Oracle® Governance, Risk and Compliance Intelligence

Implementation Guide

Release 3.0.1

Part No. E17127-01

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Oracle Governance, Risk and Compliance Intelligence Implementation Guide, Release 3.0.1

Part No. E17127-01

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Oracle Governance, Risk and Compliance Intelligence Implementation Guide, Release 3.0.1

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- Are the implementation steps correct and complete?
- Did you understand the context of the procedures?
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Preface

Intended Audience

Welcome to Release 3.0.1 of the *Oracle Governance, Risk and Compliance Intelligence Implementation Guide.*

Oracle Governance, Risk and Compliance Intelligence (GRCI) Implementation Guide for Release 3.0.1is intended for information technology personnel and privileged users responsible for installing and configuring the GRCI application.

See Related Information Sources on page viii for more Oracle E-Business Suite product information.

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Structure

Related Information Sources

Oracle Governance, Risk and Compliance Intelligence User's Guide for Release 3.0.1.

This guide provides information on how to use the Governance, Risk and Compliance Intelligence application.

Do Not Use Database Tools to Modify Oracle E-Business Suite Data

Oracle STRONGLY RECOMMENDS that you never use SQL*Plus, Oracle Data Browser, database triggers, or any other tool to modify Oracle E-Business Suite data unless otherwise instructed.

Oracle provides powerful tools you can use to create, store, change, retrieve, and maintain information in an Oracle database. But if you use Oracle tools such as SQL*Plus to modify Oracle E-Business Suite data, you risk destroying the integrity of your data and you lose the ability to audit changes to your data.

Because Oracle E-Business Suite tables are interrelated, any change you make using an Oracle E-Business Suite form can update many tables at once. But when you modify Oracle E-Business Suite data using anything other than Oracle E-Business Suite, you

may change a row in one table without making corresponding changes in related tables. If your tables get out of synchronization with each other, you risk retrieving erroneous information and you risk unpredictable results throughout Oracle E-Business Suite.

When you use Oracle E-Business Suite to modify your data, Oracle E-Business Suite automatically checks that your changes are valid. Oracle E-Business Suite also keeps track of who changes information. If you enter information into database tables using database tools, you may store invalid information. You also lose the ability to track who has changed your information because SQL*Plus and other database tools do not keep a record of changes.

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About Oracle Governance, Risk and Compliance Intelligence

Product Overview

Oracle Governance, Risk and Compliance Intelligence (also referred to as GRCI, GRI, or GRC Intelligence), Release 3.0.1, is an intelligence reporting application that extracts data from Oracle Enterprise Governance, Risk and Compliance Manager (also referred to as EGRCM or Enterprise GRC Manager), Release 8.0.1 and Oracle Application Access Control Governor (AACG), Release 8.5.1.

> **Note:** AACG, Release 8.5.1, is one of the products within Oracle's Governance, Risk and Compliance Controls Suite (GRCC).

The Oracle Governance, Risk and Compliance Intelligence solution is designed to enhance your visibility into the organization's compliance readiness and responsiveness by providing certification, controls, issues, risks, and testing diagnostics and out-of-the-box management reports. By using Oracle Governance, Risk and Compliance Intelligence, you can drill from high-level to detailed information to effectively plan, model, report, and analyze GRCI activities. You can identify potential issues early and take informed and timely corrective actions.

GRCI Sourced from EGRCM

EGRCM 8.0.1 is one of the sources of GRCI 3.0.1, and information such as Processes, Controls, Significant Accounts, Risks and Issues are extracted from EGRCM and loaded into the GRCI data store. The creation of the GRCI Star Schema, Extraction, Transformation and Load of EGRCM data into the GRCI star schema is accomplished using ODI scripts. For further details on implementing EGRCM based GRCI, please refer to Chapter 2.

GRCI Sourced from AACG

- **GRCI Analytics Integration Overview**

The source of GRCI Release 3.0.1 data store is AACG 8.5.1 and information such as policies, entitlements, exclusions, conflicts etc., are loaded into GRCI staging tables hosted in the GRCI (data store) schema. This data load is accomplished in a 'push' fashion as opposed to the traditional 'extract' method and it is called Analytics Integration.

- A tab called 'Analytics Integration' is available on the 'Application Configuration' screen. This captures the setup information related to the integration.

- Conflict run in AACG 8.5.1 is enriched with 'AACG data services' to load data into GRCI staging tables.

- **Analytics Integration Schemas**

  The analytics integration component of AACG application uses two schemas to create necessary data for analysis by GRCI application. One schema (referred to as ag_access) stores AACG specific data in tables prefixed with LAA_ and TMP_ and another schema (also referred to as gri or GRI) contains the staging tables used by GRCI ETL process. This gri schema contains all database objects used by the GRCI application.

- **Staging Tables Load**

  The gri schema contains the staging tables (prefixed with GRI_S), which act as an interface between AACG and GRCI applications. These tables are populated when the user executes the Conflict Run process in AACG application.

  > **Note:** Check the AACG documentation for details on how to configure the application to connect to GRCI staging schema and load data into these staging tables.

  The staging (GRI_S_) tables are loaded during every execution of Conflict Run and data is updated in the staging tables in an update-else-insert fashion. Here are two examples:

1. If the entitlement description or entitlement status changes in AACG, the AACG data services component will pick up the changes during the next Conflict Run, and update the staging tables GRI_S_ENTITLEMENT and GRI_S_ENTITLEMENT_TL with the new values.

2. If the status of a Conflict Path changes from Approved to Rejected in AACG, the AACG data services component will pick up the changes during the next Conflict Run and update the staging table GRI_S_CONFLICT_PATH.

- **GRCI Star Schema Tables Load**

  Data in the GRCI staging schema is refreshed during every execution of Conflict

Run in AACG. So as a best practice it is recommended that GRCI administrator execute the ODI based ETL packages immediately after every successful execution of Conflict Run (for ex: Run-1) in AACG. This would refresh the content of GRCI star schema tables and users can visualize the latest values in OBIEE based dashboards and reports. If the ETL packages are not executed before the next Conflict Run (for ex: Run-2) in AACG, the data in GRCI staging tables will be overwritten before the previous Run's (Run-1) changes being propagated to GRCI star schema tables.

About This Guide

This document explains how to install the Oracle Governance, Risk and Compliance Intelligence application. The information contained in this document is subject to change as the product technology evolves and as hardware, operating systems, and third-party software are created and modified. This document is intended for information technology personnel and authorized users responsible for installing and configuring the Oracle Governance, Risk and Compliance Intelligence, Release 3.0.1 application.

About Languages

The Oracle Governance, Risk and Compliance Intelligence, Release 3.0.1, is available in English for Oracle Enterprise Governance, Risk and Compliance Manager, Release 8.0.1, and Oracle Application Access Controls Governor, Release 8.5.1.

This product supports all tier 1 localizations for the following eleven languages:

- Chinese Traditional
- Chinese Standard
- Spanish
- French
- Japanese
- Portuguese (Brazilian)
- Korean
- German
- Italian
- Danish

- Dutch

Oracle Help for the Web

This section identifies the steps to follow to install the GRI_3.0_Help.zip files into the OBIEE file directory.

> **Note:** When you download and save the 3.0 Help Files to your system, please make sure you save the file with the extension (.zip).

Installing Oracle GRC Intelligence Help

Prerequisites:

Select the .zip help files [GRI_30_Help.zip] to download for Oracle Help for the Web.

Please obtain Doc ID 989255.1 from My Oracle Support or Classic Metalink, to access the GRCI_Help.zip file.

OHW Installation Steps:

Download GRI_30_Help.zip file.

1. In the Oracle Business Intelligence Enterprise Edition (OBIEE) copy the file into the following location:

   {OracleBI}\oc4j_bi\j2ee\home\applications\analytics\analytics\Missing_

2. Extract the GRI_30_Help.zip file.

To view the Help icon at the Dashboard level:

Copy the existing help.gif from this location:

- C:\OracleBI\oc4j_bi\j2ee\home\applications\analytics\analytics\res\s_oracle10\views

Copy and paste the help.gif file to the following two locations:

- C:\OracleBI\oc4j_bi\j2ee\home\applications\analytics\analytics\res\s_oracle10\images folder

- C:\OracleBI\web\app\res\s_oracle10\images

Prerequisites

Before you use Oracle Governance, Risk and Compliance Intelligence, Release 3.0.1, you must:

- Install Oracle Database 11gR2

Note: If Oracle Database 11gR2 has previously been installed, it is not necessary to reinstall.

- Oracle Data Integrator 10.1.3.5
- Install Oracle Business Intelligence Enterprise Edition 10.1.3.4.0
- Install either one or all of the following applications:
  - Oracle Enterprise Governance, Risk and Compliance Manager, Release 8.0.1
  - Oracle Application Access Control Governor 8.5.1
- AACG Interface tables (tables with name starting as GRI_S_...) should be deployed in the same schema as the tables for data warehouse ('GRI' Schema).

In the OBIEE server, copy the existing help.gif from the following location:

- C:\OracleBI\oc4j_bi\j2ee\home\applications\analytics\analytics\res\s_oracle10\views

Then copy the file from the proceeding location to the following location:

- OracleBI\oc4j_bi\j2ee\home\applications\analytics\analytics\res\s_oracle10\images folder.

Recommendation

It is recommended that the EGRCM database installation and the GRCI data warehouse database that has 'GRI' schema be in the same network.

It is recommended that the AACG database installation and the GRCI data warehouse database that has 'GRI' schema be in the same network.

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Installing Oracle Governance, Risk and Compliance Intelligence 3.0.1

Overview

This chapter covers the installation procedures for GRCI 3.0.1 when the source application is either EGRCM 8.0.1 or AACG 8.5.1, and/or both.

The following files are available:

- GRI_301_Common_Scripts.zip
- GRI_301_EGRC_Scripts.zip
- GRI_301_ACG_Scripts.zip
- GRI_301_ODI.zip
- GRI_301_OBIEE.zip

Installation involves:

1. Executing Scripts: Creating the Data Model and populating the configuration data.
2. Installing ODI.
3. Installing OBIEE Reports.

Executing Scripts

Overview

This section describes how to execute scripts against the database using the batch file executing CallBatch, which in turn calls auto_load_scripts.bat or auto_load_scripts.sh.

The file GRI_301_Common_Scripts.zip contains the following files and folders:

1. ETL
2. Model
3. Seed_Translation_Data
4. auto_load_scripts.bat
5. auto_load_scripts.sh
6. ClassBatch.class
7. ConsoleEraser.class
8. CallBatchBIP.class

> **Note:** CallBatchBIP.class is not used for 3.0.1 implementation.

The batch/shell file automates the entire script loading process to just one step. The batch/shell file accepts the location of the script file directory as an argument.

Preparation Steps for Executing Script

Perform these steps before you run the batch/shell file. Once setup correctly this can be used to run against multiple sources with minimal changes to the file.

1. Create a new schema/user for reporting schema.

   a) create user gri identified by gri;

   > **Note:** Assign the following roles and right to the newly created user.

   b) grant resource, connect to gri;

   c) grant create view to gri;

   d) grant unlimited tablespace to gri;

   e) grant create table to gri;

   f) grant Create procedure to gri.

2. Install SQLPlus on the machine where the batch/shell file will be run.
3. Download and Install xdk developer kit from the following location:

http://www.oracle.com/technology/tech/xml/xdk/software/prod/xdk_java.html

Download the Complete File xdk_java_9_2_0_6_0.tar.gz from the following location:

http://www.oracle.com/technology/tech/xml/xdk/software/production10g/utilsoft.html

Directions

Install GNU gzip.

Download the Oracle XDK for Java in .tar format.

Extract the distribution package into a directory. (Ex: #gzip -dc xdk_java.tar | tar xvf -)

The result should be the following files and directories:

- /bin - xdk executables and utilities
- /lib - directory for libraries
- /xdk - top xdk directory
- /xdk/demo - directory for demo files
- /xdk/doc - directory for documentation
- /xdk/admin - direcory for dband config files
- /xdk/*html. - doc navigation files
- /xdk/license.html - copy of license agreement

4. Provide the connection details in tnsnames.ora if SQL client is installed, or provide TNS entry as described in example below.

   Eg: DB_TNS=<host>:<port>/<service name>

5. Provide values for the following Environment variables in the batch/shell file. To edit the batch file open it with any text editor and update the values as follows.

Environmental Variable	Use	Default Value	.bat Example

USER_OPT	This variable is used to as an option for running the entire script (scripts and DLF) or only the DLF load.	1	**.bat :**SET USER_OPT=1 **.sh :**export USER_OPT=1;
DB_TNS	Used to provide the oracle TNS to connect to while running scripts using SQLPlus.	GRI	**.bat :**SET DB_TNS=DEV_230 **.sh :**export DB_TNS=DEV_230;
DB_USER	Used to provide the Oracle database user password.	GRI	**.bat :**SET DB_USER=gri **.sh :**export DB_USER=gri;
DB_HOST	This variable would be used by transx to load dlf files.	NA	**.bat :**SET DB_HOST=10.10.176 .132 **.sh :**export DB_HOST=10.10.176 .132;
DB_PORT	This variable is used to set the database port.	1521	**.bat :**SET DB_PORT=1521 **.sh :**export DB_PORT=1521;
DB_SID	This variable is used to set the database sid.	orcl	**.bat :**SET DB_SID=grci **.sh :**export DB_SID=grci;
JAVA_HOME	To set JAVA_HOME. Comment this line if already set.	NA	**.bat :**SET JAVA_HOME=C:\P rogram Files\Java\jdk1.5.0_ 16 **.sh :**export JAVA_HOME=/scrat ch/user/jdk1.6.0_14;

JDBCVER	To set the JDBC version of the JDBC files being used. (values 11 or 12)	12	**.bat :**SET JDBCVER=12 **.sh :**export JDBCVER=12;
INSTALL_ROOT	To set the xdk install root. "xdk" has the transx files required for dlf upload.	C:\xdk	**.bat :**SET INSTALL_ROOT=C:\xdk **.sh :**export INSTALL_ROOT=/scratch/user/Desktop/transx;
CLASSPATHJ	The location of the JDBC driver files (classes12.zip and nls_charset12.jar) and xdb_g.jar needs to be supplied here.	Default value specified in batch file.	
ORACLE_HOME	To set ORACLE_HOME. Comment if already set.	NA	**.bat :**SET ORACLE_HOME=C:\Apps\db\oracle102 **.sh :**export ORACLE_HOME=/scratch/user/product/11.1.0/db_1;

6. The database jdbc driver files should be available for transx to operate. The required files are xdb_g.jar (available as part of Oracle database server install), classes%JDBCVER%.zip and nls_charset%JDBCVER%.jar (JDBCVER being the JDBC version being used).

   The files nls_charset12.jar and classes12.zip are not part of Oracle 11g install, download the files from the link provided below.

   Download classes12.zip and nls_charset12.jar from the following location on OTN:

   http://www.oracle.com/technology/software/tech/java/sqlj_jdbc/htdocs/jdbc9201.html

   Oracle9i 9.2.0.5 JDBC Drivers -> nls_charset12.jar

   Oracle9i 9.2.0.8 JDBC Drivers -> classes12.zip

   Update the CLASSPATHJ environment variable with the appropriate path for these

two files.

The file xdb_g.jar, needs to be located on the machine and the CLASSPATHJ variable needs to be updated accordingly.

IMPORTANT:PATH and CLASSPATH do not need any changes if the other environment variables (INSTALL_ROOT, CLASSPATHJ, ORACLE_HOME and JAVA_HOME) have been set appropriately.

7. Once the required changes have been made in the batch/shell file, save and close the batch/shell file.

Execution Steps

Executing the scripts using CallBatch.

