **Save Report** dialog box appears.

Click the Search icon next to the Name of the target file field.
 The Save dialog box appears.



m. Navigate to the path where you want to save the report, and in the File Name field, enter the name for the report.

n. Click Save.

The name of the report file appears along with the complete path in the **Name** of the target file field.

o. Click OK.

The Information dialog box appears with the path where the report file has been saved.

p. Click OK.

This completes the steps to import the AM zip file.

You may verify this from ODI > Designer tab. The Oracle Argus Mart specific folders now appears in the Designer tab under Projects section, such as **ARGUSMART<version number>**.

- 6. Setup the Physical Agent:
 - **a.** Open the Oracle Data Integrator Studio, and login to the Work Repository Connection created in the Step 4.
 - Go to the Topology tab, from the left side pane, navigate to the Physical Architecture > Agents.
 - c. Double -click PA_AM.
 - d. From the Definition Vertical tab, in the Host field, enter the IP address of the ODI Server.

If you configure a Standalone Agent, then leave the Agent Name as PA_AM, and configure the Standalone Agent in the next step with same name. If you configure a Java EE Agent, then change the Agent Name to OracleDIAgent (as by default), and the Agent Name for Java EE Agent will be created as OracleDIAgent. For more information, refer to Oracle® Fusion Middleware Installing and Configuring Oracle Data Integrator > 5 Configuring the Domain for the Java EE Agent > 5.3 Creating a Java EE Agent in the Master Repository Using ODI Studio.

Make sure to use the same port number in Oracle Data Integrator Studio as well as Agent configured.

7. Configure the Domain for the Oracle Data Integrator Agent:



For Oracle Argus Mart, configure either one of the Oracle Data Integrator Agents (Standalone, or Java EE).

- To configure the domain for the Standalone Agent, refer to the Configure Standalone Installation Topology for Standalone Agent.
- To configure the domain for the Java EE Agent, refer to the Configure Standard Installation Topology for Java EE Agent.

Create and Test the Data Server Connection

To create and test the Data Server connection, execute the following procedure:



1. Select the **Topology** tab.

In the Physical Architecture section, under Oracle folder, double-click **DS AM ARGUSMART**.

The connection details appears in the right pane, with **Definition** selected by default.

2. In the User field, enter the name of the Argus ETL user (AM_ETL_USER).

This user was created in the Create a Fresh Oracle Argus Mart Schema.

- 3. In the Password field, enter the password for the Argus ETL User.
- 4. Select JDBC in the right pane, and enter database details of the Argus Mart schema in the JDBC Driver (oracle.jdbc.OracleDriver) and JDBC URL (jdbc:oracle:thin:@<Argus_Mart_DB_Server_Name>:<Argus_Mart_DB_Listener_Port>:<Argus_Mart_DB_SID>) fields.

You may also click the Search icon next to these fields to search for the required value.

5. Click Test Connection.

A confirmation message appears to save data before testing the connection.

6. Click OK.

The Test Connection dialog box appears.

7. From the **Physical Agent** drop-down list, select **Local**, and click **Test**.

The Information dialog box appears with the Successful Connection message.

- 8. Click OK.
- From the Physical Agent drop-down list, select the Physical Agent, and click Test.

The Information dialog box appears with the **Successful Connection** message.

10. Click OK.

This completes the steps to create and test the Data Server connection.

Create a New Physical Schema

To fetch data by Oracle Data Integrator ETL, you must create a new physical schema.

1. Select the **Topology** tab.

In the Physical Architecture section, under Oracle folder, right-click **DS_AM_ARGUSMART**.

2. Select New Physical Schema.

The Physical Schema screen appears, where **Definition** is selected by default.

- From the Schema drop-down list, select the Argus ETL User (AM_ETL_USER).
 This user was created in Create a Fresh Oracle Argus Mart Schema.
- 4. From the **Schema (Work Schema)** drop-down list, select the Argus ETL User (**AM_ETL_USER**) again.
- 5. From the left-pane, select **Context**, and click the + icon.



A new row is added in the empty space below the **Context** and **Logical Schema** options.

- **6.** From the **Context** drop-down list, select **CTX_ARGUSMART**.
- 7. From the Logical Schema drop-down list, select LS_AM_ARGUSMART.
- 8. Click Save on the menu bar.

The new physical schema appears under Physical Architecture section, in Oracle folder.

Set Up the Physical Agent for Context CTX_ARGUSMART

To associate the physical agent with the context:

- Select the Topology tab.
- To open the context, from the Contexts section, double click CTX_ARGUSMART.
- 3. Navigate to Agents.
- 4. For the Logical Agent LA_AM, from the Physical Agent drop-down list, select the physical agent that was created while configuring the ODI. For example, PA_AM.
- 5. Click Save.

Validate the Load Plan

To validate the Load Plan, execute the following steps:

- Select Operator tab.
- In the Load Plans and Scenarios > LP_ARGUSMART821 section, double-click the LP_INI_AM Load Plan.

If the **Object Locking** dialog box appears, click **No** and proceed with the Validation process.

The Load Plan details appears in the right pane.

3. Click Validate.

A confirmation message appears, if there are no issues associated with the Load Plan.



5

Configure the Oracle Argus Mart Application

Before running the Initial ETL (Extract, Transform, and Load) process, you need to configure the Oracle Argus Mart Common Profile Switches to have control over the data that you want to transfer from the Oracle Argus Safety database to the Oracle Argus Mart database. These Common Profile Switches are configured using the Oracle Argus Safety Console.

This section explains these Common Profile Switches along with the step-by-step procedure to configure these profile switches using the Oracle Argus Safety Console.

To configure the Common Profile Switches using the Oracle Argus Safety Console:

- Log on to the Oracle Argus Safety Console and navigate to System Configuration > System Management (Common Profile Switches).
 The Common Profile screen appears with the list of configuration options in the left pane.
- 2. Click Argus Mart.

The Modify Oracle Argus Mart screen appears with the list of Oracle Argus Mart Common Profile Switches that you need to configure, in the right pane.

You can configure these Common Profile Switches using this screen.

See Table 5-1 for description about these profile switches along with their type (Global or Enterprise-specific).

The Global switches are visible only if you are logged in from a default enterprise.

If you are logged in from a non-default enterprise, only the enterprise-specific switches are visible in the list of Common Profile Switches.

3. Enter the required input in the text box (or select the radio buttons in case of the ENABLE SM PROCESSING profile switch) adjacent to the name of each profile switch, and click **Save**.



The Global Switches, as mentioned in the table below, impact all enterprises configured for Oracle Argus Mart whereas the Enterprise specific Switches impact the enterprise to which user is logged in, to access the Argus Safety console.

The following table lists the Common Profile Switches that you can configure for Oracle Argus Mart, their type, and their description:

Table 5-1 Common Profile Switches for Oracle Argus Mart

Profile Switch	Туре	Description
ENABLE SM PROCESSING	Global switch	This switch is used to enable or disable SM Processing for Oracle Argus Mart.
		Yes - Enable SM Processing for Argus Mart.
		No - Disable SM Processing for Oracle Argus Mart.
		The value for this switch cannot be changed once initial ETL has been executed.
ENABLE_AI_PROCESSIN G	Global switch	This switch is used to enable or disable Argus Insight Processing for Oracle Argus Mart.
		0 - Do not populate Oracle Argus Insight data in Oracle Argus Mart.
		1 - Populate Oracle Argus Insight data in Oracle Argus Mart.
REVISIONS TO PROCESS	Global switch	This switch refers to the Configuration Flag to process maximum number of revisions in an incremental ETL run.
		Setting the value as 0 for this switch represents that the Configuration Flag is not set.
FIRST HUMAN LANGUAGE	Enterprise specific switch	This switch refers to first human language for derived decoded items. This value should not be changed after data mart is initialized.
		For information on the First Human Language profile switch columns in SM Tables, refer to the ETL Mapping document.
SECOND HUMAN LANGUAGE	Enterprise specific switch	This switch refers to second human language for derived decoded items. This value should not be changed after data mart is initialized.
		For information on the Second Human Language profile switch columns in SM Tables, refer to the ETL Mapping document.
CUSTOM DATASHEET FOR LISTEDNESS	Enterprise specific switch	This switch refers to the specific datasheet value to be used for the SM_EVENT_PRODUCT.LISTEDNESS_C DS_VE column. This value should not be changed after data mart is initialized.
SMQ/CMQ FOR FATAL TERMS	Enterprise specific switch	This switch refers to the specific SMQ/CMQ to be used for determining fatal terms for the FATAL_YN_DV column. This value should not be changed after data mart is initialized.



Table 5-1 (Cont.) Common Profile Switches for Oracle Argus Mart

Profile Switch	Туре	Description
CUSTOM ROUTINE BEFORE STAGE TABLES POPULATION	Global switch	This switch refers to the full path of the custom routine to be executed before population of the Signal Staging Tables. If this routine fails or is not found, the ETL is not run and an error message is displayed.
CUSTOM ROUTINE BEFORE REPORTING TABLES POPULATION	Global switch	This switch refers to the full path of the custom routine to be executed before population of Signal Reporting Tables. If this routine fails or is not found, the ETL is not run and an error message is displayed.
CUSTOM ROUTINE AFTER REPORTING TABLES POPULATION	Global switch	This switch refers to the full path of the custom routine to be executed after population of Signal Reporting Tables. If this routine fails or is not found, the ETL is not run and an error message is displayed.
CUSTOM ROUTINE BEFORE SIGNAL HELPER TABLES POPULATION	Global switch	This switch refers to the full path of the custom routine to be executed before population of Signal Helper Tables. If this routine fails or is not found, the ETL is not run and an error message is displayed.
CUSTOM ROUTINE AFTER SIGNAL HELPER TABLES POPULATION	Global switch	This switch refers to the full path of the custom routine to be executed after population of Signal Helper Tables. If this routine fails or is not found, the ETL is not run and an error message is displayed.
CUSTOM ROUTINE AFTER ETL	Global switch	This switch refers to the full path of the custom routine to be executed after Initial/ Incremental ETL (post ETL commit). If this routine fails or is not found, the ETL is not run and an error message is displayed.
MISSING_CODE_DISPLAY _VALUE	Global switch	This switch refers to the missing display value corresponding to the code.