The steps to be followed to complete the execution are detailed below:

1. Unzip files: GRI_301_EGRC_Scripts.zip and GRI_301_ACG_Scripts.zip
2. Open command prompt in Windows and shell in Linux and navigate to the location of the folder - GRI_301_Common_Scripts.
3. Set the classpath: for Windows : set classpath=.;%classpath%; for Linux : export CLASSPATH=.:$CLASSPATH;
4. Assign permissions in case of Linux (chmod 777 auto_load_gri_scripts.sh).
5. Execute the command: java CallBatch;
   - a) Select Windows or Linux
   - b) Select the option to Install EGRCM or AACG or both
   - c) Provide the path where the folders GRI_301_EGRC_SCRIPTS and GRI_301_ACG_Scripts are present. (.. for parent directory since we are already in the folder.)
   - d) Enter the database password of the target schema

Important Information

The program execution results in the execution of auto_load_scripts.bat or auto_load_scripts.sh.

The file "Execution.log" created in the GRI_301_Common_Scripts folder captures the executing CallBatch message for review purposes.

The following table is used to provide context information on the Source Application

EGRCM.

The insert statements for these tables are not part of the scripts supplied as part of GRCI. This is a manual step.

An example of scripts is provided below:

Commit the transactions:

Eg:

Insert into GRI_A_SRC_SYSTEM_INFO (SRC_SYS_ID,SRC_SYS_NAME,SRC_SYS_DESC,SRC_TYPE_CODE,CTX_NAME,ACTIVE_FLAG,SOURCE_URL,LDAP_TYPE,POLICY_COMPONENT ,CONFLICT_COMPONENT,CREATION_DATE,CREATED_BY,LAST_UPDATE_DATE ,LAST_UPDATED_BY,LAST_UPDATE_LOGIN) values ('EGRCM' ,'Enterprise GRC' , 'Enterprise Governance Risk and Compliance description text' , 'EGRCM' , 'GRI' , 'Y' , 'http://egrcm_host:egrcm_port' , 'ODI' , '-' , '-' , sysdate , 0 , sysdate , 0 , 0); commit;

Populate the GRI_A_SRC_CTX_TBL table with the values for the ODI names and source system identifier.

Create entries for the GRI and LDAP_GRI

Commit the transactions:

> **Important:** Entries for both of the Contexts (GRI and LDAP_GRI) are mandatory.

Eg:

1. Insert into GRI_A_SRC_CTX_TBL (SRC_SYS_ID,CTX_NAME) VALUES ('EGRCM', 'GRI');
2. Insert into GRI_A_SRC_CTX_TBL (SRC_SYS_ID,CTX_NAME) VALUES ('EGRCM', 'LDAP_GRI');.

Installing ODI Code

Setting up ODI Code and Importing ODI Code

The GRI_301_ODI_.zip contains the following files:

1. Master_Repository.zip
2. Common folder
3. EGRCM folder
4. SOD Mart folder

5. auto_load_odi.bat

6. auto_load_odi.sh

Important: Please do not unzip Master_Repository.zip as ODI utilizes this file in zip format.

Important: Set the value for Oracle database parameters PROCESSES, SESSIONS and TRANSACTIONS as shown below.

Run the following commands as DBA user:

- alter system set PROCESSES=600 scope=SPFILE;
- alter system set TRANSACTIONS=700 scope=SPFILE;
- alter system set SESSIONS=600 scope=SPFILE; Restart the database instance for the changes to take effect.

The steps outlined below can be classified into 3 categories.

1. **Required for Master Repository Import: Steps 1 through 8**

   These steps would typically be performed only once during the life cycle of GRC product. If the master repository has already been created and the connections have been defined, the import starts from step 9 and the steps 1 to 8 can be ignored.

2. **Setup of odiparams.bat: Step 9**

   This is a one time activity which involves setting the batch file and providing proper values for the environment variables used.

3. **Import Objects: Steps 10 through 12**

   These steps are required to import the various objects that would be part of the ODI code. The supplied **auto_load_odi.bat / auto_load_odi.sh** needs to be provided with appropriate values for the variables.

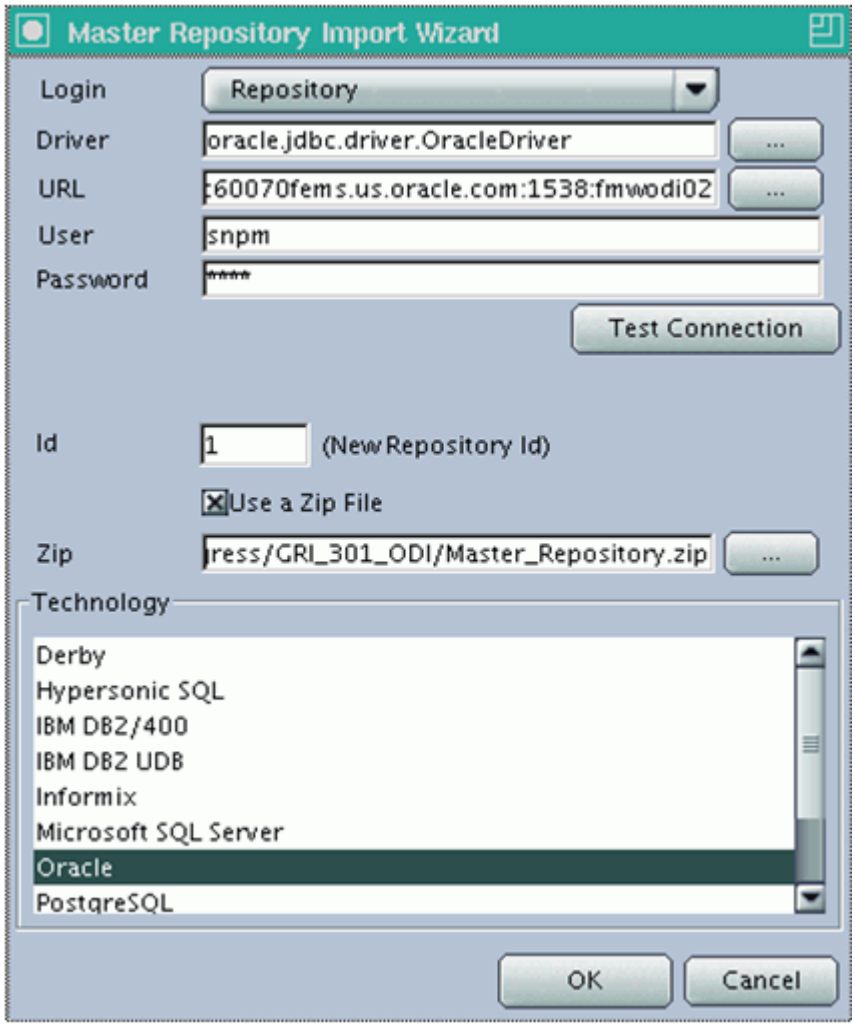
Setting up ODI Code and Importing ODI Code: Steps 1 through 12

1. Install ODI.

2. Create a schema called gri_master.

3. Use mimport.bat for windows installation or mimport.sh for linux installation to access the master repository import wizard. The files are available in ODI_HOME/bin or ODI_HOME\bin folder depending on the installation.

4. Provide appropriate values to connect to the database where the master repository needs to be imported as shown below.



Select the appropriate Technology.

5. Provide a value for the ID and select "Use a Zip File" and provide the correct path of the Master_Repository.zip file, supplied as part of GRI_301_ODI.zip.

6. After the master repository import wizard finishes successfully, open ODI Topology Manager.

   Provide valid JDBC connection details for database (GRI_3.0 and EGRCM) and LDAP connections.

   Important: Make sure that the data server names are not changed.

   Select the physical schemas that have to be mapped to these data servers. After the

master repository import wizard finishes successfully, open ODI Topology Manager.

- Go to Physical Architecture tab.
- Edit the LDAP technology and provide the URL for LDAP connection.
- Generate the encrypted LDAP password to be used in the LDAP connection, using the following command:

Example:java -cp oracledi\drivers\snpsldapo.jar com.sunopsis.ldap.jdbc.driver.SnpsLdapEncoder <enter password here>

Reference used: <enter password here>: Enter the LDAP password, which you will be use for the LDAP connection with ODI.

There are two Aliases.txt files, select the correct file according to the ODI install performed and place it in the appropriate folder:

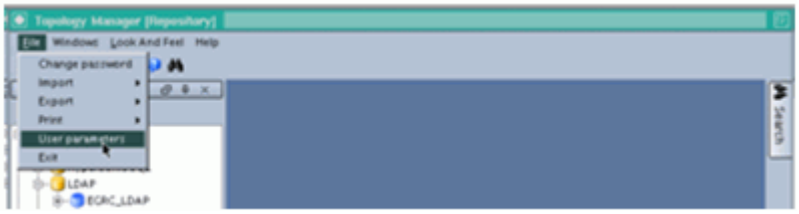
- ODI 10.1.3.4.0
- ODI 10.1.3.5

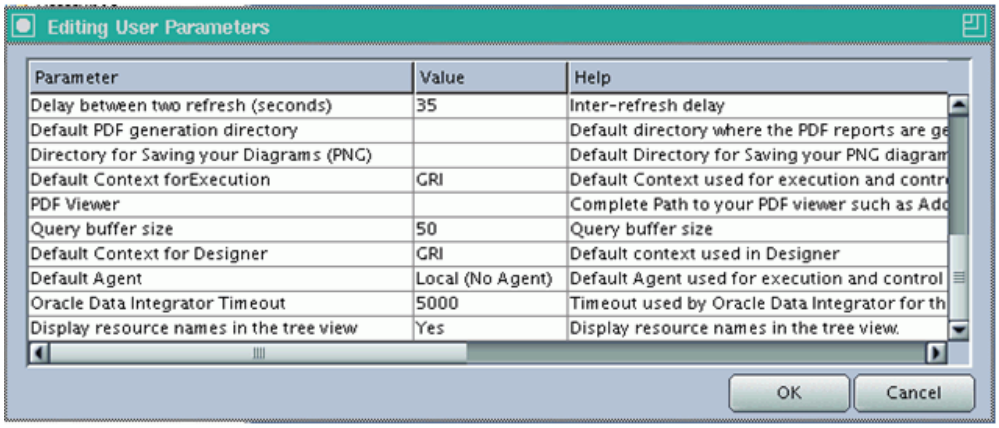
Place the Aliases.txt at a location on the ODI server, e.g. C:\Aliases.txt, in the ETL folder.

The Aliases files are packaged under the GRI_301_EGRC_Scripts\MODEL folder.

In your designer ODI Tool, you open User Parameters and increase the value for " Oracle Data Intergrator Timeout"; you specify a value high enough so that the connection does not time out.

Note: This is an important and mandatory step.





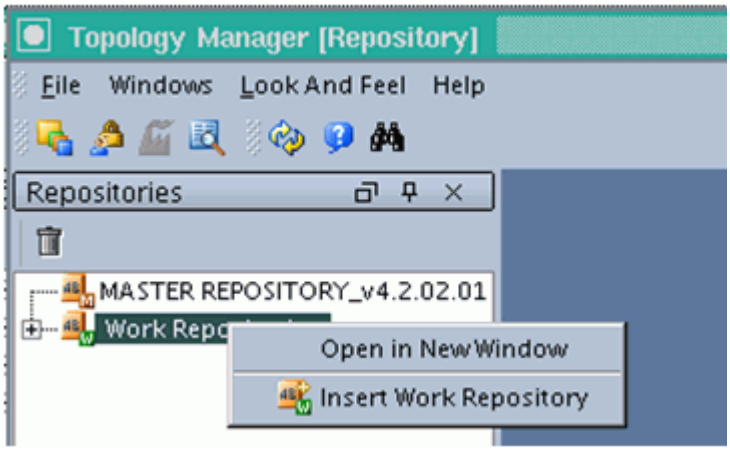
Edit the Oracle technology and provide database connection details for EGRCM and GRI data servers.

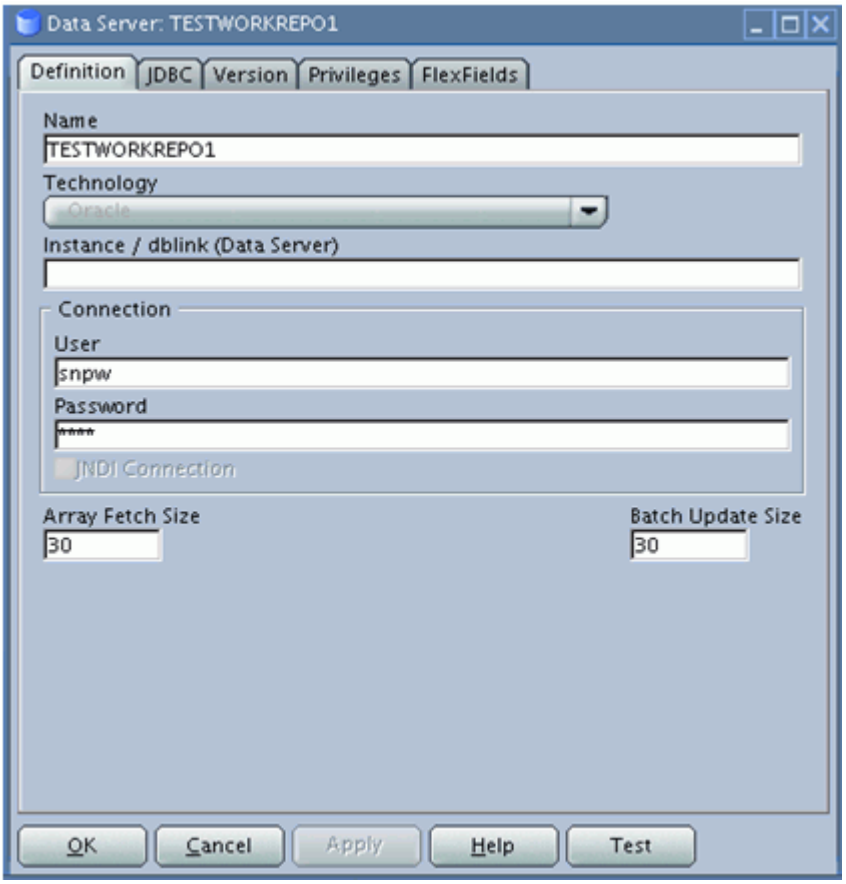
Make sure that the proper physical schemas have been selected.

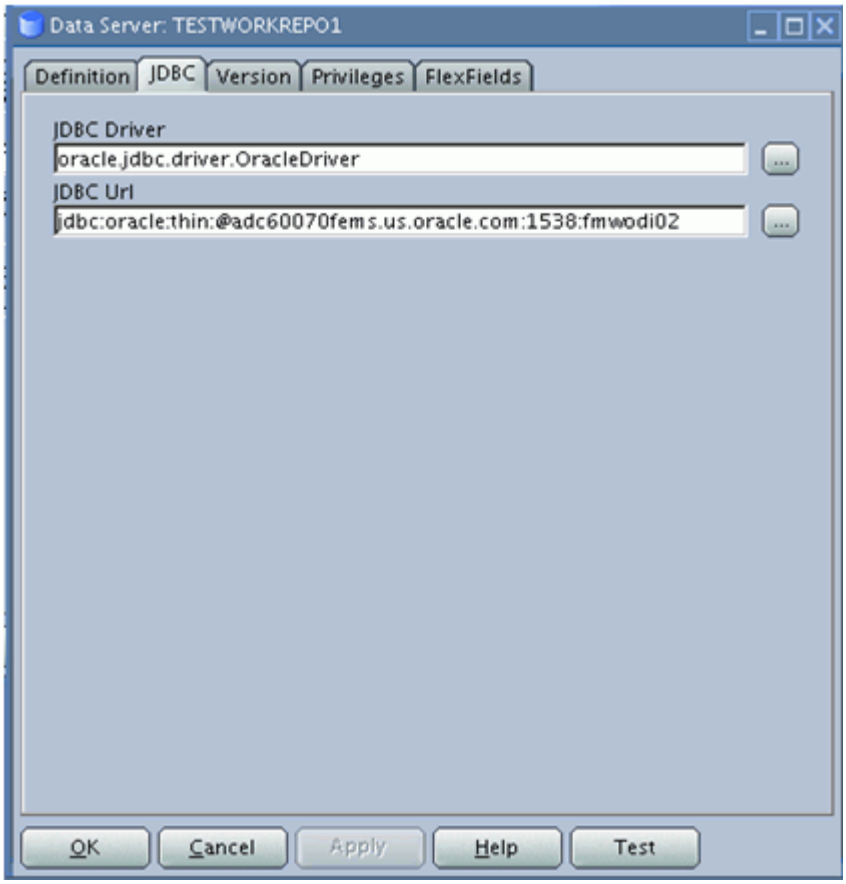
7. Create a schema called gri_work.