6

Upgrade Oracle Argus Mart

Oracle Argus Mart upgrade process has been moved from Schema Creation Tool to Liquibase. Liquibase is a refactoring tool that is utilized to enable a silent installation.

For more information, see:

- Prepare for the Database Upgrade
- Upgrade the Database

Prepare for the Database Upgrade

- 1. Recreate the Install User of Oracle Argus Mart.
- 2. Recreate the Safety RO User of Oracle Argus Mart.
- 3. Recreate the DB_LINK_ARGUS manually, from Oracle Argus Mart to Oracle Argus Safety. For more information, see From Oracle Argus Mart to Oracle Argus Safety (manually).

Upgrade the Database

- 1. Log in to Oracle Argus Mart Transaction Server.
- 2. Navigate to Programs > Oracle > Argus Mart > Database > DBInstaller.
- 3. Open DBInstaller.properties file.
- 4. Modify the following parameters:
 - Mart Database:
 - db_connect_string—connects to the Oracle Argus Mart database. Syntax: db connect string=<host>:<port>/<service name>

```
For example: db_connect_string=server.us.xx.com:1521/AM821MT Or, db_connect_string=server.us.xx.com:1521/AM821MT.us.xx.com
```

- dba_user—specifies the name of the Install user to run Argus Mart Liquibase Install.
 - See Create the Install User in Oracle Argus Mart.
- Mart User of each schema, where password is optional:
 - appschema_sm_mart
 - appschema_sm_stage
 - appschema_sm_app
 - appschema_etl_user
 - appschema_rls_user
 - appschema_bi_user

Safety Database:

- safety db—Oracle Argus Safety database instance name
- safety_ro_user—Oracle Argus Mart read-only user created in Oracle Argus Safety

Note:

For more information on these parameters, see Overview of the dbinstaller.properties file.

- 5. From the command prompt, go to DBInstaller directory.
- 6. Type dbinstaller.bat, and press Enter.
 - The Liquibase upgrade begins, and the parameters (as entered) appear on the command prompt screen with password in the hidden mode (****).
- 7. Keep monitoring the Liquibase progress by querying the Liquibase Log table mart_dbchangelog, created in AM_MART_USER schema.
- **8.** When the process is complete, a confirmation message appears with the latest version of Oracle Argus Mart.
- 9. Validate Schema using the schema validation control file VLDN_AM_8.2.1.CTL. See Validate the Schema.



Extract, Transform, and Load Data

This chapter describes the steps to run the Extract, Transform, and Load (ETL) process using the Oracle Data Integrator Studio and Oracle Data Integrator Console.

The following table illustrates some of the terms along with the name of the Load Plan that has been used to refer the different types of ETL in the later sections of this chapter:

Table 7-1 Describing ETL Types

Type of ETL	Description	Name of the Load Plan
Initial ETL	The Initial ETL process involves full load of data from Oracle Argus Safety and DLP to Oracle Argus Mart. It can be described as the first ETL run that is executed for a fresh setup.	LP_INI_AM
Incremental ETL	The Incremental ETL brings changed case data, from last ETL run till start of current ETL run, from Oracle Argus Safety and DLP. The LM/CFG data is reloaded only if any change in record(s) is identified. Dictionary data is always reloaded in case of an Incremental ETL.	LP_INC_AM
	If a new enterprise is added, the Incremental ETL loads complete data of the new enterprise along with delta data of other enterprises.	
Incremental ETL with BI Clear Cache	The Incremental ETL brings changed case data, from last ETL run till start of current ETL run, from Oracle Argus Safety and DLP. The LM/CFG data is reloaded only if any change in record(s) is identified. Dictionary data is always reloaded in case of an Incremental ETL.	LP_INC_AM_with_CI earCache
	If a new enterprise is added, the Incremental ETL loads complete data of the new enterprise along with delta data of other enterprises and clears the BI cache.	

For more information, see:

- Manage Initial ETL Process: Oracle Data Integrator Studio
- Monitor Initial ETL Process: Oracle Data Integrator Studio
- Manage Initial ETL Process: Oracle Data Integrator Console
- Monitor Initial ETL Process: ODI Console

Run the Incremental ETL

Manage Initial ETL Process: Oracle Data Integrator Studio

In this section:

- Run the ETL
- Stop the ETL
- Restart the ETL
- Process a Failed ETL

Run the ETL

1. Open the ODI Studio, and click Connect to Repository.

The Oracle Data Integrator Login screen appears.

- 2. In the Oracle Data Integrator Login screen:
 - a. From the **Login Name** drop-down list, select the ODI Work Repository name.
 - b. In the **User** field, enter the name of the ODI user.
 - In the Password field, enter the password for the ODI user.
 Enter the SUPERVISOR password as provided while configuring the ODI.
 - d. Click OK.
 The Oracle Data Integrator screen appears.
- 3. Select the **Operator** tab in the left pane.
- 4. Expand the **Load Plans and Scenarios** section.
- Expand LP_ARGUSMART821, and scroll-down to LP_INI_AM.
 This option in this section represents the load plan for the initial ETL process for Argus Mart.
- Right-click the LP_INI_AM option, from the drop-down menu select Run. The Start Load Plan screen appears.
- 7. In the Start Load Plan screen:
 - a. From the Context drop-down list, select CTX_ARGUSMART.
 - b. From the Logical Agent drop-down list, select LA_AM.
 - **c.** From the **Log Level** drop-down list, select the desired log level.
 - d. Click OK.
 The Information dialog box appears with the Load Plan Started confirmation message.
- 8. Click OK.

To verify the status of the ETL process, navigate to the **Load Plan Executions** section, and expand the Load Plan folder. The status of the Load Plan appears in **Green** color, which signifies that the ETL session is in progress.



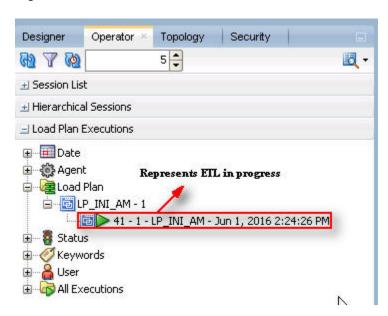


Figure 7-1 Status of the Load Plan

Stop the ETL

 In Load Plan Executions section, Load Plan folder, right-click the Load Plan, which you want to stop.

A drop-down menu appears.

2. Select Stop Normal.

The Stop Load Plan dialog box appears.

- 3. From the Physical Agent drop-down list, select PA_AM.
- 4. Click OK.

The execution of the Load Plan is stopped.

To verify the status of the ETL process, navigating to the Load Plan Executions section and expand the Load Plan folder. The status of the Load Plan appears in Red color with the \boldsymbol{X} symbol, which signifies that the ETL session is not in progress.



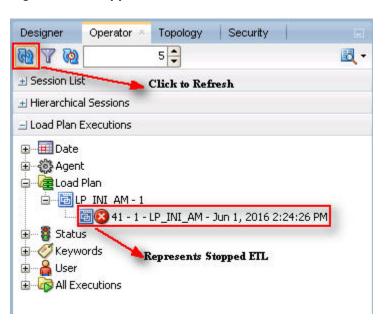


Figure 7-2 Stopped Initial ETL Session



You must verify in Oracle Argus Mart database if the ETL session has been successfully ended after this step.

Restart the ETL

Restarting the Initial ETL process enables you to start the ETL process from the last execution step where it was stopped or failed.

1. In Load Plan Executions section, Load Plan folder, right-click the Load Plan, which you want to restart.

The drop-down menu appears.

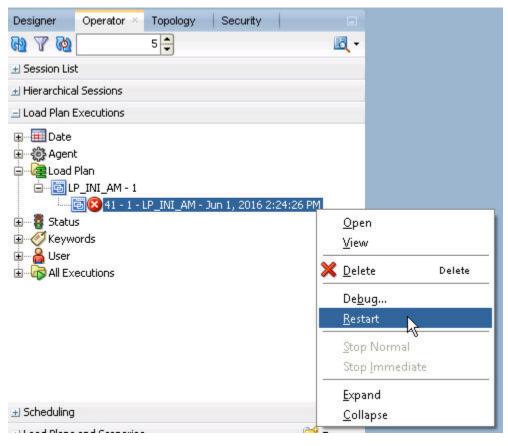


Figure 7-3 Restarting the Initial ETL

2. Click Restart.

The **Restart Load Plan** dialog box appears.

- 3. From the **Physical Agent** drop-down list, select **PA_AM**.
- 4. From the **Log Level** drop-down list, select the required log level.
- 5. Click OK.

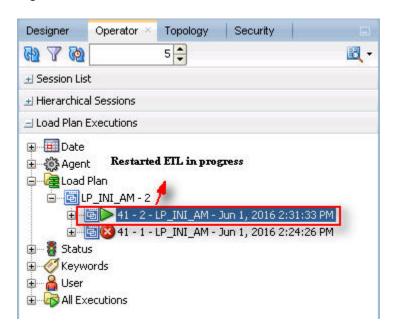
The Information dialog box appears with the **Load Plan restarted** message.

6. Click OK.

Another Load Plan is added with the same name as that of the stopped ETL, in the **Load Plan** folder. However, this instance of the ETL Process appears in green color, which signifies that the ETL is in progress.

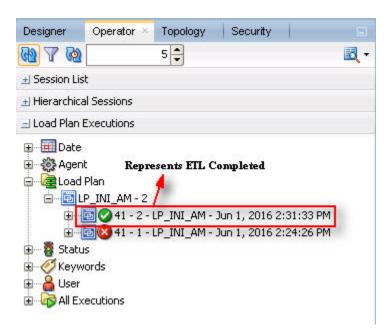


Figure 7-4 Restarted Load Plan



Once the ETL process is complete, the Load Plan is appear in green color with a check mark.