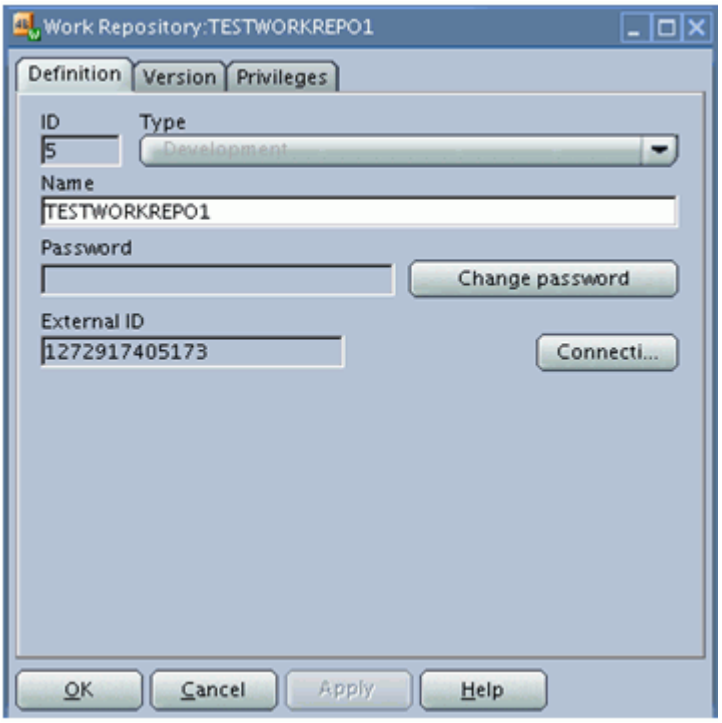
8. Open Topology manager and insert a work repository (Provide the database user created above in step 7 in the JDBC connection details.).

   Create the Work Repository with ID value greater than 2 as shown in image below.




Data Server: TESTWORKREPO1
Definition
JDBC
Version
Privileges
FlexFields
Name
TESTWORKREPO1
Technology
Oracle
Instance / dblink (Data Server)
Connection
User
snpw
Password
JNDI Connection
Array Fetch Size
30
Batch Update Size
30
OK
Cancel
Apply
Help
Test


Data Server: TESTWORKREPO1
Definition
JDBC
Version
Privileges
FlexFields
JDBC Driver
oracle.jdbc.driver.OracleDriver
JDBC Url
jdbc:oracle:thin:@adc60070fems.us.oracle.com:1538:fmwodi02
OK
Cancel
Apply
Help
Test



9. Set up the odiparams.bat/odiparams.sh file.

   Depending on the OS being used to setup ODI selection of odiparams.sh or odiparams.bat needs to be made.

   odiparams.bat/odiparams.sh is available in **ODI_HOME\bin (Windows)** or **ODI_HOME/bin (Linux)**.

   Locate the file and edit it using any text editor to update values for the following parameters:

Environment Variable	Use	Example
ODI_SECU_DRIVER	This variable provides information about the driver which will be used for database connection. We would be using the JDBC drivers to connect to Oracle in most cases.	**.bat :** ODI_SECU_DRIVER=oracle.jdbc.driver.OracleDriver **.sh :** ODI_SECU_DRIVER=oracle.jdbc.driver.OracleDriver

ODI_SECU_URL	This is the driver URL to be used to connect to the database.	**.bat :**set ODI_SECU_URL=jdbc:oracle:thin:@DB:1521:orcl **.sh :** ODI_SECU_DRIVER=jdbc:oracl e:thin:@DB:1521:orcl
ODI_SECU_USER	The username of the master repository schema.	**.bat :**set ODI_SECU_USER=gri_mst **.sh :** ODI_SECU_USER=gri_mst
ODI_SECU_ENCODED_PASS	The encoded password for master repository database user. Steps to encode password described above. The password to be placed here needs to be encoded using ODI's encoding agent. Navigate to <ODI_HOME>\bin (Windows) or <ODI_HOME>\bin (Linux) at command prompt (Windows) or terminal (Linux) and execute the following command: "agent ENCODE <PASSWORD>" (Windows) or "./agent.sh ENCODE <PASSWORD>", here <password> represents the actual password.	**.bat :** ODI_SECU_ENCODED_PASS=c6yHoUsvzzG6yG0wSeyqqqQb **.sh :** ODI_SECU_ENCODED_PASS=c6yHoUsvzzG6yG0wSeyqqqQb
ODI_SECU_WORK_REP	Name of the work repository.	**.bat :** ODI_SECU_WORK_REP=ODI_WRK_1 **.sh :** ODI_SECU_WORK_REP=ODI_WRK_1
ODI_USER	The ODI username.	**.bat :** ODI_USER=SUPERVISOR **.sh :** ODI_USER=SUPERVISOR

ODI_ENCODED_PASS	The encoded password for ODI user. This password is already set for SUPERVISOR password SUNOPSIS and requires no change if no additional ODI users have been created. The password to be placed here needs to be encoded using ODI's encoding agent. Navigate to <ODI_HOME>\bin (Windows) or <ODI_HOME>\bin (Linux) at command prompt (Windows) or terminal (Linux) and execute the following command: "agent ENCODE <PASSWORD>" (Windows) or "./agent.sh ENCODE <PASSWORD>", here <password> represents the actual password.	**.bat :**set ODI_ENCODED_PASS=LELKIELGLJMDLKMGHEHJDBGBGFDGGH **.sh :** ODI_ENCODED_PASS=LELKIELGLJMDLKMGHEHJDBGBGFDGGH

10. Loading the ODI environment.

    ODI_JAVA_HOME needs to be set for the shell script **auto_load_odi.sh**, this should point to the java home location.

    INSTALL_FILE is the location of the folder GRI_301_ODI for windows or GRI_301_ODI for Linux.

    ODI_HOME is the location of ODI home where the file is to be executed.

    INSTALL_PARAMneeds to be set to import only EGRCM related ODI maps, or only AACG related ODI Maps, or both

11. **a) Using auto_load_odi.bat**

    Make sure that **odiparams.bat** has values set for all environment variables listed above in Step 10. Open a new command prompt and navigate to the folder having the file auto_load_odi.bat, execute the following command.

    C:\GRI_301_BIP_ODI> auto_load_odi.bat

    The successful completion of the process would end in the ODI objects (interfaces, packages, etc.) being imported correctly. To log the execution messages for review later.

    C:\GRI_301_BIP_ODI> auto_load_odi.bat>c:\odi.log

b) Using auto_load_odi.sh

Make sure that **odiparams.sh** has values set for all environment variables listed above in Step 10. Open a new command prompt and navigate to the folder having the file auto_load_odi.sh, execute the following command. Assign permissions to auto_load_odi.sh file(chmod 755 auto_load_odi.sh).

./auto_load_odi.sh

The successful completion of the process would end in the ODI objects (interfaces, packages, etc.) being imported correctly. To log the execution messages for review later.

./auto_load_odi.sh>/odi.log

12. Open "Operator" connecting to the master and work repository created above.

    Go to Scenarios tab, locate the files "**GRI_MASTER_EGRC_PKG Version 001**" and "**GRI_MASTER_PKG Version 001**"execute them to load the warehouse tables.

    The execution can be monitored for the Operators Execution tab.

    IMPORTANTOn Triggering GRI_MASTER_EGRC_PKG Version 001, a prompt for input values of pkg variables appears. The value for USER_ID can be supplied here, this USER ID will be populated into the WHO columns (CREATED_BY, LAST_UPDATED_BY and LAST_UPDATE_LOGIN) that are part of each GRI table. This is an informational field, providing value for USER_ID is optional.

Installing OBIEE Reports

The following files are available in the GRI_301_OBIEE.zip download:

Note: This is required for OBIEE reports/dashboards.

- GRCDiagnostic.zip
- GRCDWebcat.zip
- GRI_301_OBIEE_LANG.zip

  Note: This is required for languages other than English.

- logoncontrolmessages.xml
- productmessages.xml
- bg_banner.JPG

These files contain the repository, web-catalog and two xml files and an image file (to be used for branding the product). The files will be used in the steps below to install the repository and reports-dashboards respectively.

1. After you successfully install OBIEE, extract the delivered zip file GRCDiagnostic.zip. Place the GRCDiagnostic.rpd file in the C:\OracleBI\server\Repository folder.

2. In the C:\OracleBI\server\Config folder, edit the NQSConfig.INI file. Enter the name of the RPD file after "Star =" in the [REPOSITORY] section.

3. Place the GRCDWebcat.zip file in the C:\OracleBIData\web\catalog folder and unzip the file. The GRCDWebcat folder now appears in the Catalog folder.

4. In the C:\OracleBIData\web\config folder, edit the instanceconfig.xml file. Enter OracleBIData\web\config folder, edit the instanceconfig.xml file. Enter the path of the GRCDWebcat folder in between the tags.

5. Create the TNS entry to point to your GRCI schema in Oracle home directory.

6. Open the GRCDiagnostic.rpd in the Oracle BI Administration Tool and go to the Variable Manager under the Manage > Variables menu.

7. Update the GRI_DSN variable with the name of the TNS entry name.

8. Update the GRI_USER_ID with the database user ID.

9. Open the properties window for 'GRC Diagnostics > GRCI Connection Pool' in the Physical layer and provide the password for GRCI schema.

10. Save the changes in the Oracle BI Administration Tool.

11. Replace the xml and image file delivered as part of GRI_301_OBIEE.zip as mentioned below:

    - File "**bg_banner.jpg**" present in location \oc4j_bi\j2ee\home\applications\analytics\analytics\res\s_oracle10\b_mozilla_4\ is to be replaced with the file "bg_banner.jpg" available as part of delivered zip.

    - File "**productmessages.xml**" present in location \web\msgdb\l_en\messages\ to be replaced with the file "productmessages.xml" available as part of delivered zip.

    - File "**logoncontrolmessages.xml**" in location \web\msgdb\messages\ to be replaced with the file "logoncontrolmessages.xml" available as part of delivered zip.

This would enable the product name during logon and background image for dashboards.

> **Note:** For languages other than English, unzip the GRI_301_OBIEE_LANG.zip, place the contents of res folder (l_xx) in C:\OracleBIData\web\res\ folder.

12. Restart the Oracle BI Services.

13. Log into the OBIEE using this URL: http://<localhost>:<TCPport>/analytics, where <localhost> is the name of the machine or the IP address where OBIEE is installed, and <TCPport> is the Web Site TCP Port number.

14. The OBIEE login page loads.

15. The installation is now complete.

A

ETL Execution

This appendix covers the following topics:

- Execution Sequence for EGRCM
- Execution Sequence for AACG
- ETL Execution for EGRCM
- ETL Execution for AACG
- Execute a Package

Execution Sequence for EGRCM

Order of Execution for the ETL:

The following packages are placed into a single package **GRI_MASTER_EGRC_PKG**.

1. GRI_STAGE_EGRCM_PG
2. GRI_DIMENSIONS_EGRC_PKG
3. GRI_FACTS_EGRC_PKG
4. GRI_VIEWS_PKG

The order for execution of the **GRI_STAGE_EGRC_PKG** is as follows:

1. GRI_A_LOOKUP_ALL_PKG
2. GRI_S_ASSOCIATION_PKG
3. GRI_A_UDA_PKG
4. GRI_S_COMPONENTS_PKG
5. GRI_S_CONTROLS_ALL_PKG

6. GRI_S_RISKS_ALL_PKG
7. GRI_S_PERSPECTIVES_PKG
8. GRI_S_ASSESSMENTS_ALL_PKG
9. GRI_S_ISSUES_PKG
10. GRI_S_REMEDIATION_PKG
11. GRI_S_EGRC_ROLE_PKG
12. GRI_S_EGRC_USERS_PKG
13. GRI_S_ACTION_ITEMS_PKG
14. GRI_S_DELEGATION_PKG

> **Note:** Steps 4-11 can be run asynchronously, but only after the first three packages are run serially.

The order for execution of the **GRI_DIMENSIONS_EGRC_PKG** is as follows:

1. GRI_D_LANGUAGES_PKG
2. GRI_D_CURRENCIES_PKG
3. GRCD_USERS_MAIN_EGRC_PKG
4. GRI_D_ROLE_MAIN_EGRC_PKG
5. GRI_D_OBJECT_TYPES_PKG
6. GRI_D_ASMT_ACTVRSLT_UDA_PKG
7. GRI_D_ASMT_TINSRSLT_UDA_PKG
8. GRI_D_ASMT_TPLNRSLT_UDA_PKG
9. GRI_A_UDT_INFO_PKG
10. GRI_D_OBJECT_CLASSES_PKG
11. GRI_D_COMPONENTS_PKG
12. GRI_D_CONTROLS_ALL_PKG
13. GRI_D_RISKS_PKG

14. GRI_D_ACTION_ITEMS_PKG
15. GRI_D_PERSPECTIVES_PKG
16. GRI_D_ASSESSMENTS_PKG
17. GRI_D_ISSUES_PKG
18. GRI_D_REMEDIATION_PKG

> **Note:** Steps 5-13 can be run asynchronously, but only after the 1-5 packages are run and complete.

The **GRI_FACTS_EGRC_PKG** contains the following packages for loading the facts (Assessment and Issues), and the various associations; they should be loaded in the following order, and only after the loading of the Stage and Dimensions tables.

1. GRI_D_ROLE_USER_BG_EGRC_PKG
2. GRI_F_ASSOCIATION_PKG
3. Populate Date Association Procedure
4. GRI_F_CONTROL_ASSOC_DETAIL_INTR_PKG
5. GRI_D_RELATEDCONTROL_BG_PKG
6. GRI_D_COMP_ACTION_ITEMS_BG_PKG
7. GRI_D_PERSP_ASSOC_BG_PKG
8. GRI_F_ASSESSMENTS_PKG
9. GRI_F_ISSUES_PKG_1
10. GRI_F_ISSUES_PKG_2
11. GRI_D_ISSUES_REMED_PLANS_BG_PKG
12. GRI_D_REMED_PLANS_TASKS_BG_PKG
13. GRI_D_DEL_OBJ_RUNTIME_BG_PKG
14. GRI_D_DEL_PERSP_RUNTIME_BG_PKG
15. LOAD_DYNAMIC_RENDERER_PROC

Execution Sequence for AACG

Order of Execution for the ETL:

The following packages are placed into a single package **GRI_MASTER_EGRC_PKG**.

1. GRI_DIMENSIONS_PKG
2. GRI_BRIDGE_TABLES_PKG
3. GRI_FACTS_PKG

The order for execution of the **GRI_DIMENSIONS_PKG** is as follows:

1. GRI_INSTANCE_PKG
2. GRI_GENERIC_DIM_PKG
3. GRCD_USER_MAIN_PKG
4. GRI_POLICY_PKG
5. GRI_ENTITLEMENT_PKG
6. GRI_ACCESS_POINT_PKG
7. GRI_APPS_USER_PKG
8. GRI_D_RUN_PKG
9. GRI_EXCLUSION_PKG

> **Note:** Steps 4-8 may be run independent of each other, but the rest should be run in numeric order.

The bridge tables can be run independent of each other, and these are the packages present in the **GRI_BRIDGE_TABLES_PKG**. They should be run after the loading of all the dimensions.

1. GRI_D_ROLE_USER_BG_PKG
2. GRI_D_POLICY_GENERIC_DIM__BG_PKG
3. GRI_POLICY_DETAIL_BG_PKG
4. GRI_D_ENTLMNT_GENERIC_DIM_BG_PKG
5. GRI_D_ENTITLEMENT_AP_BG_PKG

6. GRI_D_USER_ACCESS_BG_PKG

The **GRI_FACTS_PKG** contains the following packages for loading the conflicts and conflict paths and they should be loaded in the following order and only after the loading of the dimensions and bridge tables.

1. GRI_F_CONFLICTS_T_PKG
2. GRI_D_POLICY_PREV_RUN_BG_PKG
3. GRI_F_CONFLICT_PATH_T_PKG
4. GRI_F_CONFLICT_PATH_T_PKG_2

ETL Execution for EGRCM

In the ODI Designer module, (N) GRI > EGRCM Mart > Packages; the user can then locate the following master package: GRI_MASTER_EGRC_PKG.

The stage tables related interfaces and packages are found by navigating in the ODI Designer module to (N) GRI > EGRCM Mart > Staging.

The dimension related interfaces and packages are found by navigating in the ODI Designer module to (N) GRI > EGRCM Mart > Dimensions.

The fact table and related interfaces and packages are found by navigating in the ODI Designer module to (N) GRI > EGRCM Mart > Facts.

There are three ETL Execution for EGRCM options:

Option 1:

1. Execute GRI_MASTER_EGRC_PKG Package.
2. This action triggers all the packages required to load the entire star schema.

Option 2:

Important: Execute the packages in the following order.

1. GRI_STAGE_EGRC_PKG – this package will load all the stage tables.
2. GRI_DIMENSIONS_EGRC_PKG – this package will load all the dimension tables.
3. GRI_FACTS_EGRC_PKG – this package will load all the fact tables.
4. GRI_VIEWS_PKG - this package will generate the views of the user defined objects.

Option 3:

Run individual table level packages, in the same order as in**Option 2**.

ETL Execution for AACG

In the ODI Designer module, (N) GRI > SOD Mart > Packages; the user can then locate the following master package: GRI_MASTER_PKG.

The dimension and bridge table related interfaces and packages are found by navigating in the ODI Designer module to (N) GRI > SOD Mart.

The fact table and related interfaces and packages are found by navigating in the ODI Designer module to (N) GRI > SOD Mart > Facts.

There are three ETL Execution for AACG options:

Option 1:

1. Execute GRI_MASTER_PKG Package.
2. This action triggers all the packages required to load the entire star schema.

Option 2:

Important: Execute the packages in the following order.

1. GRI_DIMENSIONS_PKG – this package will load all the dimension tables.
2. GRI_BRIDGE_TABLES_PKG – this package will load all the bridge tables.
3. GRI_FACTS_PKG – this package will load all the fact tables.

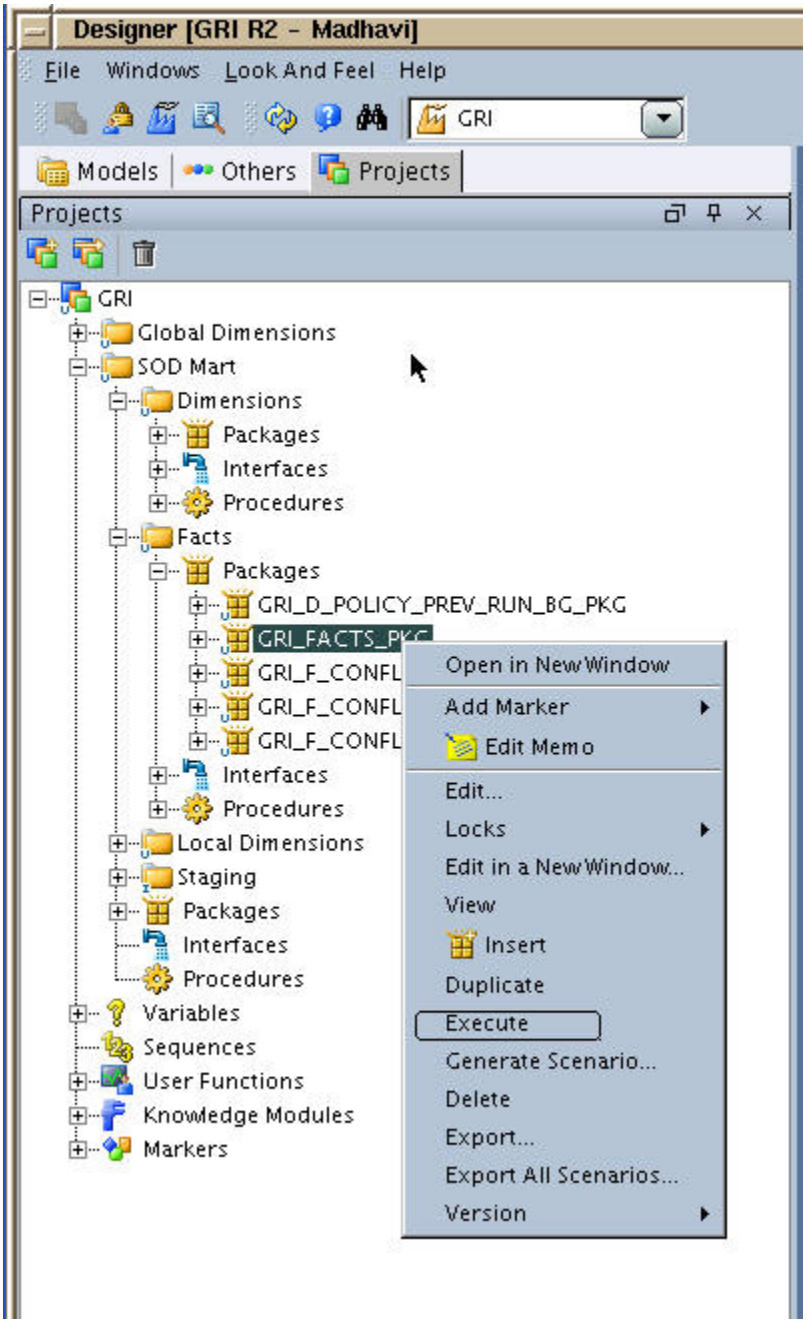
Option 3:

Run individual table level packages, in the same order as in **Option 2**.

Execute a Package

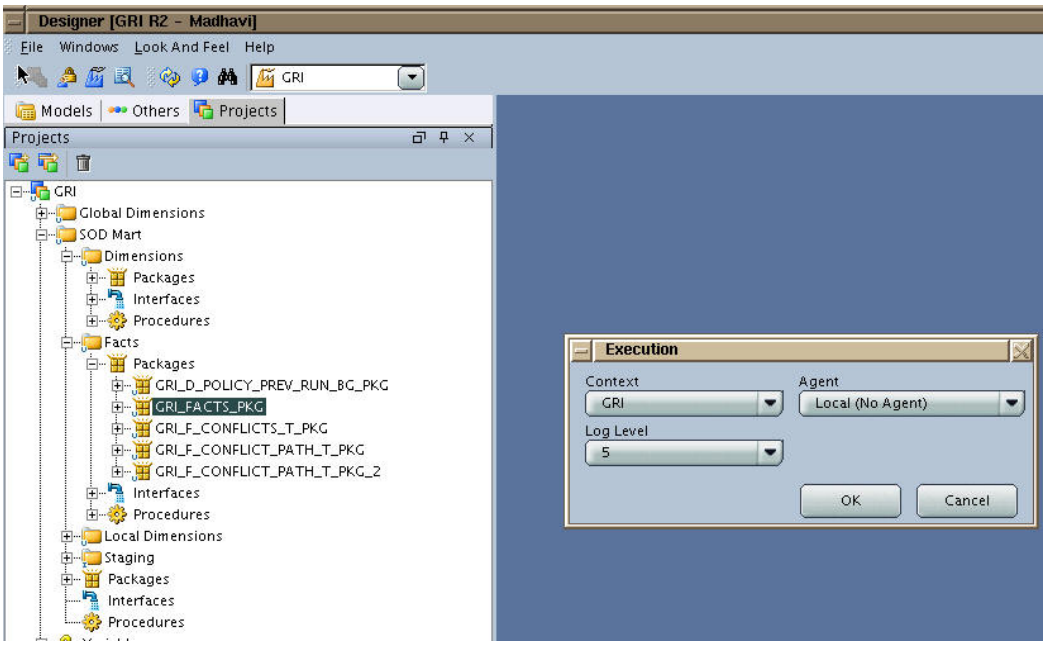
In order to execute a package, navigate to the ODI Designer and locate the required package to execute

Right click on that package, and then click Execute as shown below:



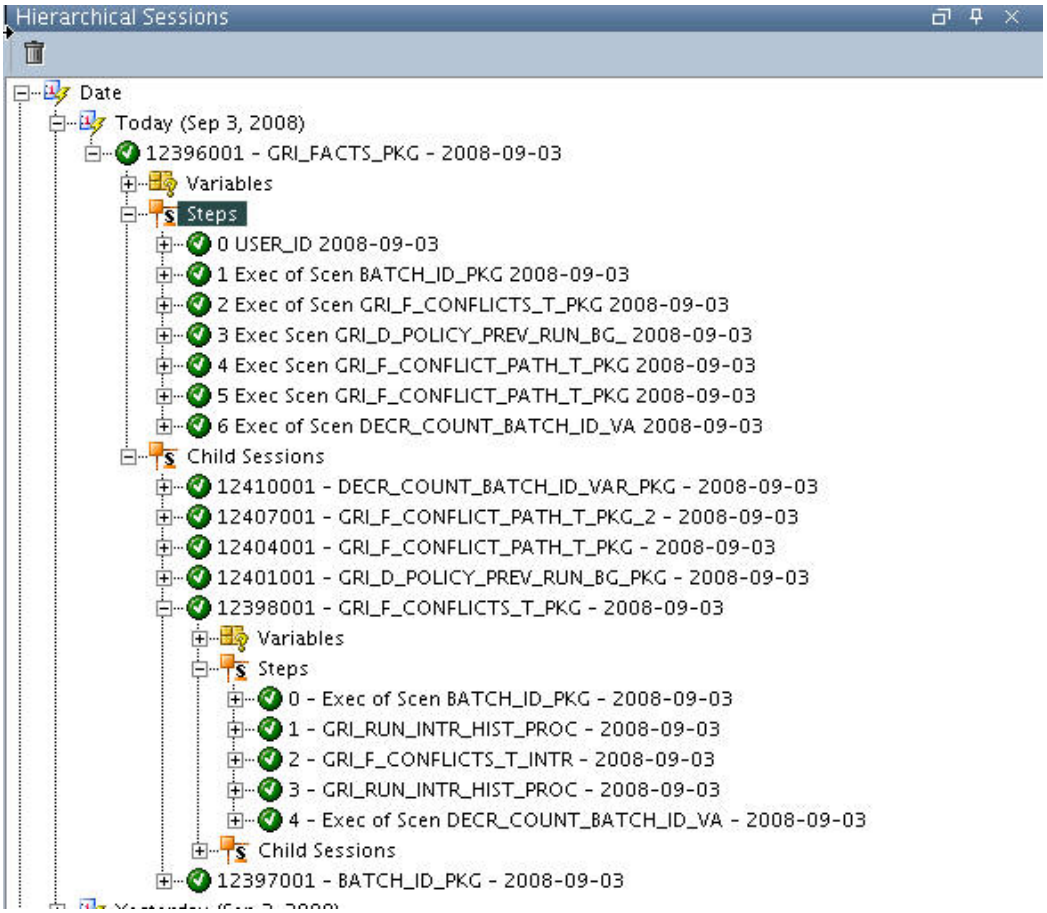
In the Execution window, select the context that was created as part of the ODI Code installation.

Click OK. This starts a session for the executed package.



The status of a session and its corresponding steps and tasks can be checked in, in the ODI Operator module.

In case of a higher-level package, such as one encapsulating multiple child packages, the status for each child package session can also be monitored.



Verify that the package has run successfully. The result of each task execution can be viewed in the Execution tab of Session Task window.

Verify the number of rows processed as part of each task in the session.

> **Note:** Please refer to the Oracle Data Integrator User's Guide for more detail on using the ODI Designer and ODI Operator modules.