Figure 7-5 Completed Load Plan



Process a Failed ETL

If an ETL process fails, you have the option of continuing the process from the failed step or executing it again from the beginning of ETL.

This section explains the steps to continue a failed ETL from the failed step and to execute it again from the beginning of ETL.

For more information, see:

- Continue the Failed Initial ETL
 - The process to continue the failed Initial ETL from the failed step is exactly the same as that of the process of restarting the Initial ETL after stopping it.
- Restart the Failed Initial ETL
 The process to restart the failed Initial ETL from the beginning is exactly the same as that of the process of running the Initial ETL.

Continue the Failed Initial ETL

The process to continue the failed Initial ETL from the failed step is exactly the same as that of the process of restarting the Initial ETL after stopping it.

See Restart the ETL for the step-by-step procedure to continue the failed Initial ETL from the failed step.

Restart the Failed Initial ETL

The process to restart the failed Initial ETL from the beginning is exactly the same as that of the process of running the Initial ETL.

However, before restarting the ETL you must log on to the Oracle SQL Developer using the Argus ETL User credentials and execute the following statements:

- EXEC pkg_sm_stage_util.p_set_cmn_profile_value ('DATABASE',
 'ODI ETL STATUS', '0');
- EXEC pkg_sm_stage_util.p_set_cmn_profile_value ('DATABASE', 'ETL_SM_ITERATION_NUMBER', NULL);
- COMMIT:

To verify the successful execution of these statements, you may execute the following Select statements:

• SELECT * FROM rm_cmn_profile_global WHERE KEY = 'ODI_ETL_STATUS'; The entry for the **Value** column must be **0** after executing this statement.

Figure 7-6 Select Statement 1 to Verify Successful Execution

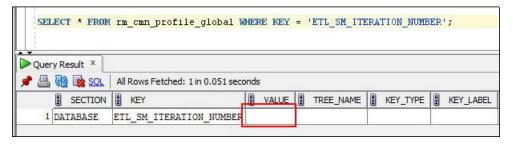


 SELECT * FROM rm_cmn_profile_global WHERE KEY = 'ETL SM ITERATION NUMBER';

The entry for the **Value** column must be blank after executing this statement.



Figure 7-7 Select Statement 2 to Verify Successful Execution



See the Run the ETL section for the step-by-step procedure to restart the failed Initial ETL from the beginning of ETL.

Monitor Initial ETL Process: Oracle Data Integrator Studio

In this section:

- · View the Steps of Load Plan
- Monitor the ETL
- Debug the Failed ETL
- Monitor the Restarted ETL (Resume)

View the Steps of Load Plan

Before executing the Initial ETL, you may view the steps of the Load Plan for the Initial and the Incremental ETL.

To view the Load Plan steps, execute the following steps:

- 1. Open the Oracle Data Integrator Studio, and click Connect To Repository.
- 2. Log on to the ODI Work Repository using the ODI User credentials.
- 3. Select the **Designer** tab, and expand the Load Plans and Scenarios section.
- 4. Double-click the **LP_INC_AM** load plan.
- 5. Select the **Steps** option in the right pane.

All the steps of the Load Plan appears.

Similarly, you may also view the steps for the Incremental Load Plan by navigating to **Designer** tab > Load Plans and Scenarios section, and double-click LP INC AM.

Monitor the ETL

To monitor the progress of the Initial ETL after executing the **LP_INI_AM** Load Plan, execute the following steps:

- Select the Operator tab, in the Load Plan Executions section expand the Load Plan folder.
- 2. Expand the LP_INI_AM load plan to view the ETL process in progress.

The status of the Load Plan appears in Green color, which signifies that the process is running properly.



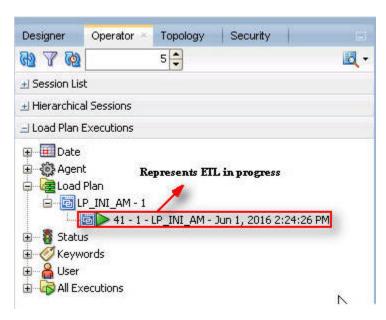


Figure 7-8 Viewing the Status of the ETL Process

3. Double-click the ETL session, highlighted in the figure above, and select **Steps** in the right pane.

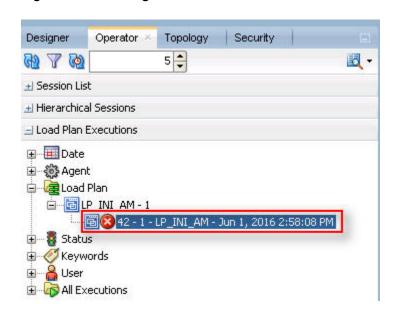
The list of steps for the Load Plan appears along with the steps that have been completed successfully. The green check mark represents the successful completion of the step.

Debug the Failed ETL

To view the step where the ETL process failed and also the error message related to the ETL process failure, execute the following steps:

 In the Operator tab > Load Plan Executions section, expand the Load Plan folder to view the current status of the ETL process.

Figure 7-9 Viewing the Failed ETL Process



The status of the Load Plan appears in Red color with the **X** symbol, which signifies that the ETL session is not in progress.

2. Double-click the Load Plan, and select Steps.

The list of steps for the Load Plan appears in the right pane. The step because of which the ETL process has failed, is highlighted in Red color with the **X** symbol.

- Hover over the cursor over the error message to view the complete message.
- For more information about the error message, click **Execute**.
- To view the error message, log on to the Oracle SQL Developer using the Argus ETL user credentials, and execute either or both of the following queries:
 - SELECT * FROM etl_stage_log ORDER BY id DESC;
 - SELECT * FROM etl_mart_log ORDER BY id DESC;

Monitor the Restarted ETL (Resume)

To view the status of the process after restarting a stopped ETL process, execute the following steps:

 In the Operator tab > Load Plan Executions section, expand the Load Plan folder.

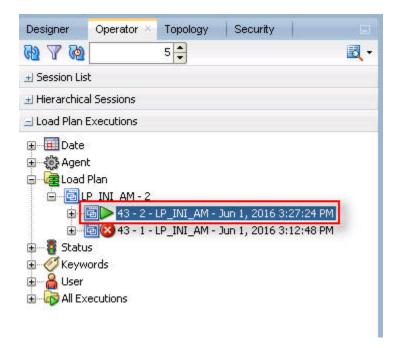


Figure 7-10 Viewing the Restarted ETL Process Status

The status of the restarted ETL process appears in Green color, which signifies that the ETL is in progress again.

2. To view the status of the remaining steps in the process, in the LP_INI_AM folder, double-click the Load Plan, and selecting **Steps**.

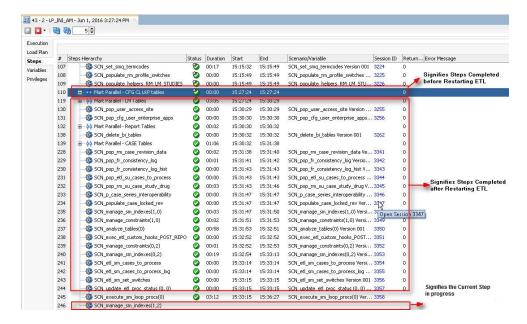


Figure 7-11 Viewing the Steps of the Restarted ETL

Manage Initial ETL Process: Oracle Data Integrator Console

In this section:

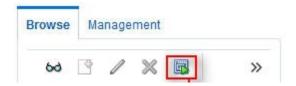
- Run the Initial ETL
- Stop the Initial ETL
- Restart the Initial ETL
- Process a Failed ETL

Run the Initial ETL

- Open the Oracle Data Integrator Console.
 The Oracle Data Integrator Console Sign In screen appears.
- 2. In the Oracle Data Integrator Sign In screen:
 - a. From the **Repository** drop-down list, select the ODI Work Repository name.
 - b. In the User Id field, enter the name of the ODI user.
 - c. In the **Password** field, enter the password for the ODI user.
 - Click Sign In.
 The Oracle Data Integrator Console screen appears.
- 3. Select the **Browse** tab in the left pane.
- 4. Navigate to Runtime > Scenarios/Load Plans > Folders > LP_ARGUSMART821 > LP_INI_AM.

The **LP_INI_AM** option in this section represents the load plan for the initial ETL process for Oracle Argus Mart.

Click Execute.



The Execute Load Plan screen appears.

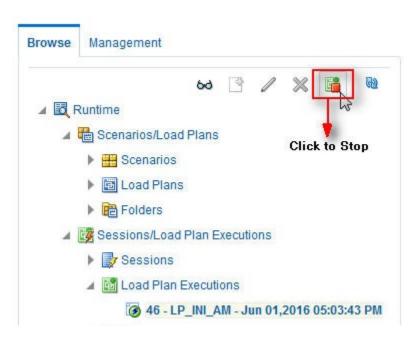
- 6. In the Execute Load Plan screen:
 - a. From the Logical Agent drop-down list, select LA_AM.
 - **b.** From the **Context** drop-down list, select **CTX_ARGUSMART**.
 - **c.** From the **Log Level** drop-down list, select the desired log level.
 - d. Click Execute Load Plan.
 The Information dialog box appears with confirmation message Load Plan Execution submitted successfully.
- 7. Click OK.

To verify the status of the ETL process, in the Sessions/Load Plan Executions section, expand the **Load Plan Executions** folder. The status of the Load Plan appears in green color with tilted **S**, which signifies that the ETL session is in progress.

Stop the Initial ETL

1. In the Sessions/Load Plan Executions section > Load Plan Executions folder, select the Load Plan, which you want to stop, and click Stop.

Figure 7-12 Stopping the Initial ETL



The **Stop Load Plan Execution** dialog box appears.



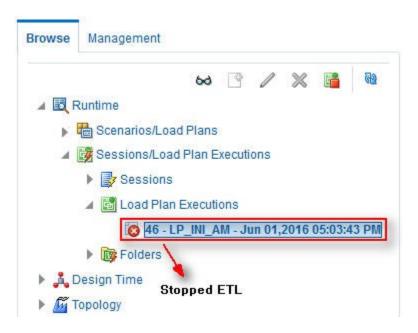
- 2. From the **Stop Type** drop-down list, select **Normal**.
- 3. From the Physical Agent drop-down list, select OracleDIAgent.
- 4. Click Stop.

The Information dialog box appears with confirmation message — **Load Plan was Stopped Successfully**.

5. Click OK.

To verify the status of the ETL process, navigate to **Sessions/Load Plan Executions section > Load Plan Executions** folder. The status of the Load Plan appears in red color with the **X** symbol, which signifies that the ETL session is not in progress.

Figure 7-13 Stopped Initial ETL Session



Note:

You must verify in Oracle Argus Mart database if the ETL session has been successfully ended after this step.

Restart the Initial ETL

Restarting the Initial ETL process enables you to start the ETL process from the last execution step where it was stopped or failed.

To restart the Initial ETL, execute the following steps:

1. In the Sessions/Load Plan Executions section > Load Plan Executions folder, select the Load Plan, which you want to restart, and click Restart.





The Restart Load Plan Execution dialog box appears.

- 2. From the Physical Agent drop-down list, select OracleDIAgent.
- 3. From the **Log Level** drop-down list, select the required log level.
- Click Restart.

The Information dialog box appears with confirmation message—Load Plan restarted successfully

5. Click OK.

Another Load Plan is added with the same name as that of the stopped ETL, in the **Sessions/Load Plan Executions section > Load Plan Executions** folder. However, this instance of the Load plan appears in green color, which signifies that the ETL is in progress.

Process a Failed ETL

If an ETL process fails, you have the option of continuing the process from the failed step or executing it again from the beginning of ETL.

This section explains the steps to continue a failed ETL from the failed step and to execute it again from the beginning of ETL.

For more information, see:

- Continue the Failed Initial ETL
- Restart the Failed Initial ETL

Continue the Failed Initial ETL

The process to continue the failed Initial ETL from the failed step is exactly the same as that of the process of restarting the Initial ETL after stopping it.

See the Restart the Initial ETL for the step-by-step procedure to continue the failed Initial ETL from the failed step.

Restart the Failed Initial ETL

The process to restart the failed Initial ETL from the beginning is exactly the same as that of the process of running the Initial ETL.

However, you need to execute certain steps before restarting the Failed Initial ETL, refer to the Restart the Failed Initial ETL for the complete details.

See the Run the Initial ETL for the step-by-step procedure to restart the failed Initial ETL from the beginning of ETL.



Monitor Initial ETL Process: ODI Console

In this section:

- View the Steps of Load Plan
- Monitor the ETL
- Debug the Failed ETL
- Monitoring the Restarted ETL (Resume)

View the Steps of Load Plan

Before executing the Initial ETL, you may view the steps of the Load Plan for the Initial and the Incremental ETL.

To view the steps of Load Plan, execute the following steps:

- 1. Log on the Oracle Data Integrator Console, and select the **Management** tab.
- Navigate to Runtime > Scenarios/Load Plans > Folders > LP_ARGUSMART821.
- Right-click LP_INI_AM (Load Plan for Initial ETL) or LP_INC_AM (Load Plan for Incremental ETL), and select View.

The steps for the Load Plan appears in the **Relationships** section in the right pane.

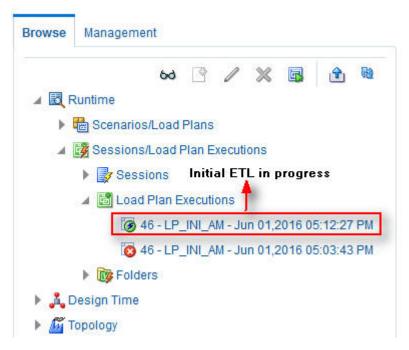
Monitor the ETL

To monitor the progress of the initial ETL after executing the **LP_INI_AM** Load Plan, execute the following steps:

 Select the Browse tab, and navigate to Runtime > Sessions/Load Plan Executions > Load Plan Executions.

A tilted **S** in green color appears, which signifies that the ETL process is running properly.





2. In the **Relationships** section, right-click the session, and select **View**, to view the list of all the steps along with the steps that have been completed.

Debug the Failed ETL

To view the step where the ETL process failed and also the error message related to the ETL process failure, execute the following steps:

 In the Browse tab, navigate to Runtime > Sessions/Load Plan Executions > Load Plan Executions.

The status of the Load Plan appears in red color with the ${\bf X}$ symbol, which signifies that the ETL session is not in progress.

2. Double-click the Load Plan.

The list of steps for the Load Plan appears in the **Relationship** section. The step because of which the ETL process has failed, is highlighted in red color with the **X** symbol.

- Hover over the error message to view the complete message.
- Alternatively, navigate to Runtime > Sessions/Load Plan Executions >
 Sessions, right-click the stopped session, highlighted in Red color with the !
 symbol, and select View.

The error details appears in the right pane.

- To view the error message, log on to the Oracle SQL Developer using the Argus ETL user credentials, and execute either or both of the following queries:
 - SELECT * FROM etl_stage_log ORDER BY id DESC;
 - SELECT * FROM etl_mart_log ORDER BY id DESC;



Monitoring the Restarted ETL (Resume)

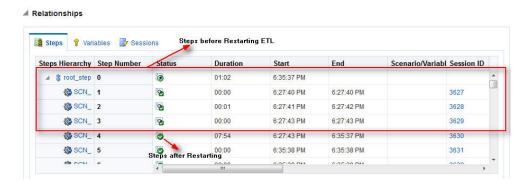
Once you have restarted a stopped ETL process, you can view the status of the process using the following steps:

 In the Browse tab, navigate to Runtime > Sessions/Load Plan Executions > Load Plan Executions section.

The status of the restarted ETL process appears in green color, which signifies that the ETL is in progress again.

To view the status of the steps completed before restarting the ETL, and the steps after restarting the ETL, double-clicking the session in progress.

The steps appears in the **Relationship** section in the right pane.



Run the Incremental ETL

For step-by-step information related to the Incremental ETL tasks such as Running, Stopping, and Restarting the Incremental ETL through:

- ODI Studio, see Manage the Incremental ETL Process
- ODI Console, see Manage the Incremental ETL Process



Uninstall the Oracle Argus Mart Application

To uninstall the Oracle Argus Mart application, execute the following steps:

1. Double-click Setup.exe to open the Oracle Universal Installer, available at the following location:

```
<ArgusMart_HOME>\Disk1\install
```

The Welcome screen appears.

2. Click Deinstall Products.

The Inventory screen appears.

3. In Contents tab, expand **Independent Products**.

The list of Independent Products appears.

4. Select Oracle Argus Mart < version number > check box.

Note the installation location displayed under the **Product Information** frame.

For example:

```
Location C:\ArgusMart821\oracle.hsgbu.am specifies installation path as C:\ArgusMart821
```

5. Click Remove.

A confirmation message appears.

6. Click Yes.

A progress bar appears and subsequently removes Oracle Argus Mart from the list of Independent Products.

- 7. Click **Close** to exit from the Inventory screen.
- 8. Click Cancel in the Oracle Universal Installer screen to exit.
- **9.** Delete the folder, where the Oracle Argus Mart was installed, from the local file system.

```
Example: C:\AM
```

- 10. Navigate to Start > All Programs > Oracle > Oracle Argus Mart.
- 11. Right-click Oracle Argus Mart, and from the drop-down menu, click **Delete**.
- 12. To Remove Database Components for Oracle Argus Mart:
 - a. Remove Database Schemas from Oracle Argus MartDatabase. Connect to SYSTEM or DBA user of Oracle Argus Mart Database, and execute the following commands to drop Oracle Argus Mart Users, Tablespaces, and other objects.

```
connect SYSTEM/<password>@<ArgusMartDB>

DROP USER "AM_APP_USER" CASCADE;

DROP USER "AM_BI_USER" CASCADE;

DROP USER "AM_ETL_USER" CASCADE;

DROP USER "AM_MART_USER" CASCADE;

DROP USER "AM STAGE USER" CASCADE;
```

```
DROP USER "AM_VPD_USER" CASCADE;
DROP ROLE "AM_VPD_ADMIN_ROLE";
DROP PUBLIC SYNONYM "RM_CMN_PROFILE_GLOBAL";
ALTER TABLESPACE "AM_APP_DATA_01" COALESCE;
ALTER TABLESPACE "AM APP INDEX 01" COALESCE;
ALTER TABLESPACE "AM_APP_LOB_01" COALESCE;
ALTER TABLESPACE "AM_MART_DATA_01" COALESCE;
ALTER TABLESPACE "AM_MART_INDEX_01" COALESCE;
ALTER TABLESPACE "AM_MART_LOB_01" COALESCE;
ALTER TABLESPACE "AM_STAGE_DATA_01" COALESCE;
ALTER TABLESPACE "AM_STAGE_INDEX_01" COALESCE;
ALTER TABLESPACE "AM_STAGE_LOB_01" COALESCE;
DROP TABLESPACE AM_APP_DATA_01 INCLUDING CONTENTS;
DROP TABLESPACE AM_APP_INDEX_01 INCLUDING CONTENTS;
DROP TABLESPACE AM APP LOB 01 INCLUDING CONTENTS;
DROP TABLESPACE AM_MART_DATA_01 INCLUDING CONTENTS;
DROP TABLESPACE AM_MART_INDEX_01 INCLUDING CONTENTS
DROP TABLESPACE AM_MART_LOB_01 INCLUDING CONTENTS;
DROP TABLESPACE AM_STAGE_DATA_01 INCLUDING CONTENTS
DROP TABLESPACE AM_STAGE_INDEX_01 INCLUDING CONTENT
DROP TABLESPACE AM_STAGE_LOB_01 INCLUDING CONTENTS;
```

b. Remove Oracle Argus Mart Schema on Oracle Argus Safety Database (AS_MART_USER) from Argus Safety Database created for Oracle Argus Mart.