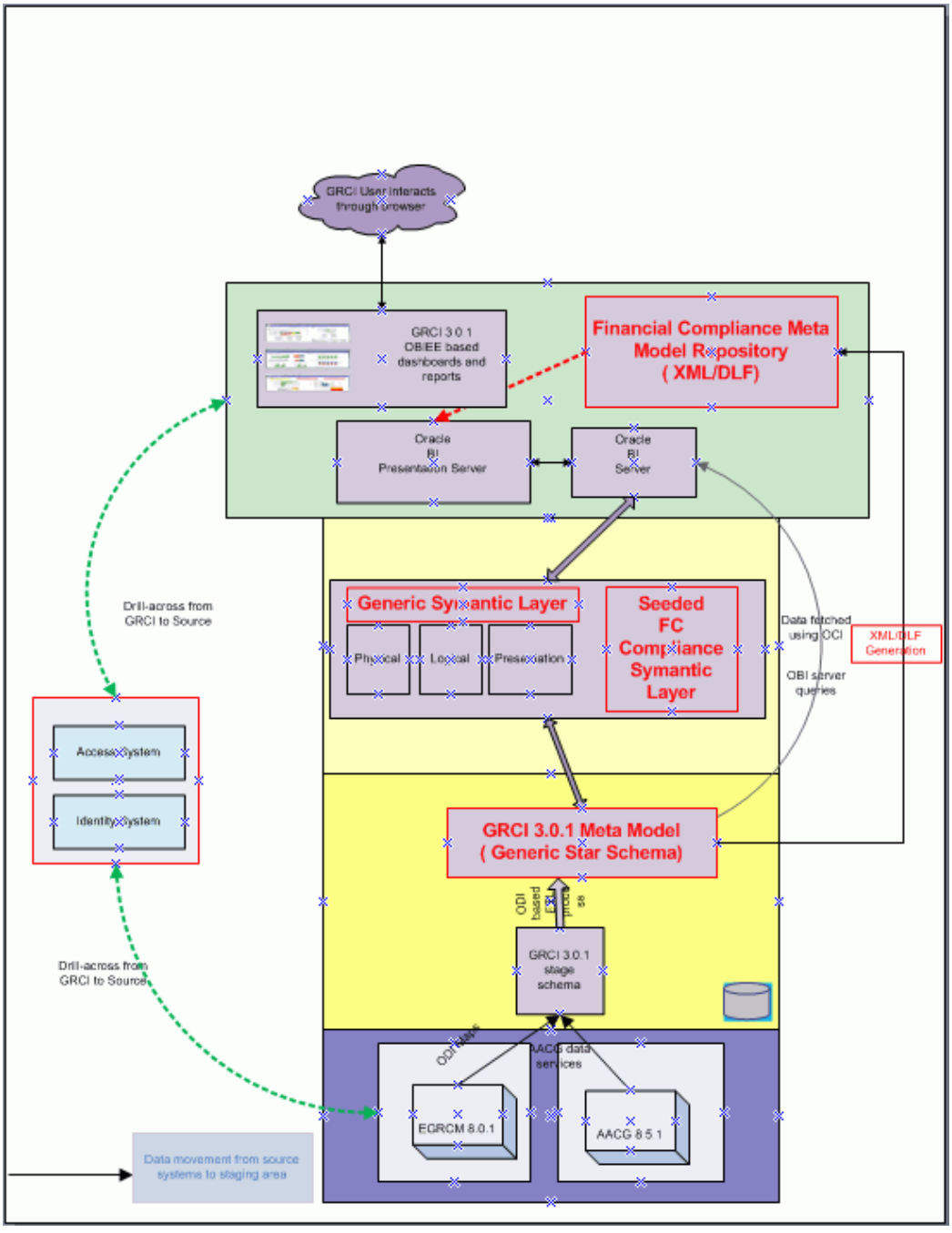
B

Architecture

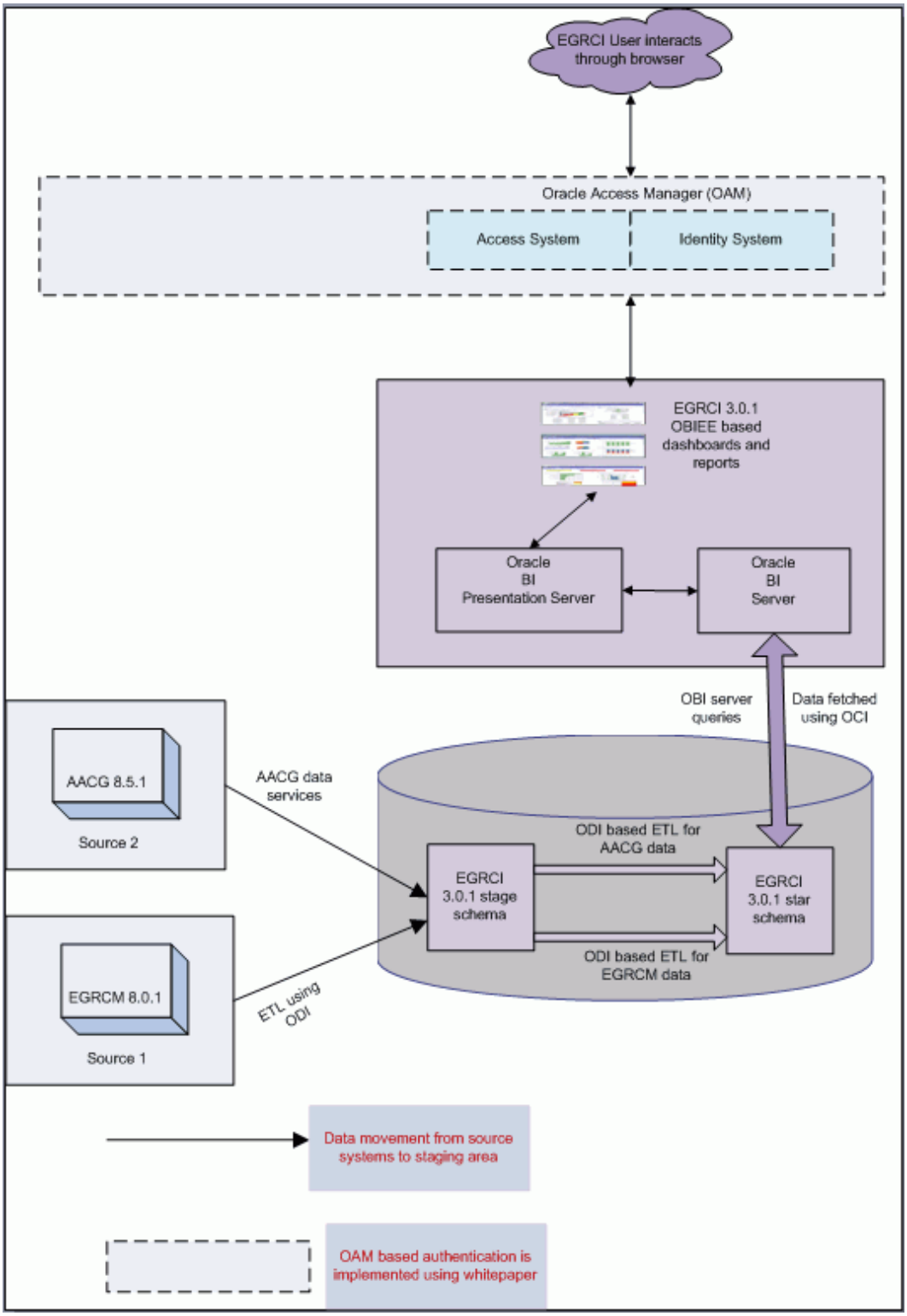
This appendix covers the following topics:

- Architecture Diagram
- Data Flow Diagram

Architecture Diagram



Data Flow Diagram



C

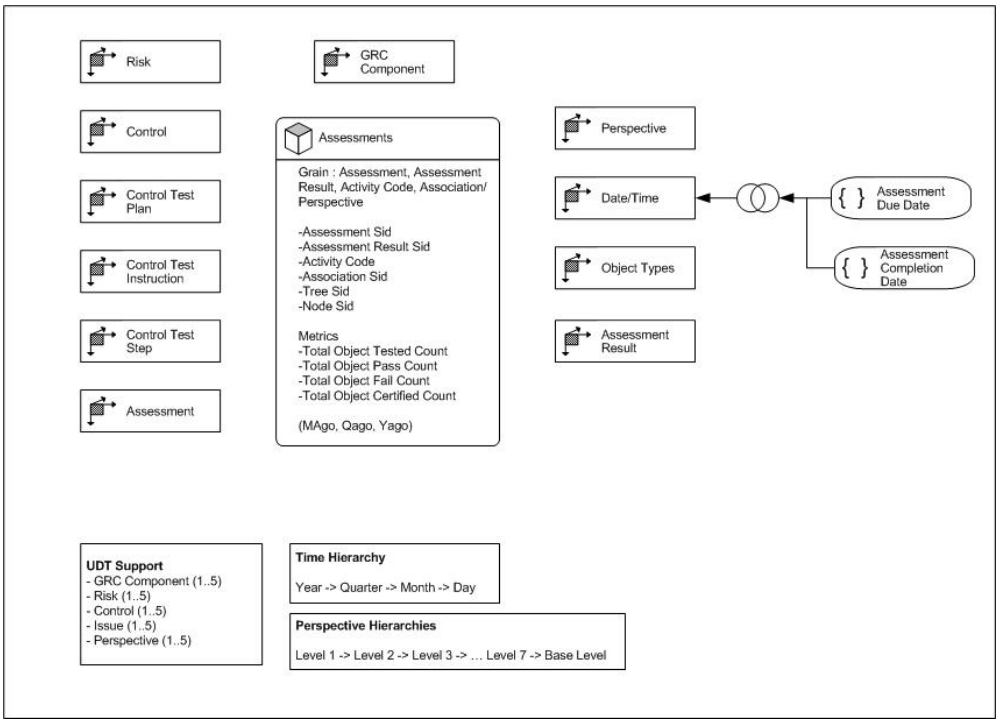
Logical and Physical Models

This appendix covers the following topics:

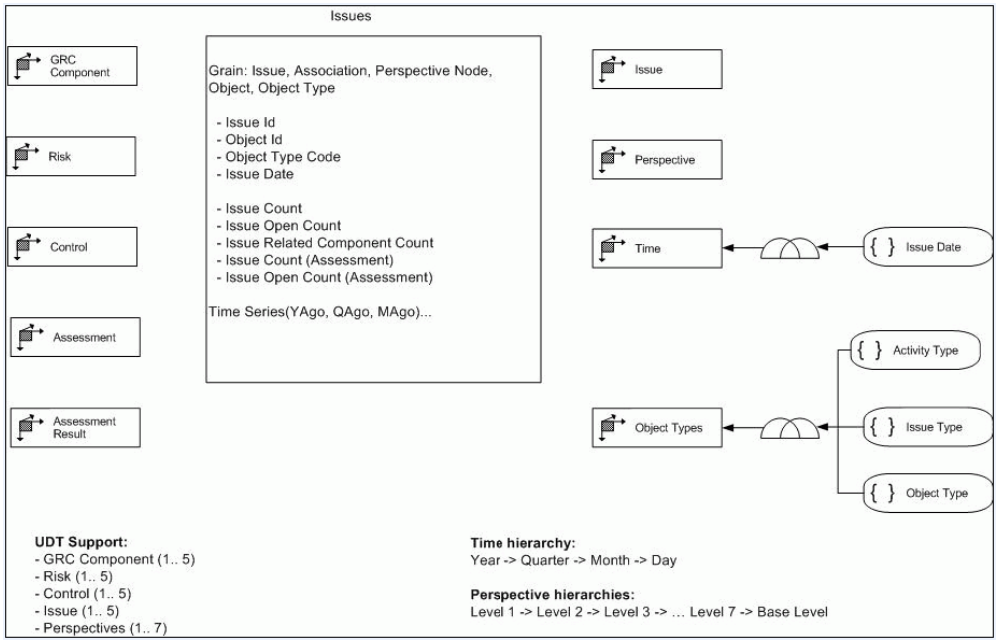
- GRCI 3.0.1 - EGRCM 8.0.1 Logical Model
- GRCI 3.0.1 - EGRCM 8.0.1 Physical Model
- GRCI 3.0.1 - AACG 8.5.1 Logical Model
- GRCI 3.0.1 - AACG 8.5.1 Physical Model

GRCI 3.0.1 - EGRCM 8.0.1 Logical Model

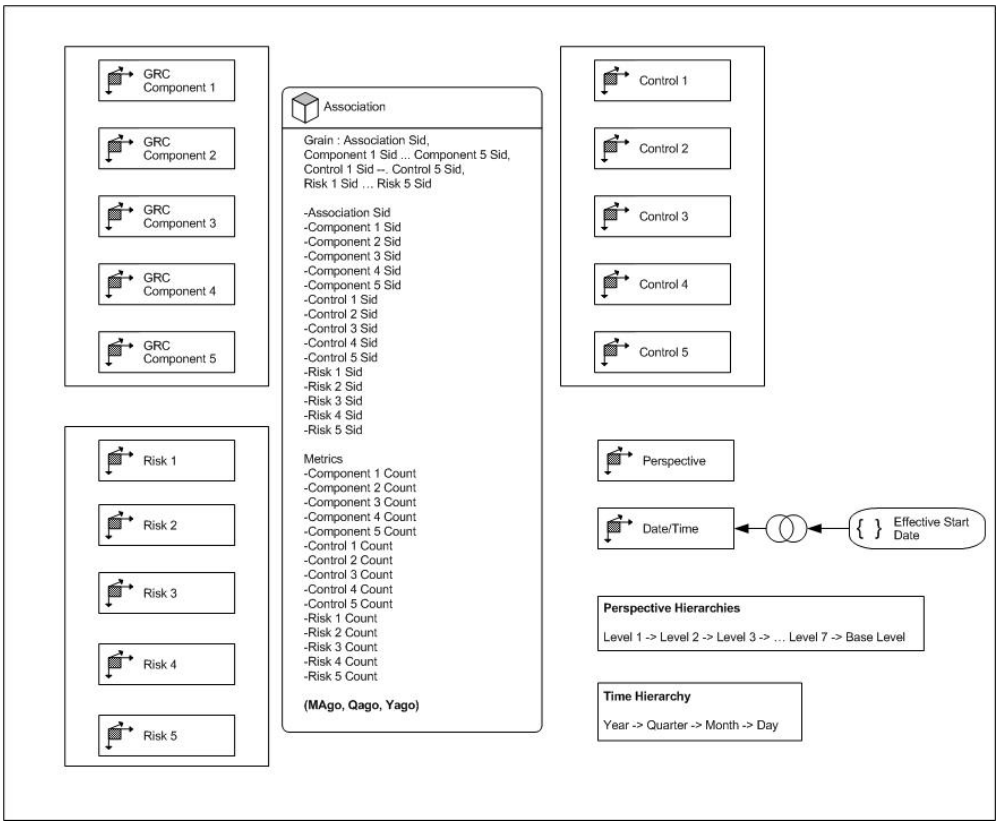
- **Assessments**


Risk
GRC Component
Control
Assessments
Perspective
Control Test Plan
Grain : Assessment, Assessment Result, Activity Code, Association/ Perspective
-Assessment Sid
-Assessment Result Sid
-Activity Code
-Association Sid
-Tree Sid
-Node Sid
Metrics
-Total Object Tested Count
-Total Object Pass Count
-Total Object Fail Count
-Total Object Certified Count
(MAgo, Qago, Yago)
Date/Time
Assessment Due Date
Control Test Instruction
Object Types
Assessment Completion Date
Control Test Step
Assessment Result
Assessment
UDT Support
- GRC Component (1..5)
- Risk (1..5)
- Control (1..5)
- Issue (1..5)
- Perspective (1..5)
Time Hierarchy
Year -> Quarter -> Month -> Day
Perspective Hierarchies
Level 1 -> Level 2 -> Level 3 -> … Level 7 -> Base Level