Connect to SYSTEM or DBA user of Argus Safety Database.

```
connect SYSTEM/<password>@<ArgusSafetyDB>
DROP USER "AS_MART_USER" CASCADE;
```

- 13. Remove the TNS entry of the Oracle Argus Mart database from the given Oracle Home path (see Section 2.2 > Step 6) located at
 - ..\network\admin\tnsnames.ora
- 14. Restart the system.

Note:

If you are re-installing Oracle Argus Mart on the same server, you must provide the same folder path that was specified during the previous installation process. For example, if you installed Argus Mart at C: AM location and uninstall it using the steps mentioned above, you must enter the same folder path (for example, C: AM) that was entered in the previous installation process.



Part II

Administration

This part of the *Oracle Argus Mart Installation and Administration Guide* describes administrative tasks that enables you to manage Oracle Argus Mart.

For more information, see:

- Set Up Context in a Multi-tenant Environment
- Secure Unblinding in Oracle Argus Mart
- Rebuild a Case in Oracle Argus Mart
- Work with Incremental ETL in Oracle Data Integrator Studio
- Work with Incremental ETL in Oracle Data Integrator Console
- Re-initialize the ETL Process
- Troubleshooting



Set Up Context in a Multi-tenant Environment

In a multi-tenant setup, you can view only one enterprise data at a time for which context has been set.

To set the context for an enterprise, execute the following steps:

- 1. Connect to the Argus Mart User (AM_MART_USER).
- 2. Execute the following command:

```
pkg_rls.set_context(:LoginUserName, :Enterpriseid, 'ARGUS_MART', NULL);
```

Where,

- LoginUserName refers to the User Name
- **Enterpriseid** refers to the ID for the enterprise
- ARGUS_MART refers to the Application Name

This completes the steps to set the context for the enterprise.

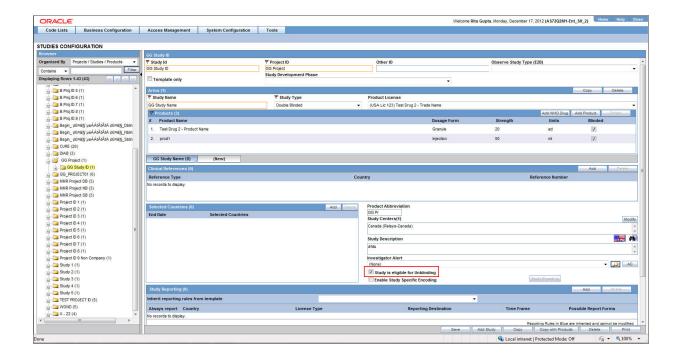
Example 9-1 Setting Context for an Enterprise

Execute pkg_rls.set_context('admin',3,'ARGUS_MART',NULL);

Secure Unblinding in Oracle Argus Mart

This chapter explains the concept of Blinded Security for certain table columns in Oracle Argus Mart for a drug study.

The value for some of the table columns in Oracle Argus Mart is dependent upon the selection of **Business Configuration > Studies Configuration > Study** is eligible for Unblinding check box, in Oracle Argus Safety.



If the this check box is selected, the actual values for all the blinded columns is displayed in Oracle Argus Mart tables.

However, if this check box is not selected, the actual values for all the blinded columns are replaced by NULL, Blinded, or any other value in the Oracle Argus Mart tables.

In case of the Reporting Mart, there are three views which comprise the Blinded information: v_rm_su_case_product, v_rm_su_case_prod_drugs, and v_rm_su_case_dose_regimens. These views display the actual data only if the **Study is eligible for Unblinding** check box is selected.

Similarly, in case of a Signal Mart, there are certain table columns which comprise the Blinded information. The name of these columns end with _su, which represents Secure Unblinding. These table columns display the actual data only if the **Study is eligible for Unblinding** check box is selected.

Rebuild a Case in Oracle Argus Mart

During the incremental ETL execution, you may need to re-populate certain cases from the scratch due to DLP data corruption or migration of cases in chunk.

To rebuild the entire information for the selected cases:

- Specify ENTERPRISE_ID/CASE_ID of such cases in the table ETL_MANUAL_RBLD_CASE_LIST.
- 2. During the Incremental ETL, these cases will be deleted from Reporting Mart (RM) and Signal Mart (SM) tables, and rebuilt from the scratch.
 - Note that the cases that are not part of this table, will be processed only for delta data as before.
- 3. When a case that is rebuilt has an effective start date earlier than the current value in switches START_DATE_CURRENT_DATA_SUPPORT and START_DATE_LOCKED_REVISION_SUPPORT, these switch values will be overwritten with the rebuild case effective start date.



When the case is rebuilt, any reference data change that is present in the case revisions will be lost.

Note:

Oracle recommends to use this feature cautiously and on need basis only.

Work with Incremental ETL in Oracle Data Integrator Studio

This chapter describes the steps required to administer the ETL process using the Oracle Data Integrator Studio.

For more information, see:

- Schedule an Incremental ETL
- Monitor the Incremental ETL Process
- Manage the Incremental ETL Process

Schedule an Incremental ETL

The ${\tt AM.\,zip}$ file contains pre-configured ETL scheduling in ${\tt Inactive}$ mode.

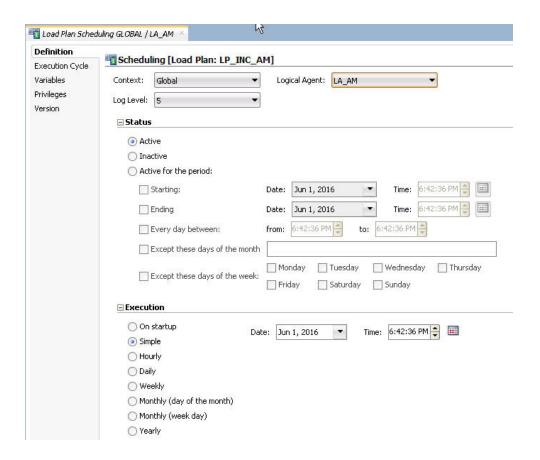
The Incremental ETL is used to load the delta data. You can execute an Incremental ETL either by executing Load Plan LP_INC_AM, or scheduling an ETL to run at the configured time interval.

To schedule a Load Plan, execute the following steps:

- In the Designer tab, navigate to Load Plans and Scenarios section and expand LP_INC_AM (Load Plan for Incremental ETL).
- Right-click Scheduling and select New Scheduling.

The **Load Plan Scheduling** dialog box appears.





You can set options given in the **Status** and **Execution** sections, according to the requirements to schedule the Load Plan.

Monitor the Incremental ETL Process

The process of monitoring the Incremental ETL using the Oracle Data Integrator Studio is same as the process of monitoring the Initial ETL.

For step-by-step information related to monitoring the Incremental ETL process using the ODI Studio, see Monitor Initial ETL Process: Oracle Data Integrator Studio.

Manage the Incremental ETL Process

This section describes the steps required to manage the Incremental ETL process using the Oracle Data Integrator Studio.

For more information, see:

- Run the Incremental ETL
- Run the Incremental ETL with Clear Cache
- Stop the Incremental ETL
- Restart the Incremental ETL
- Process a Stopped or a Failed ETL

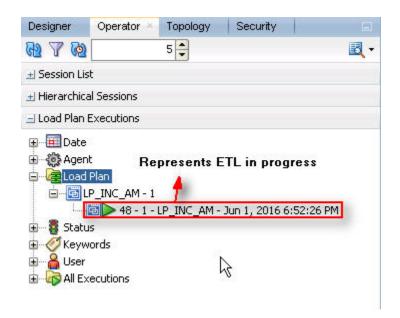


Run the Incremental ETL

- Open the Oracle Data Integrator Studio, and click Connect to Repository.
 The Oracle Data Integrator Login dialog box appears.
- 2. In the Oracle Data Integrator Login window:
 - **a.** From the **Login Name** drop-down list, select the Oracle Data Integrator Work Repository name.
 - b. In the **User** field, enter the name of the ODI user.
 - c. In the **Password** field, enter the password for the ODI user.
 - d. Click **OK**.The Oracle Data Integrator screen.
- 3. From the left pane, select the **Operator** tab.
- Expand the Load Plans and Scenarios section.
 The LP_INC_AM option represents the load plan for the Incremental ETL process for Oracle Argus Mart.
- 5. Right-click the **LP_INC_AM** option, and from the drop-down menu, click **Run**. The Start Load Plan dialog box appears.
- 6. Click Run.
- In the Start Load Plan screen:
 - a. From the Context drop-down list., select CTX ARGUSMART.
 - **b.** From the **Logical Agent** drop-down list, select **LA_AM**.
 - c. From the **Log Level** drop-down list, select a user session task log level.
 - d. Click OK. The Information dialog box with the Load Plan Started confirmation message appears.
- 8. Click OK.

You can verify the status of the ETL process by navigating to the Load Plan Executions section and expanding the **Load Plan** folder. You can view the status of the Load Plan in green color with tilted **s**, which signifies that the ETL session is in progress.





Run the Incremental ETL with Clear Cache

Note:

- Execute this procedure only if you require the Oracle Business Intelligence Enterprise Edition Clear Cache option.
- Oracle Business Intelligence Enterprise Edition Clear Cache option works only when Oracle Business Intelligence Enterprise Edition and Oracle Data Integrator are installed on the same machine.
- 1. Import the file AM.zip as per the steps specified in section 'Import Argus Mart Schema Objects' of section 4.2
- 2. Refresh the Designer tab and verify that:
 - A new load plan named LP_INC_AM_with_ClearCache is available.
 - PKG_BI_CLEAR_CACHE component is added to this new Load Plan.
 - The following new variables are available:
 - VAR_ALN_BI_DOMAIN_PATH
 - VAR_ALN_BI_SQL_PATH
 - VAR_ALN_BI_USER
 - VAR_ALN_BI_PWD
- 3. Set up the bi_clear_cache.sql.
 - a. Copy the bi_clear_cache.sql from the ODI folder.
 - b. Place the file to a location from where OBIEE can access it.



For example:

- Linux: /u01/obieecache/bi_clear_cache.sql- Windows
 c:\obieecache\bi_clear_cache.sql
- c. Make sure the OS user that installs OBIEE has the required permissions for the bi_clear_cache.sql file.
- d. Edit the SQL file as required:

То	Add
Clear the entire cache	call SAPurgeAllCache();
Purge the cache of OPVA_DWH database	call SAPurgeCachebyDatabase('OPVA_DWH');
Purge the cache of Al80_SRC database	call SAPurgeCachebyDatabase('Al80_SRC');
Purge the cache of multiple databases	call SAPurgeCachebyDatabase('OPVA_DWH');c all SAPurgeCachebyDatabase('Al80_SRC');



Here, the OPVA_DWH and Al80_SRC are the database names in the physical architecture inside OBIEE RPD.

- **4.** Configure Oracle Data Integrator for Oracle Business Intelligence Enterprise Edition Clear Cache.
 - a. Login to Oracle Data Integrator Studio.
 - b. Connect to Oracle Argus Mart Work Repository.
 - c. Navigate to the Designer tab.
 - d. Open the package PKG_BI_CACHE.
 - e. Navigate to the Diagram sub-tab, and select odiOSCommand_ClearCache.
 - f. Configure the following based on your environment:

Parameter	Action	
Command To Execute (Only for Windows)	Update the command to have relative folder paths as per the Windows OS convention.	
	For example: #ARGUSMART.VAR_ALN_BI_DOMAIN_PATH/ bitools/bin/nqcmd.cmd -d AnalyticsWeb -u #ARGUSMART.VAR_ALN_BI_USER -p #ARGUSMART.VAR_ALN_BI_PWD -s #ARGUSMART.VAR_ALN_BI_SQL_PATH\bi_clear _cache.sql	
Output File	Update the file location.	



Parameter	Action
Error File	Update the file location.

- g. Save the changes.
- Navigate to Overview > Scenarios tab, right-click the PKG_BI_CACHE Version 001 scenario, and select Regenerate.
- i. In the Regenerate Scenario pop-up window, click **OK**.
- j. In the Scenario Variables window, click **OK**.
- Login to ODI Studio.
- 6. Connect to Argus Mart Work Repository.
- 7. Navigate to the Operator tab.
- 8. Go to Load Plan and Scenarios > LP_ARGUSMART821 and right-click the load plan LP_INC_AM_with_ClearCache.
- 9. Enter the values for following variables:

Variable	Description	Sample Value
VAR_ALN_BI_DOMAIN_PAT H:	Defines Oracle Business Intelligence Enterprise Edition Domain Home Path.	/u01/app/oracle/Middleware/ user_projects/domains/bi
VAR_ALN_BI_SQL_PATH:	Defines complete directory path where bi_clear_cache.sql is available.	/u01/obieecache
VAR_ALN_BI_USER:	Defines the Login ID of the Oracle Business Intelligence Enterprise Edition admin user.	weblogic
VAR_ALN_BI_PWD:	Defines password of the Oracle Business Intelligence Enterprise Edition admin user.	_

10. To start the load plan execution click **OK**.

Stop the Incremental ETL

- Right-click the Load Plan, which you want to stop, in the Load Plan folder of the Load Plan Executions section.
- 2. From the drop-down menu, select **Stop Normal**.
 - The **Stop Load Plan** dialog box appears.
- 3. Select PA_AM from the Physical Agent drop-down list.



4. Click **OK**. This stops the execution of the Load Plan.

You can verify the status of the ETL process by navigating to the **Load Plan Executions** section and expanding the **Load Plan** folder. You can view the status of the Load Plan in red color with the X symbol, which signifies that the ETL session is not in progress.



You must verify in Oracle Argus Mart database if the ETL session has been successfully ended after this step.

Restart the Incremental ETL

Restarting the Incremental ETL process enables you to start the ETL process from the last execution step where it was stopped or failed.

- Right-click the Load Plan, which you want to restart, in the Load Plan folder of the Load Plan Executions section.
- From the drop-down menu, click Restart.

The Restart Load Plan dialog box appears.

- Select PA_AM from the Physical Agent drop-down list.
- 4. Select the required log level from the Log Level drop-down list.
- Click OK. This displays the Information dialog box with the Load Plan restarted message.
- Click OK.

This adds another Load Plan, with the same name as that of the stopped ETL, in the **Load Plan** folder of the **Load Plan Executions** section. However, this instance of the ETL Process is in Green color, which signifies that the ETL is in progress.

Once the ETL process is complete, the Load Plan is displayed in Green color with a check mark.

Process a Stopped or a Failed ETL

The complete ETL process is divided into two major phases: Staging and Mart. The Mart phase starts only when the Staging phase is complete.

If an ETL process fails, you have the option of continuing the process from the failed step or executing it again from the beginning of ETL.

This section explains the steps to resume a failed ETL from the failed step and to execute it again from the beginning of ETL.

This section comprises the following sub-sections:

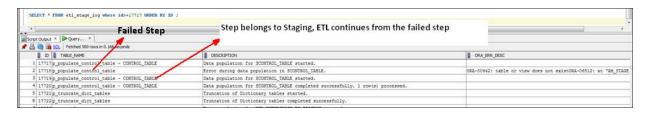
- Continue the Failed Incremental ETL
- Restart the Failed Incremental ETL



Continue the Failed Incremental ETL

If the last execution step of the failed or stopped ETL belongs to the Staging phase, the ETL resumes from the failed or stopped point, as shown in the following figure:

Figure 12-1 Staging Phase: Incremental ETL Resumes from Failed or Stopped Point



If the last execution step of the failed or stopped ETL belongs to the Mart phase, the ETL resumes from the first step of the Mart phase and not from the failed or stopped point.

Figure 12-2 Mart Phase: Incremental ETL Resumes from the First Step of Mart



The process to continue the failed Incremental ETL from the failed step is exactly the same as that of the process of restarting the Incremental ETL after stopping it.

See the Restart the Incremental ETL section for the step-by-step procedure to continue the failed Incremental ETL from the failed step.

Restart the Failed Incremental ETL

The process to restart the failed Incremental ETL from the beginning is exactly the same as that of the process of running the Incremental ETL.

However, before restarting the ETL, you must log on to the Oracle SQL Developer or SQLPlus (or SQL Prompt) using the Argus ETL User credentials and execute the following statements:

```
EXEC pkg_sm_stage_util.p_set_cmn_profile_value
('DATABASE', 'ODI_ETL_STATUS', '0');EXEC
pkg_sm_stage_util.p_set_cmn_profile_value ('DATABASE',
'ETL_SM_ITERATION_NUMBER', NULL);
COMMIT;
```

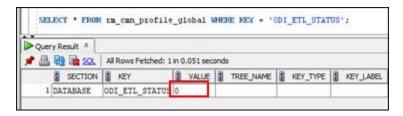


To verify the successful execution of these statements, you can execute the following Select statements:

SELECT * FROM rm_cmn_profile_global WHERE KEY = 'ODI ETL STATUS';

The entry for the **Value** column must be **0** after executing this statement.

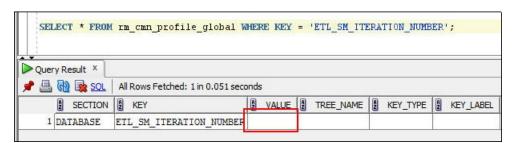
Figure 12-3 Select Statement 1 to Verify Successful Execution



SELECT * FROM rm_cmn_profile_global WHERE KEY =
 'ETL_SM_ITERATION_NUMBER';

The entry for the **Value** column must be blank after executing this statement.

Figure 12-4 Select Statement 2 to Verify Successful Execution



See the Run the Incremental ETL section for the step-by-step procedure to restart the failed Incremental ETL from the beginning of ETL.



Work with Incremental ETL in Oracle Data Integrator Console

This chapter describes the steps required to administer the ETL process using the Oracle Data Integrator Console.

For more information, see:

- Schedule an ETL
- Monitor the Incremental ETL Process
- Manage the Incremental ETL Process

Schedule an ETL

The ETL can be scheduled through Oracle Data Integrator Studio only.

To schedule an ETL, see Schedule an Incremental ETL.

Monitor the Incremental ETL Process

The process of monitoring the Incremental ETL using the Oracle Data Integrator Console is same as the process of monitoring the Initial ETL.

For step-by-step information related to monitoring the Incremental ETL process using the Oracle Data Integrator Console, see Monitor Initial ETL Process: ODI Console.

Manage the Incremental ETL Process

This section describes the steps required to manage the Incremental ETL process using the Oracle Data Integrator Console.

For more information, see:

- Run the Incremental ETL
- Stop the Incremental ETL
- Restart the Incremental ETL
- Process a Stopped or a Failed ETL

Run the Incremental ETL

- Open the Oracle Data Integrator Console. This displays the Oracle Data Integrator Console Sign In window.
- 2. In the Oracle Data Integrator Sign In window:
 - a. Select the ODI Work Repository name from the **Repository** drop-down list.



- **b.** Enter the name of the ODI user in the **User Id** field.
- c. Enter the password for the ODI user in the **Password** field.
- d. Click Sign In.
 The Oracle Data Integrator Console screen appears.
- 3. Select the **Browse** tab in the left pane.
- 4. Expand the Runtime folder, and navigate to Runtime > Scenarios/Load Plans > Folder > LP_ARGUSMART821, and select LP_INC_AM.
 The LP_INC_AM option in this section represents the load plan for the Incremental ETL process for Argus Mart.
- 5. Click Execute.