- **Issues**

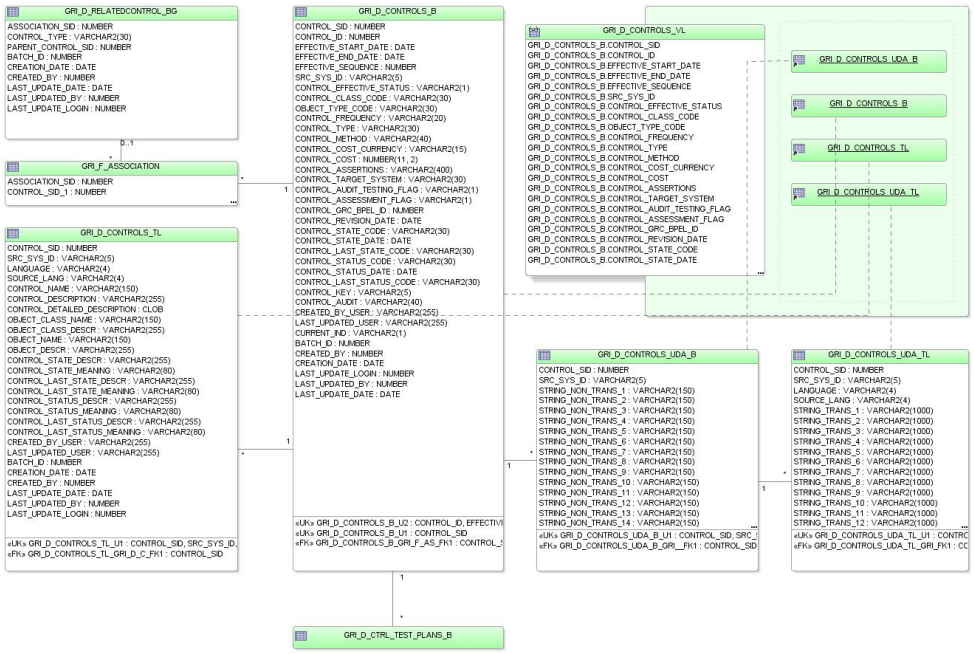


- **Association**

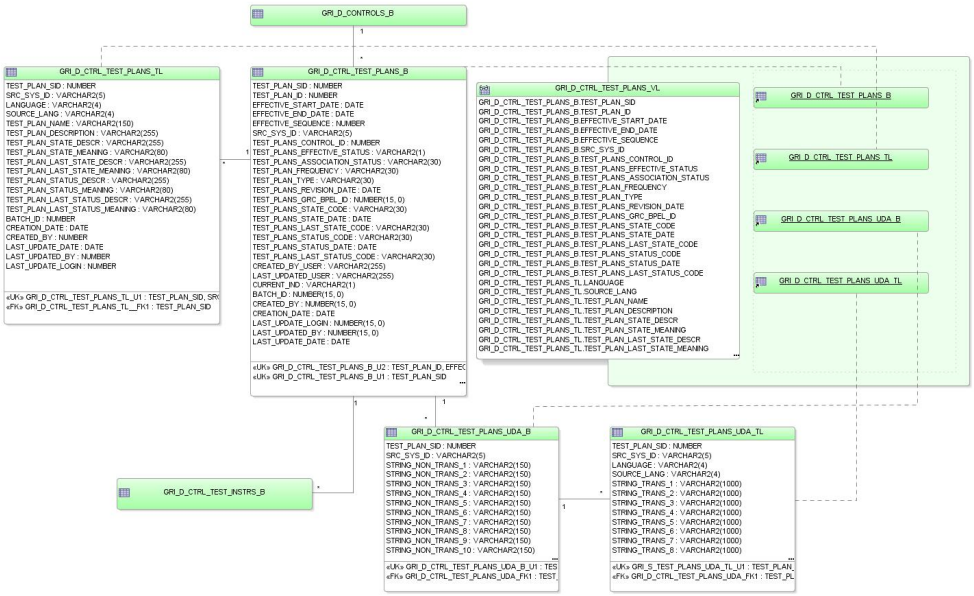


GRCI 3.0.1 - EGRCM 8.0.1 Physical Model

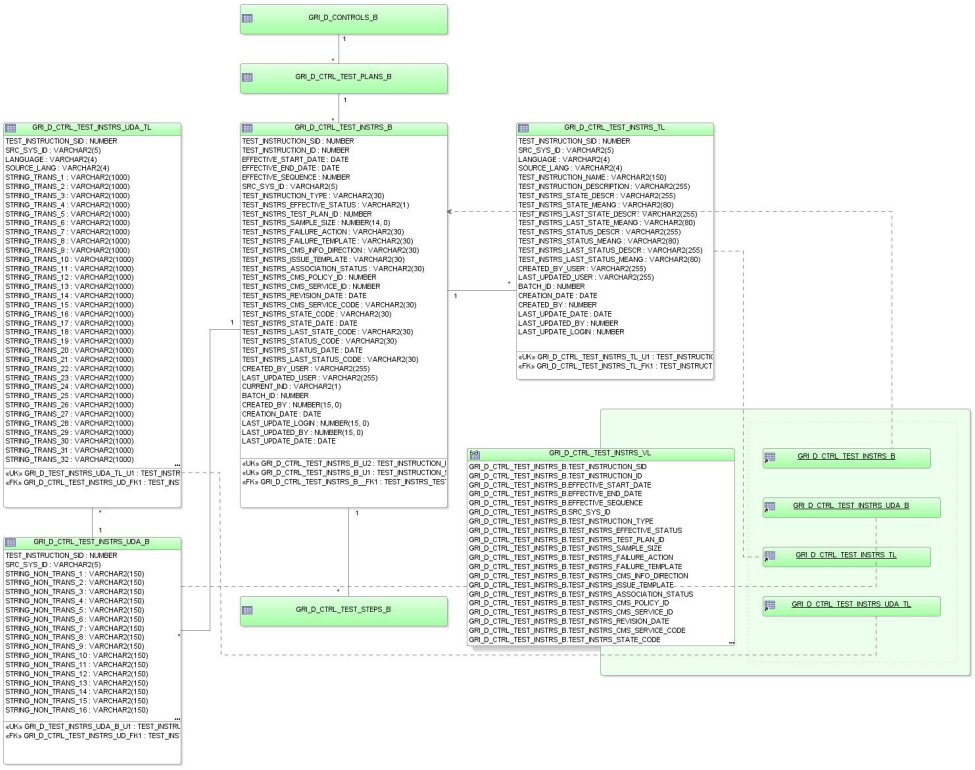
- **Controls**



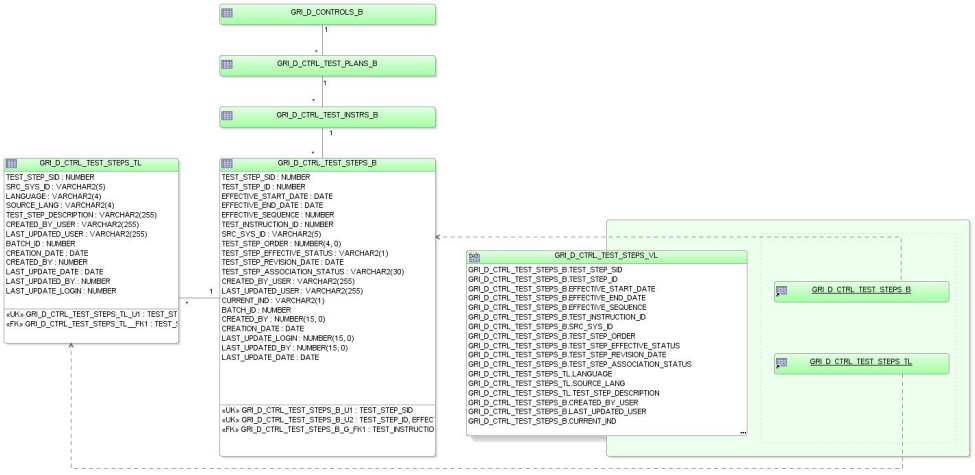
- **Test Plans**



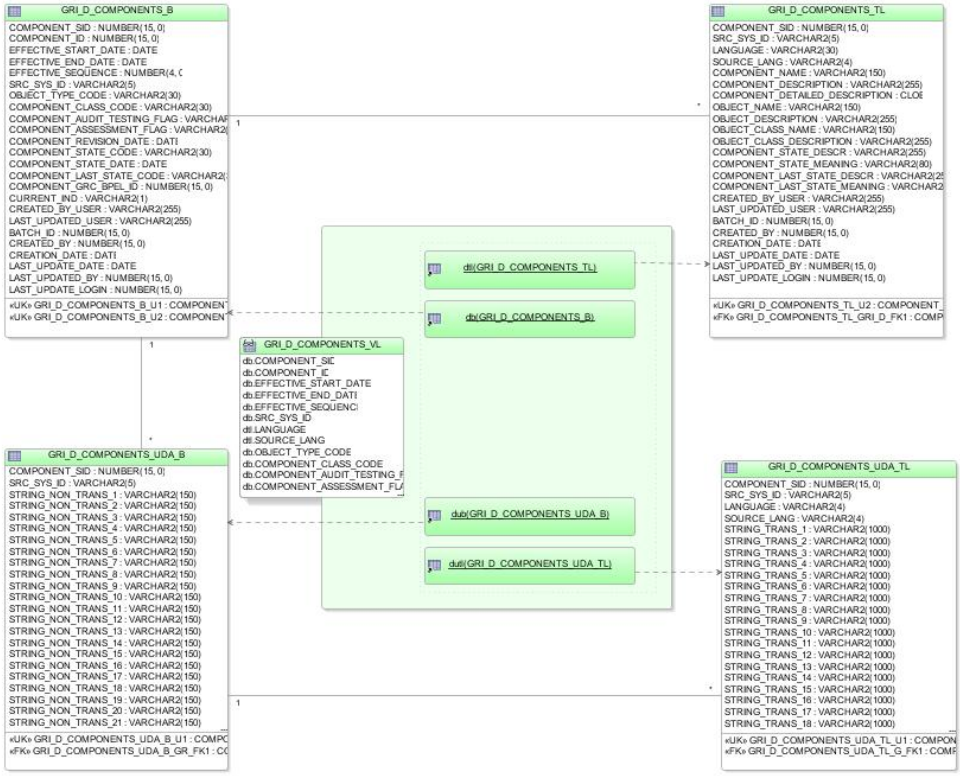
- **Test Instructions**



- **Test Steps**



- **Components**


GRI_D_COMPONENTS_B
COMPONENT_SID : NUMBER(15, 0)
COMPONENT_ID : NUMBER(15, 0)
EFFECTIVE_START_DATE : DATE
EFFECTIVE_END_DATE : DATE
EFFECTIVE_SEQUENCE : NUMBER(4, 0
SRC_SYS_ID : VARCHAR2(5)
OBJECT_TYPE_CODE : VARCHAR2(30)
COMPONENT_CLASS_CODE : VARCHAR2(30)
COMPONENT_AUDIT_TESTING_FLAG : VARCHAR
COMPONENT_ASSESSMENT_FLAG : VARCHAR2(
COMPONENT_REVISION_DATE : DATE
COMPONENT_STATE_CODE : VARCHAR2(30)
COMPONENT_STATE_DATE : DATE
COMPONENT_LAST_STATE_CODE : VARCHAR2(
COMPONENT_GRC_BPEL_ID : NUMBER(15, 0)
CURRENT_IND : VARCHAR2(1)
CREATED_BY_USER : VARCHAR2(255)
LAST_UPDATED_USER : VARCHAR2(255)
BATCH_ID : NUMBER(15, 0)
CREATED_BY : NUMBER(15, 0)
CREATION_DATE : DATE
LAST_UPDATE_DATE : DATE
LAST_UPDATED_BY : NUMBER(15, 0)
LAST_UPDATE_LOGIN : NUMBER(15, 0)
«UK» GRI_D_COMPONENTS_B_U1 : COMPONENT
«UK» GRI_D_COMPONENTS_B_U2 : COMPONENT
GRI_D_COMPONENTS_TL
COMPONENT_SID : NUMBER(15, 0)
SRC_SYS_ID : VARCHAR2(5)
LANGUAGE : VARCHAR2(30)
SOURCE_LANG : VARCHAR2(4)
COMPONENT_NAME : VARCHAR2(150)
COMPONENT_DESCRIPTION : VARCHAR2(255)
COMPONENT_DETAILED_DESCRIPTION : CLOB
OBJECT_NAME : VARCHAR2(150)
OBJECT_DESCRIPTION : VARCHAR2(255)
OBJECT_CLASS_NAME : VARCHAR2(150)
OBJECT_CLASS_DESCRIPTION : VARCHAR2(255)
COMPONENT_STATE_DESCR : VARCHAR2(255)
COMPONENT_STATE_MEANING : VARCHAR2(80)
COMPONENT_LAST_STATE_DESCR : VARCHAR2(25
COMPONENT_LAST_STATE_MEANING : VARCHAR2
CREATED_BY_USER : VARCHAR2(255)
LAST_UPDATED_USER : VARCHAR2(255)
BATCH_ID : NUMBER(15, 0)
CREATED_BY : NUMBER(15, 0)
CREATION_DATE : DATE
LAST_UPDATE_DATE : DATE
LAST_UPDATED_BY : NUMBER(15, 0)
LAST_UPDATE_LOGIN : NUMBER(15, 0)
«UK» GRI_D_COMPONENTS_TL_U2 : COMPONENT_
«FK» GRI_D_COMPONENTS_TL_GRI_D_FK1 : COMP
dtl(GRI_D_COMPONENTS_TL)
db(GRI_D_COMPONENTS_B)
GRI_D_COMPONENTS_VL
db.COMPONENT_SID
db.COMPONENT_ID
db.EFFECTIVE_START_DATE
db.EFFECTIVE_END_DATE
db.EFFECTIVE_SEQUENCE
db.SRC_SYS_ID
dtl.LANGUAGE
dtl.SOURCE_LANG
db.OBJECT_TYPE_CODE
db.COMPONENT_CLASS_CODE
db.COMPONENT_AUDIT_TESTING_F
db.COMPONENT_ASSESSMENT_FLA
dub(GRI_D_COMPONENTS_UDA_B)
dutl(GRI_D_COMPONENTS_UDA_TL)
GRI_D_COMPONENTS_UDA_B
COMPONENT_SID : NUMBER(15, 0)
SRC_SYS_ID : VARCHAR2(5)
STRING_NON_TRANS_1 : VARCHAR2(150)
STRING_NON_TRANS_2 : VARCHAR2(150)
STRING_NON_TRANS_3 : VARCHAR2(150)
STRING_NON_TRANS_4 : VARCHAR2(150)
STRING_NON_TRANS_5 : VARCHAR2(150)
STRING_NON_TRANS_6 : VARCHAR2(150)
STRING_NON_TRANS_7 : VARCHAR2(150)
STRING_NON_TRANS_8 : VARCHAR2(150)
STRING_NON_TRANS_9 : VARCHAR2(150)
STRING_NON_TRANS_10 : VARCHAR2(150)
STRING_NON_TRANS_11 : VARCHAR2(150)
STRING_NON_TRANS_12 : VARCHAR2(150)
STRING_NON_TRANS_13 : VARCHAR2(150)
STRING_NON_TRANS_14 : VARCHAR2(150)
STRING_NON_TRANS_15 : VARCHAR2(150)
STRING_NON_TRANS_16 : VARCHAR2(150)
STRING_NON_TRANS_17 : VARCHAR2(150)
STRING_NON_TRANS_18 : VARCHAR2(150)
STRING_NON_TRANS_19 : VARCHAR2(150)
STRING_NON_TRANS_20 : VARCHAR2(150)
STRING_NON_TRANS_21 : VARCHAR2(150)
«UK» GRI_D_COMPONENTS_UDA_B_U1 : COMPO
«FK» GRI_D_COMPONENTS_UDA_B_GR_FK1 : CO
GRI_D_COMPONENTS_UDA_TL
COMPONENT_SID : NUMBER(15, 0)
SRC_SYS_ID : VARCHAR2(5)
LANGUAGE : VARCHAR2(4)
SOURCE_LANG : VARCHAR2(4)
STRING_TRANS_1 : VARCHAR2(1000)
STRING_TRANS_2 : VARCHAR2(1000)
STRING_TRANS_3 : VARCHAR2(1000)
STRING_TRANS_4 : VARCHAR2(1000)
STRING_TRANS_5 : VARCHAR2(1000)
STRING_TRANS_6 : VARCHAR2(1000)
STRING_TRANS_7 : VARCHAR2(1000)
STRING_TRANS_8 : VARCHAR2(1000)
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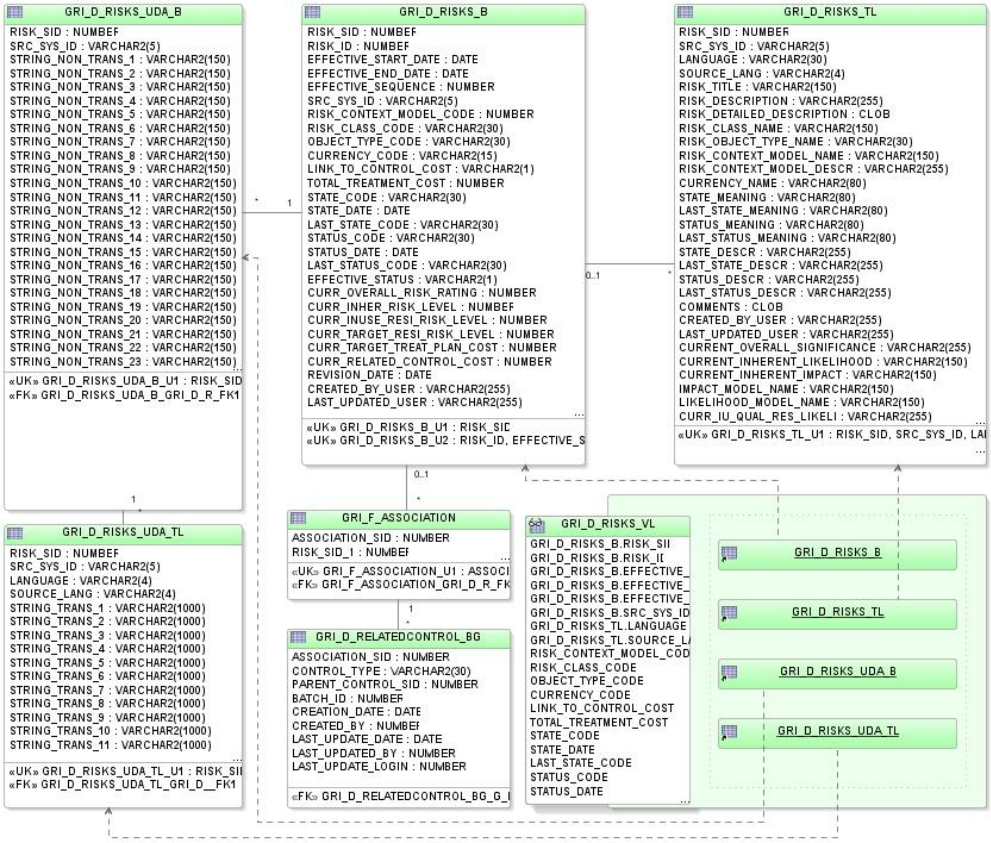
STRING_TRANS_11 : VARCHAR2(1000)
STRING_TRANS_12 : VARCHAR2(1000)
STRING_TRANS_13 : VARCHAR2(1000)
STRING_TRANS_14 : VARCHAR2(1000)
STRING_TRANS_15 : VARCHAR2(1000)
STRING_TRANS_16 : VARCHAR2(1000)
STRING_TRANS_17 : VARCHAR2(1000)
STRING_TRANS_18 : VARCHAR2(1000)
«UK» GRI_D_COMPONENTS_UDA_TL_U1 : COMPON
«FK» GRI_D_COMPONENTS_UDA_TL_G_FK1 : COMP