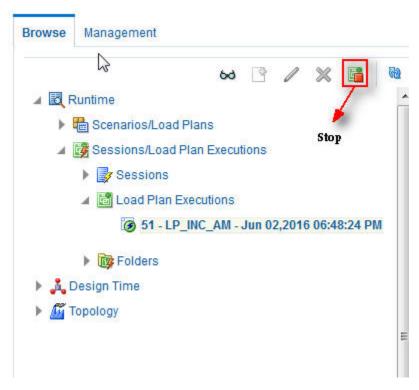
- 6. In the Execute Load Plan window:
 - a. Select LA_AM from the Logical Agent drop-down list.
 - b. Select CTX ARGUSMART from the Context drop-down list.
 - c. Select the desired log level from the Log Level drop-down list.
 - d. Click Execute. This displays the Information dialog box with the Load Plan Execution submitted successfully confirmation message.
- 7. Click OK.

You can verify the status of the ETL process by expanding the **Load Plan Executions** folder in the **Sessions/Load Plan Executions** section. You can view the status of the Load Plan in green color with tilted **s**, which signifies that the ETL session is in progress.

Stop the Incremental ETL

 Select the Load Plan, which you want to stop, by expanding the Load Plan Executions folder of the Sessions/Load Plan Executions section and click Stop.





- 2. In the Stop Load Plan Execution dialog box, from the **Stop Type** drop-down list, select **Normal**.
- 3. Select OracleDIAgent from the Physical Agent drop-down list.
- 4. Click Stop.

The Information dialog box appears with the Load Plan was Stopped Successfully confirmation message.

5. Click OK.

You can verify the status of the ETL process by navigating to the **Load Plan Executions** folder in the **Sessions/Load Plan Executions** section. You can view the status of the Load Plan in **Red** color with the X symbol, which signifies that the ETL session is not in progress.

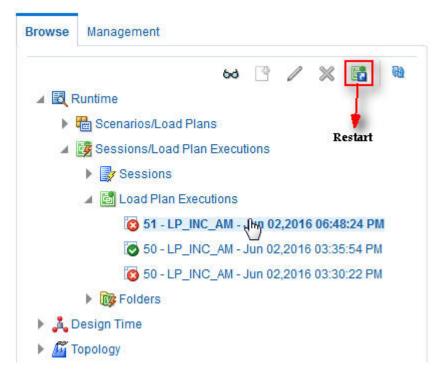


You must verify in Oracle Argus Mart database if the ETL session has been successfully ended after this step.

Restart the Incremental ETL

Restarting the Incremental ETL process enables you to start the ETL process from the last execution step where it was stopped or failed.

 Select the Load Plan, which you want to restart, in the Load Plan Executions folder of the Sessions/Load Plan Executions section and click Restart.



- 2. In the Restart Load Plan Execution dialog box, from the Physical Agent drop-down list., select OracleDIAgent.
- 3. Select the required log level from the Log Level drop-down list.
- Click Restart. This displays the Information dialog box with the Load Plan restarted message.
- 5. Click OK.

This adds another Load Plan, with the same name as that of the stopped ETL, in the **Load Plan Executions** folder of the **Sessions/Load Plan Executions** section. However, this instance of the Load plan is in Green color, which signifies that the ETL is in progress.

Process a Stopped or a Failed ETL

The processing of a stopped or a failed ETL in Oracle Data Integrator Console is same as the processing of a stopped or a failed ETL in Oracle Data Integrator Studio.

For detailed information, see Process a Stopped or a Failed ETL.



Re-initialize the ETL Process

When you have successfully executed the Initial ETL process on a database, you cannot execute it again till the time you reset the mart environment. To facilitate this, you need to execute a Re-initial script. It is a Batch file, which re-initializes the database, so that you can run the Initial ETL on the database again.



When you run the re-initial ETL, the data of Oracle Argus Mart is truncated and reloaded in RM and SM tables. Revision created due to reference data changes will be lost.

To execute the Re-initial script, execute the following steps:

- 1. Double-click the am_environment_reset.bat file available at the following path:
 - ...\ArgusMart\Database\Utils\am_environment_reset.bat

This displays a warning message, which serves as a confirmation from you that you want to reset the Mart environment.

2. Enter Y, which represents Yes, in the Do You Want to Continue (Y/N)? field, if you want to continue with resetting the Mart environment to be able to run the Initial ETL on the database again. Or

Enter \mathbf{N} , which represent \mathbf{No} , if you want to quit the process of resetting the Mart environment.

If you have entered **Y**, the **Reset Environment to Re-Run Initial ETL** Screen is displayed.

- 3. Enter the TNS Name to connect to the Oracle Argus Mart database in the Enter Database TNS field and press Enter.
- **4.** Enter the following parameters for the user who have administrator rights to access the ETL process.

Note:

This user is referred to as Argus ETL User. If the user is not the database owner with the administrator rights for the ETL process, the system displays an error message.

- a. Enter the Oracle Argus Mart Database Owner in the Enter Argus ETL User field, and press Enter.
- **b.** Enter the password in the **Enter Password for User** field, and press **Enter**.

- c. Enter the name of the log file in the **Enter log file name** field, and press **Enter**.
 - The system displays a **Connecting** status message and once connected displays **Connected**.
- **5.** Press **Enter** to complete writing the logs.
- **6.** Press **Enter** to exit from the window.



Troubleshooting

The following is the list of the some error messages that might appear while working with Oracle Argus Mart, the cause for those messages, and the resolution:

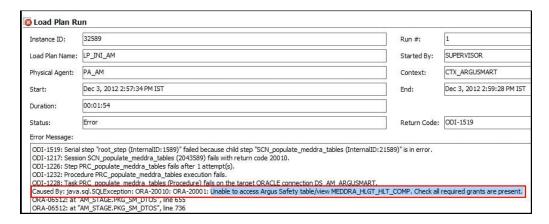
- Dictionary Reload Error
- ETL Execution Pre-Requisite Check Failed Error
- FR Consistency Log Error
- MedDRA Mismatch Error
- Multiple Enterprise Creation Messages
- SMQ-CMQ Loop Error

Dictionary Reload Error

Error Message:

The following error message is displayed during the ETL process, whenever the dictionary is reloaded in Oracle Argus Safety:

Figure 15-1 Dictionary Reload Error Message



You can also view this error message by logging on to the SQL Developer as the AM_MART_USER, as shown in the following figure:

Figure 15-2 Dictionary Reload Error Message: SQL Developer



Cause of Error:

Whenever there is a dictionary reload in Oracle Argus Safety, some of the required privileges for the Oracle Argus Safety user, which you created, using the Schema Creation Tool during the Installation Process, are lost.

Resolution:

You must give the required privileges to the Oracle Argus Safety user. To do so, click the **Argus User Creation** link on the Schema Creation Tool, select the user that you created during the installation process in the **Argus Safety User Creation** dialog box, enter the name of the log file and click **OK** to give the required privileges to the user.

You can refer to Section 3.5.1, Creating User for the Argus Safety Database, for more information.

ETL Execution Pre-Requisite Check Failed Error

Error Message:

There are some Pre-requisite checks that you must do before the execution of the ETL. The following is the error message, which is displayed if any of the Prerequisites checks are not done:

Figure 15-3 Pre-Requisite Check Failed Error



Cause of Error:

The following are the possible causes of this error message:

- If you are trying to run the Initial ETL on a database again without executing the Re-initial script.
- If you are trying to execute the Incremental ETL prior to the Initial ETL.
- If you have not configured the First Human Language Profile Switch using the Oracle Argus Safety console for the enterprises configured in Oracle Argus Mart. You must not leave the value for the First Human Language Profile Switch, as Blank.



If the previous instance of the ETL is still not complete for the Load Plan.

Resolution:

To resolve this error message, you must:

- Ensure that you run the Initial ETL on a database again only if you have already executed the Re-initial script. For more information on Re-initial script, see Reinitialize the ETL Process.
- If you are trying to run the Incremental ETL on a database, ensure that the Initial ETL has already been executed on it.
- Ensure that you have not left the value for the First Human Language Profile Switch for the enterprises configured in Oracle Argus Mart, as Blank.
- Ensure that the Previous Instance of the ETL process is complete. You can either
 resume the ETL process if it is in Stopped state, or you can execute the re-initial
 script on the database and restart the ETL process from the first step.
 For more information on resuming or restarting the ETL process, see Extract,
 Transform, and Load Data.

FR Consistency Log Error

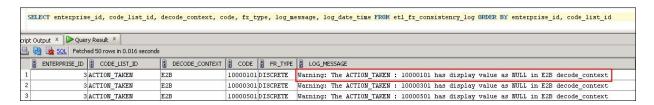
Error Message:

You can run the following query using the SQL developer to view the Flexible Recategorization (FR) Consistency warning message:

SELECT enterprise_id, code_list_id, decode_context, code, fr_type, log_message, log_date_time FROM etl_fr_consistency_log ORDER BY enterprise_id, code_list_id

The following is the error message:

Figure 15-4 FR Consistency Error



Cause of Error:

The display value for a codelist is NULL in the $rm_code_list_detail_discrete$ table in Oracle Argus Safety.

Resolution:

You must update the value for the codelist in the $rm_code_list_detail_discrete$ table in Oracle Argus Safety and re-run the ETL.

MedDRA Mismatch Error

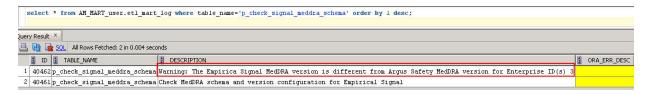
Error Message:



You can run the following query using the SQL developer to view the MedDRA mismatch warning message in the etl_mart_log table:

```
SELECT * FROM am_mart_user.etl_mart_log WHERE table_name =
'p_check_signal_meddra_schema' ORDER BY 1 DESC;
The following is the error message:
```

Figure 15-5 MedDRA Mismatch Error



Cause of Error:

During the ETL process, a check is done between the Oracle Argus Safety and the Oracle Argus Mart database to ensure that they are using the same MedDRA version. This warning message is displayed when these values do not match.