- **Risks**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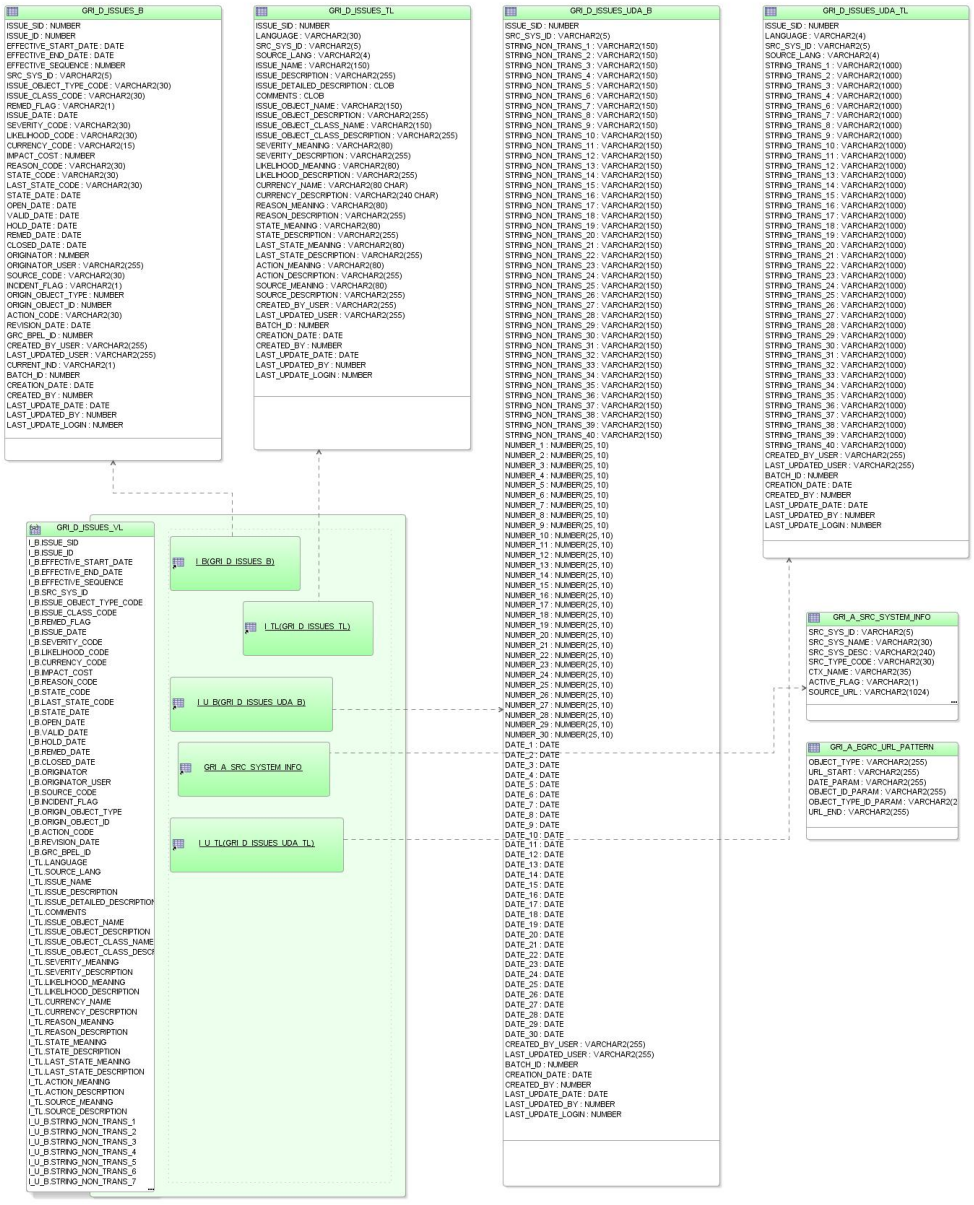
STRING_NON_TRANS_20 : VARCHAR2(150)
STRING_NON_TRANS_21 : VARCHAR2(150)
STRING_NON_TRANS_22 : VARCHAR2(150)
STRING_NON_TRANS_23 : VARCHAR2(150)
«UK» GRI_D_RISKS_UDA_B_U1 : RISK_SID
«FK» GRI_D_RISKS_UDA_B_GRI_D_R_FK1
GRI_D_RISKS_B
RISK_SID : NUMBEF
RISK_ID : NUMBEF
EFFECTIVE_START_DATE : DATE
EFFECTIVE_END_DATE : DATE
EFFECTIVE_SEQUENCE : NUMBER
SRC_SYS_ID : VARCHAR2(5)
RISK_CONTEXT_MODEL_CODE : NUMBER
RISK_CLASS_CODE : VARCHAR2(30)
OBJECT_TYPE_CODE : VARCHAR2(30)
CURRENCY_CODE : VARCHAR2(15)
LINK_TO_CONTROL_COST : VARCHAR2(1)
TOTAL_TREATMENT_COST : NUMBER
STATE_CODE : VARCHAR2(30)
STATE_DATE : DATE
LAST_STATE_CODE : VARCHAR2(30)
STATUS_CODE : VARCHAR2(30)
STATUS_DATE : DATE
LAST_STATUS_CODE : VARCHAR2(30)
EFFECTIVE_STATUS : VARCHAR2(1)
CURR_OVERALL_RISK_RATING : NUMBER
CURR_INHER_RISK_LEVEL : NUMBEF
CURR_INUSE_RESI_RISK_LEVEL : NUMBER
CURR_TARGET_RESI_RISK_LEVEL : NUMBER
CURR_TARGET_TREAT_PLAN_COST : NUMBER
CURR_RELATED_CONTROL_COST : NUMBER
REVISION_DATE : DATE
CREATED_BY_USER : VARCHAR2(255)
LAST_UPDATED_USER : VARCHAR2(255)
«UK» GRI_D_RISKS_B_U1 : RISK_SIC
«UK» GRI_D_RISKS_B_U2 : RISK_ID, EFFECTIVE_S
GRI_D_RISKS_TL
RISK_SID : NUMBER
SRC_SYS_ID : VARCHAR2(5)
LANGUAGE : VARCHAR2(30)
SOURCE_LANG : VARCHAR2(4)
RISK_TITLE : VARCHAR2(150)
RISK_DESCRIPTION : VARCHAR2(255)
RISK_DETAILED_DESCRIPTION : CLOB
RISK_CLASS_NAME : VARCHAR2(150)
RISK_OBJECT_TYPE_NAME : VARCHAR2(30)
RISK_CONTEXT_MODEL_NAME : VARCHAR2(150)
RISK_CONTEXT_MODEL_DESCR : VARCHAR2(255)
CURRENCY_NAME : VARCHAR2(80)
STATE_MEANING : VARCHAR2(80)
LAST_STATE_MEANING : VARCHAR2(80)
STATUS_MEANING : VARCHAR2(80)
LAST_STATUS_MEANING : VARCHAR2(80)
STATE_DESCR : VARCHAR2(255)
LAST_STATE_DESCR : VARCHAR2(255)
STATUS_DESCR : VARCHAR2(255)
LAST_STATUS_DESCR : VARCHAR2(255)
COMMENTS : CLOB
CREATED_BY_USER : VARCHAR2(255)
LAST_UPDATED_USER : VARCHAR2(255)
CURRENT_OVERALL_SIGNIFICANCE : VARCHAR2(255)
CURRENT_INHERENT_LIKELIHOOD : VARCHAR2(150)
CURRENT_INHERENT_IMPACT : VARCHAR2(150)
IMPACT_MODEL_NAME : VARCHAR2(150)
LIKELIHOOD_MODEL_NAME : VARCHAR2(150)
CURR_IU_QUAL_RES_LIKELI : VARCHAR2(255)
«UK» GRI_D_RISKS_TL_U1 : RISK_SID, SRC_SYS_ID, LA
GRI_D_RISKS_UDA_TL
RISK_SID : NUMBEF
SRC_SYS_ID : VARCHAR2(5)
LANGUAGE : VARCHAR2(4)
SOURCE_LANG : VARCHAR2(4)
STRING_TRANS_1 : VARCHAR2(1000)
STRING_TRANS_2 : VARCHAR2(1000)
STRING_TRANS_3 : VARCHAR2(1000)
STRING_TRANS_4 : VARCHAR2(1000)
STRING_TRANS_5 : VARCHAR2(1000)
STRING_TRANS_6 : VARCHAR2(1000)
STRING_TRANS_7 : VARCHAR2(1000)
STRING_TRANS_8 : VARCHAR2(1000)
STRING_TRANS_9 : VARCHAR2(1000)
STRING_TRANS_10 : VARCHAR2(1000)
STRING_TRANS_11 : VARCHAR2(1000)
«UK» GRI_D_RISKS_UDA_TL_U1 : RISK_SII
«FK» GRI_D_RISKS_UDA_TL_GRI_D__FK1
GRI_F_ASSOCIATION
ASSOCIATION_SID : NUMBER
RISK_SID_1 : NUMBEF
«UK» GRI_F_ASSOCIATION_U1 : ASSOCI
«FK» GRI_F_ASSOCIATION_GRI_D_R_FK
GRI_D_RELATEDCONTROL_BG
ASSOCIATION_SID : NUMBER
CONTROL_TYPE : VARCHAR2(30)
PARENT_CONTROL_SID : NUMBER
BATCH_ID : NUMBEF
CREATION_DATE : DATE
CREATED_BY : NUMBEF
LAST_UPDATE_DATE : DATE
LAST_UPDATED_BY : NUMBER
LAST_UPDATE_LOGIN : NUMBER
«FK» GRI_D_RELATEDCONTROL_BG_G_I
GRI_D_RISKS_VL
GRI_D_RISKS_B.RISK_SII
GRI_D_RISKS_B.RISK_II
GRI_D_RISKS_B.EFFECTIVE_
GRI_D_RISKS_B.EFFECTIVE_
GRI_D_RISKS_B.EFFECTIVE_
GRI_D_RISKS_B.SRC_SYS_ID
GRI_D_RISKS_TL.LANGUAGE
GRI_D_RISKS_TL.SOURCE_LA
RISK_CONTEXT_MODEL_COD
RISK_CLASS_CODE
OBJECT_TYPE_CODE
CURRENCY_CODE
LINK_TO_CONTROL_COST
TOTAL_TREATMENT_COST
STATE_CODE
STATE_DATE
LAST_STATE_CODE
STATUS_CODE
STATUS_DATE
GRI_D_RISKS_B
GRI_D_RISKS_TL
GRI_D_RISKS_UDA_B
GRI_D_RISKS_UDA_TL