Resolution:

You must update the value for the MedDRA version in the **SIGNAL_MEDDRA_VER** table to ensure that it matches with the Oracle Argus Safety database value.

Multiple Enterprise Creation Messages

The following is the list of validation messages that are displayed while creating multiple enterprises in Oracle Argus Mart:

- · Source Enterprise Does Not Exist In Mart
- Enterprise Does Not Exist In Oracle Argus Safety
- Enterprise Does Not Exist For Configuration In Oracle Argus Mart

Source Enterprise Does Not Exist In Mart

Error Message:

Given Source enterprise does not exist in Oracle Argus Mart. Close the window and run application again.

Cause of Error:

While creating multiple enterprises in Oracle Argus Mart, you must enter an enterprise name which can be used as a template to create other enterprises. This enterprise is referred to as the Source Enterprise.

If the name of the Source Enterprise that you have entered while creating multiple enterprises does not exist in Oracle Argus Mart, this validation message is displayed.

Resolution:

The name of the Source Enterprise that you enter while creating multiple enterprises must exist in Oracle Argus Mart.



Enterprise Does Not Exist In Oracle Argus Safety

Error Message:

From the list provided, no enterprise exists in Oracle Argus Safety. Close the window and run application again.

Cause of Error:

The name of the enterprises that you enter while creating multiple enterprises in Oracle Argus Mart must also exist in the Oracle Argus Safety database.

If these enterprise names do not exist in Oracle Argus Safety, this validation message is displayed.

Resolution:

You must ensure that the name of the enterprises that you enter while creating multiple enterprises in Oracle Argus Mart exist in the Oracle Argus Safety database.

Enterprise Does Not Exist For Configuration In Oracle Argus Mart

Error Message:

From the list provided, no enterprise is valid for configuration in Mart. Close the window and run application again.

Cause of Error:

This validation message is displayed if all the enterprise names that you have entered on the Multiple Enterprise Creation screen already exist in the Oracle Argus Mart database.

Resolution:

You must ensure that the enterprise names that you want to create in Oracle Argus Mart using the Multiple Enterprise Creation screen do not already exist in Oracle Argus Mart.

SMQ-CMQ Loop Error

Error Message:

Error in $p_set_Child_Record$ while processing term code self referencing parent child relationship leading to an infinite loop

Cause of Error:

There is an SMQ, which is a Parent in the hierarchy, and has also been referenced as a Child in the hierarchy. This is termed as the Self Referencing Parent Child relationship, which leads to an infinite loop.

Resolution:

You must ensure that an SMQ, which serves as a Parent in the hierarchy, must not also be present as a Child in the hierarchy.



A

Configure Standalone Installation Topology for Standalone Agent

In this chapter:

- Prerequisite
- To configure a standalone agent:

Prerequisite

Oracle Data Integrator Master and Work Repository Schema are already created. For more details, see

https://docs.oracle.com/middleware/1212/odi/ODING/ create_schemas.htm#ODING860 > Chapter 3 Creating the Oracle Data Integrator Master and Work Repository Schema.

To configure a standalone agent:

1. Start the configuration wizard.

To begin domain configuration, navigate to the *ORACLE_HOME/oracle_common/common/bin directory*, and start the WebLogic Server Configuration Wizard.

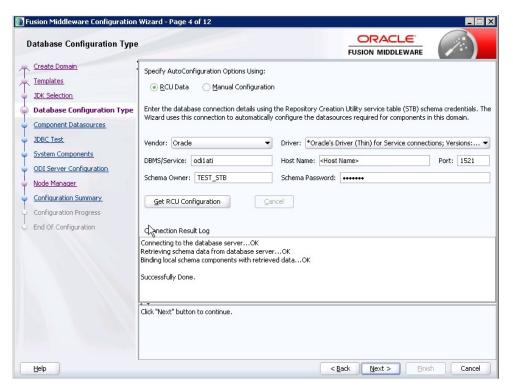
- On Unix—./config.sh
- On Windows—config.cmd

The Configuration Wizard appears.

- Create Domain—Select Create a new Domain, verify the domain location, and click Next.
- Templates—From the list of available templates, select Oracle Data Integrator -Standalone Agent - 12.2.1.0 [odi], and click Next.
- 4. JDK Selection—Select the **JDK** installed on Host, and click **Next**.
- Database Configuration Type—Select RCU.

Enter the Repository Details, and click **Get RCU Configuration**.

When the **Connection Result log** displays the message *Successfully Done*, click **Next**.



- **6.** Component Datasources—The details of schemas created using RCU appears. Verify the schema details, and click **Next**.
- 7. JDBC Test—Test the database connection, and click **Next**.
- 8. System Components—Make sure that the System Components is same as the name of the physical agent present in the ODI Studio. That is, the Physical Agent Name in the ODI Studio must be same as System Component (Agent Name).

Click Next.

ODI Server Configuration—Select Server Listen Address as the IP address of the Host

Enter **Server Listen Port** as the port number defined for the physical agent in the ODI Studio.

Click Next.

- Node Manager—Select Per Domain Custom Location, verify the path, and click Next.
- Configuration Summary—The Agent Name appears under System Component > ODI.

Click Create.

12. Configuration Progress—The progress of the domain creation process appears.

On successful completion of the Agent, a message stating *Domain Created Successfully.* appear.

Click Next.

13. End of Configuration—Domain Configuration Succeeded appears with the Domain Name and the Domain Location.

Click Finish to exit the wizard.



B

Configure Standard Installation Topology for Java EE Agent

In this chapter:

- Prerequisite
- To configure a Java EE agent:

Prerequisite

Oracle Data Integrator Master and Work Repository Schema are already created. For more details, see

https://docs.oracle.com/middleware/1212/odi/ODING/ create_schemas.htm#ODING860 > Chapter 3 Creating the Oracle Data Integrator Master and Work Repository Schema.

To configure a Java EE agent:

1. Start the configuration wizard.

To begin domain configuration, navigate to the *ORACLE_HOME/oracle_common/common/bin directory*, and start the WebLogic Server Configuration Wizard.

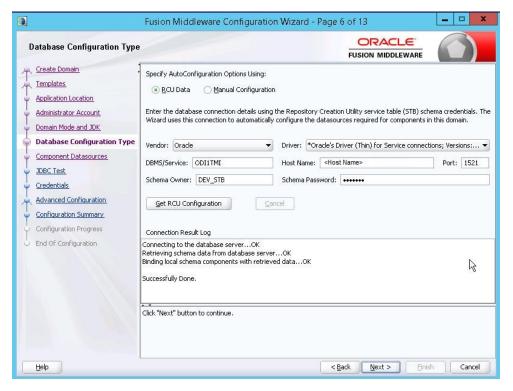
- On Unix—./config.sh
- On Windows—config.cmd

The Configuration Wizard appears.

- Create Domain—Select Create a new Domain, verify the domain location, and click Next.
- Templates—From the list of available templates, select the following templates, and click Next.
 - Oracle Enterprise Manager 12.2.1 [em]
 - Oracle Data Integrator Console 12.2.1.0 [odi]
 - Oracle Data Integrator Agent 12.2.1.0 [odi]
 - Oracle Data Integrator Agent Libraries 12.2.1.0 [odi]
- Application Location—Verify the Domain, and the Application location, and click Next.
- **5.** Domain Mode and JDK Selection—Specify the Username and Password for the Administrator Account, and click **Next**.
- 6. Database Configuration Type—Select RCU.

Enter the Repository Details, and click Get RCU Configuration.

When the ${\bf Connection}\ {\bf Result}\ {\bf log}\ {\bf displays}\ {\bf the}\ {\bf message}\ {\it Successfully}\ {\it Done},\ {\bf click}\ {\bf Next}.$



- 7. Component Datasources—The details of schemas created using RCU appears. Verify the schema details, and click **Next**.
- 8. JDBC Test—Test the database connection, and click **Next**.
- 9. Credentials—Enter the username and password, and click **Next**.
- 10. Advanced Configuration—Select the following, and click Next.
 - Administration Server
 - Node Manager
 - Managed Server, Clusters and Coherence
 - Deployment and Services
- 11. Administration Server—Change the Listen Address to the IP address of the host.
- Node Manager—Select the Node Manager Type as Per Domain Custom Location.

For Node Manager Credentials, enter the **Username** and **Password**, and click **Next**.

- 13. Managed Server—Specify the managed server details, and click Next.
 - Server Name: <Any Name>
 - Port: <Port of the Agent as configured in the ODI Studio>
 - Server Groups: Select JFR-MAN-SVR
- **14.** (Optional) Clusters—Specify the cluster details, if required, and click **Next**.



- 15. Coherence Cluster—Make no changes, and click Next.
- 16. Machines—Click Add, enter the following details, and click Next.
 - Enter Name: <Any Name>
 - Node Manager Listen Address: Select IP Address of the Host
 - Node Manager Listen Port: Any unused Port
- Assign Server to Machines—Click > button to move the Admin Server and
 ODI Server to the Machine, and click Next.
- 18. Deployment Targeting—Click > button to move the **Deployments** to **Targets**. Similarly, select the **Library** and **Application** folder (one at a time), and move them to the **Targets**. Click **Next**.
- Service Targeting—Click > button to move Services into Targets.
 Move all the available services one by one into Targets.
 Click Next.
- **20.** Configuration Summary—Verify the details, and click **Create**.
- Configuration Progress—The progress of the domain creation process appears.
 On successful completion, click Next.
- 22. End of Configuration—A message appears as Oracle Weblogic Server Configuration Completed with the Domain Location and the URL for the Admin Server.
- 23. (Optional) To start the Admin Server immediately after exiting the wizard, select the check box **Start Admin Server**.
- 24. Click Finish to exit the wizard.