- **Issues**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EFFECTIVE_END_DATE : DATE
EFFECTIVE_SEQUENCE : NUMBER
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REASON_CODE : VARCHAR2(30)
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OPEN_DATE : DATE
VALID_DATE : DATE
HOLD_DATE : DATE
REMED_DATE : DATE
CLOSED_DATE : DATE
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ORIGINATOR_USER : VARCHAR2(255)
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INCIDENT_FLAG : VARCHAR2(1)
ORIGIN_OBJECT_TYPE : NUMBER
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ACTION_CODE : VARCHAR2(30)
REVISION_DATE : DATE
GRC_BPEL_ID : NUMBER
CREATED_BY_USER : VARCHAR2(255)
LAST_UPDATED_USER : VARCHAR2(255)
CURRENT_IND : VARCHAR2(1)
BATCH_ID : NUMBER
CREATION_DATE : DATE
CREATED_BY : NUMBER
LAST_UPDATE_DATE : DATE
LAST_UPDATED_BY : NUMBER
LAST_UPDATE_LOGIN : NUMBER
GRI_D_ISSUES_TL
ISSUE_SID : NUMBER
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ISSUE_NAME : VARCHAR2(150)
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COMMENTS : CLOB
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CURRENCY_DESCRIPTION : VARCHAR2(240 CHAR)
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STATE_DESCRIPTION : VARCHAR2(255)
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LAST_STATE_DESCRIPTION : VARCHAR2(255)
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ACTION_DESCRIPTION : VARCHAR2(255)
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CREATION_DATE : DATE
CREATED_BY : NUMBER
LAST_UPDATE_DATE : DATE
LAST_UPDATED_BY : NUMBER
LAST_UPDATE_LOGIN : NUMBER
GRI_D_ISSUES_UDA_B
ISSUE_SID : NUMBER
SRC_SYS_ID : VARCHAR2(5)
STRING_NON_TRANS_1 : VARCHAR2(150)
STRING_NON_TRANS_2 : VARCHAR2(150)
STRING_NON_TRANS_3 : VARCHAR2(150)
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STRING_NON_TRANS_5 : VARCHAR2(150)
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NUMBER_2 : NUMBER(25, 10)
NUMBER_3 : NUMBER(25, 10)
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NUMBER_5 : NUMBER(25, 10)
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NUMBER_30 : NUMBER(25, 10)
DATE_1 : DATE
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DATE_23 : DATE
DATE_24 : DATE
DATE_25 : DATE
DATE_26 : DATE
DATE_27 : DATE
DATE_28 : DATE
DATE_29 : DATE
DATE_30 : DATE
CREATED_BY_USER : VARCHAR2(255)
LAST_UPDATED_USER : VARCHAR2(255)
BATCH_ID : NUMBER
CREATION_DATE : DATE
CREATED_BY : NUMBER
LAST_UPDATE_DATE : DATE
LAST_UPDATED_BY : NUMBER
LAST_UPDATE_LOGIN : NUMBER
GRI_D_ISSUES_UDA_TL
ISSUE_SID : NUMBER
LANGUAGE : VARCHAR2(4)
SRC_SYS_ID : VARCHAR2(5)
SOURCE_LANG : VARCHAR2(4)
STRING_TRANS_1 : VARCHAR2(1000)
STRING_TRANS_2 : VARCHAR2(1000)
STRING_TRANS_3 : VARCHAR2(1000)
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STRING_TRANS_5 : VARCHAR2(1000)
STRING_TRANS_6 : VARCHAR2(1000)
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STRING_TRANS_40 : VARCHAR2(1000)
CREATED_BY_USER : VARCHAR2(255)
LAST_UPDATED_USER : VARCHAR2(255)
BATCH_ID : NUMBER
CREATION_DATE : DATE
CREATED_BY : NUMBER
LAST_UPDATE_DATE : DATE
LAST_UPDATED_BY : NUMBER
LAST_UPDATE_LOGIN : NUMBER
GRI_D_ISSUES_VL
I_B.ISSUE_SID
I_B.ISSUE_ID
I_B.EFFECTIVE_START_DATE
I_B.EFFECTIVE_END_DATE
I_B.EFFECTIVE_SEQUENCE
I_B.SRC_SYS_ID
I_B.ISSUE_OBJECT_TYPE_CODE
I_B.ISSUE_CLASS_CODE
I_B.REMED_FLAG
I_B.ISSUE_DATE
I_B.SEVERITY_CODE
I_B.LIKELIHOOD_CODE
I_B.CURRENCY_CODE
I_B.IMPACT_COST
I_B.REASON_CODE
I_B.STATE_CODE
I_B.LAST_STATE_CODE
I_B.STATE_DATE
I_B.OPEN_DATE
I_B.VALID_DATE
I_B.HOLD_DATE
I_B.REMED_DATE
I_B.CLOSED_DATE
I_B.ORIGINATOR
I_B.ORIGINATOR_USER
I_B.SOURCE_CODE
I_B.INCIDENT_FLAG
I_B.ORIGIN_OBJECT_TYPE
I_B.ORIGIN_OBJECT_ID
I_B.ACTION_CODE
I_B.REVISION_DATE
I_B.GRC_BPEL_ID
I_TL.LANGUAGE
I_TL.SOURCE_LANG
I_TL.ISSUE_NAME
I_TL.ISSUE_DESCRIPTION
I_TL.ISSUE_DETAILED_DESCRIPTION
I_TL.COMMENTS
I_TL.ISSUE_OBJECT_NAME
I_TL.ISSUE_OBJECT_DESCRIPTION
I_TL.ISSUE_OBJECT_CLASS_NAME
I_TL.ISSUE_OBJECT_CLASS_DESC
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I_TL.LIKELIHOOD_MEANING
I_TL.LIKELIHOOD_DESCRIPTION
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I_TL.REASON_DESCRIPTION
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I_TL.STATE_DESCRIPTION
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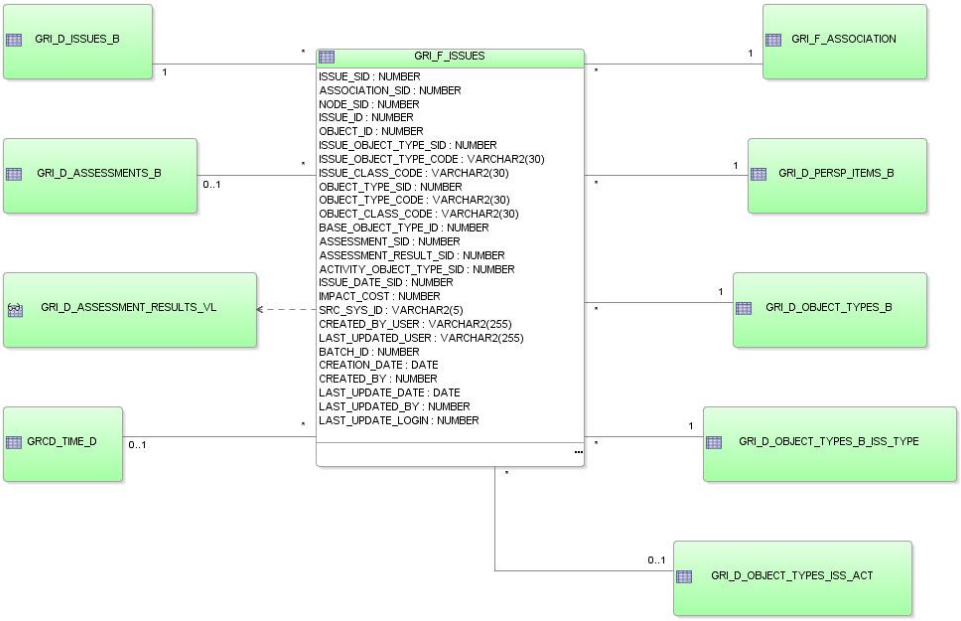
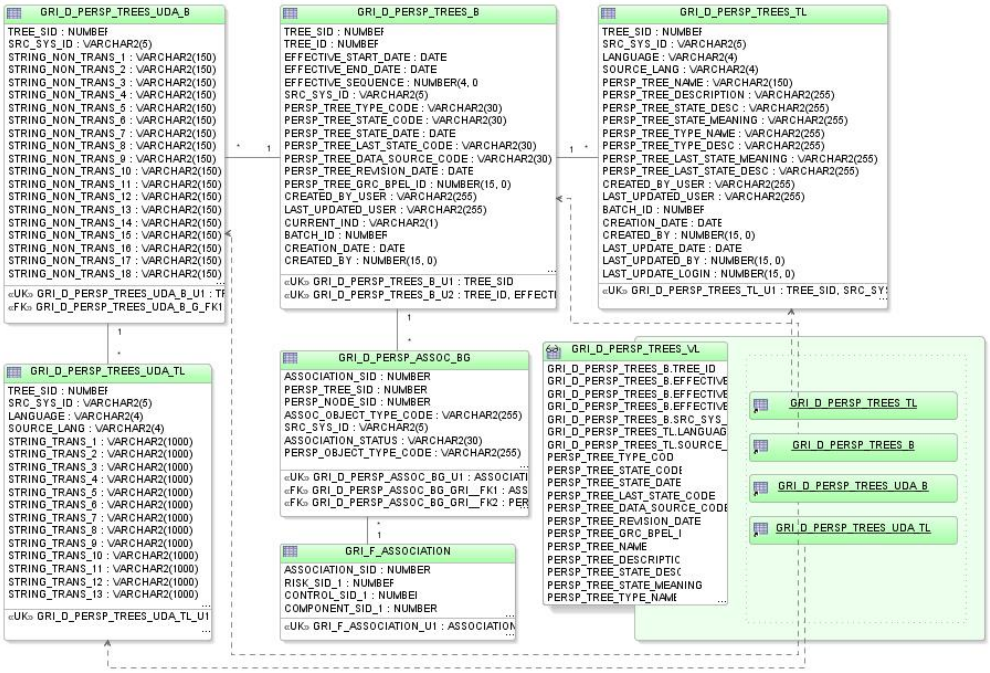
I_TL.LAST_STATE_DESCRIPTION
I_TL.ACTION_MEANING
I_TL.ACTION_DESCRIPTION
I_TL.SOURCE_MEANING
I_TL.SOURCE_DESCRIPTION
I_U_B.STRING_NON_TRANS_1
I_U_B.STRING_NON_TRANS_2
I_U_B.STRING_NON_TRANS_3
I_U_B.STRING_NON_TRANS_4
I_U_B.STRING_NON_TRANS_5
I_U_B.STRING_NON_TRANS_6
I_U_B.STRING_NON_TRANS_7
I_B(GRI_D_ISSUES_B)
I_TL(GRI_D_ISSUES_TL)
I_U_B(GRI_D_ISSUES_UDA_B)
GRI_A_SRC_SYSTEM_INFO
I_U_TL(GRI_D_ISSUES_UDA_TL)
GRI_A_SRC_SYSTEM_INFO
SRC_SYS_ID : VARCHAR2(5)
SRC_SYS_NAME : VARCHAR2(30)
SRC_SYS_DESC : VARCHAR2(240)
SRC_TYPE_CODE : VARCHAR2(30)
CTX_NAME : VARCHAR2(35)
ACTIVE_FLAG : VARCHAR2(1)
SOURCE_URL : VARCHAR2(1024)
GRI_A_EGRC_URL_PATTERN
OBJECT_TYPE : VARCHAR2(255)
URL_START : VARCHAR2(255)
DATE_PARAM : VARCHAR2(255)
OBJECT_ID_PARAM : VARCHAR2(255)
OBJECT_TYPE_ID_PARAM : VARCHAR2(2
URL_END : VARCHAR2(255)

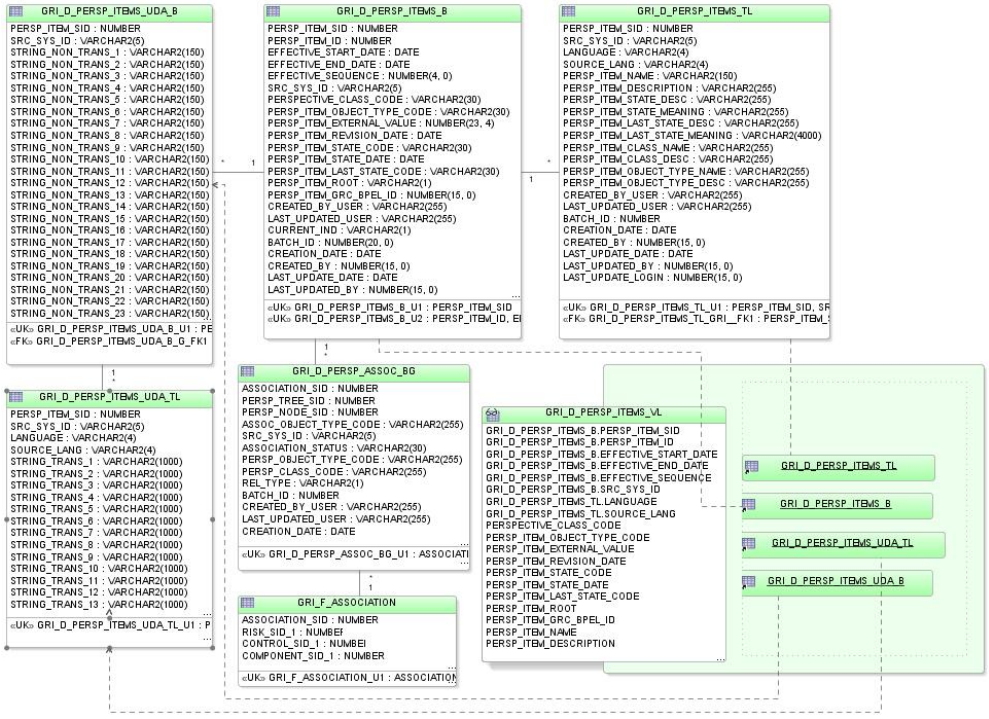
- **Issues Star**



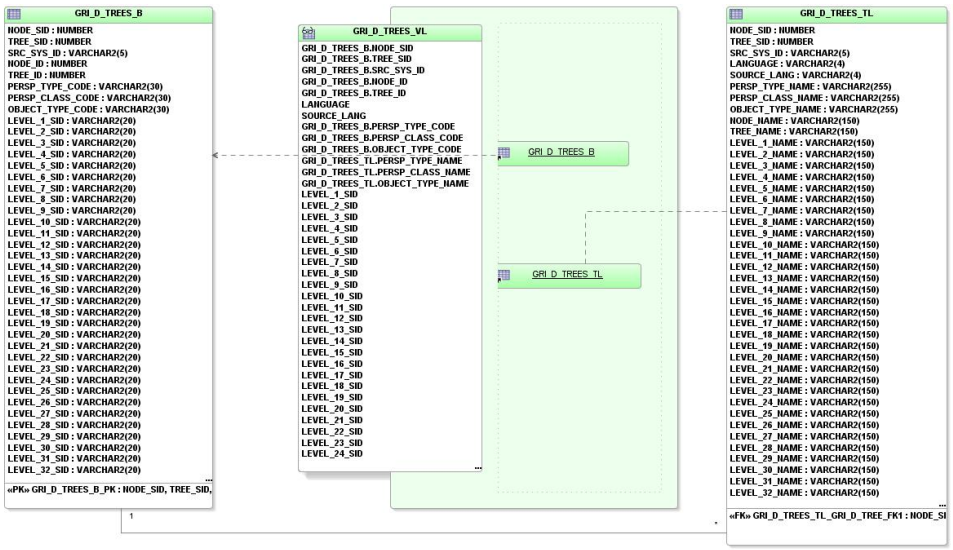
- **Perspective Hierarchy**



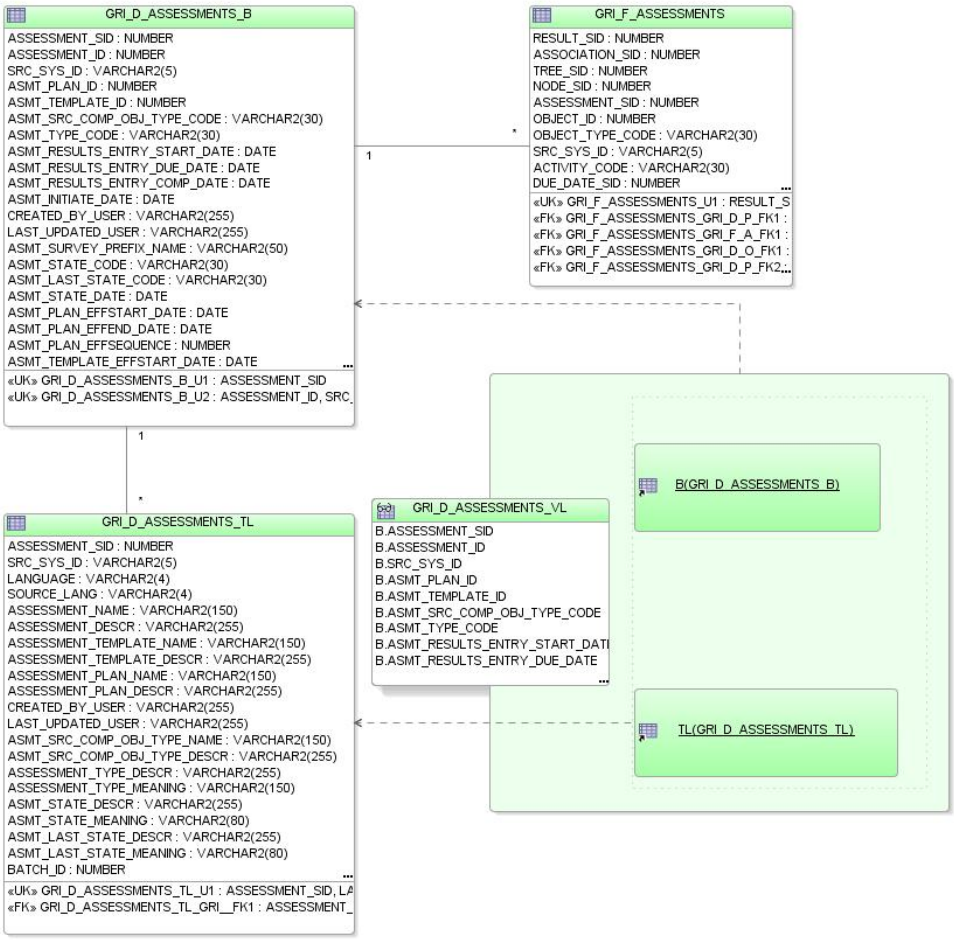
- **Perspective Items**



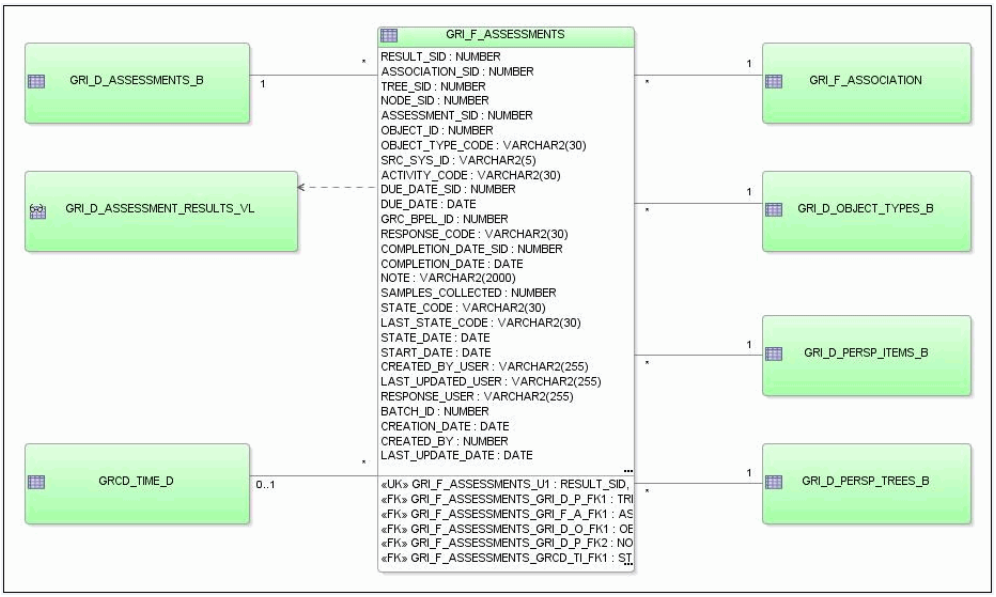
- **Trees**



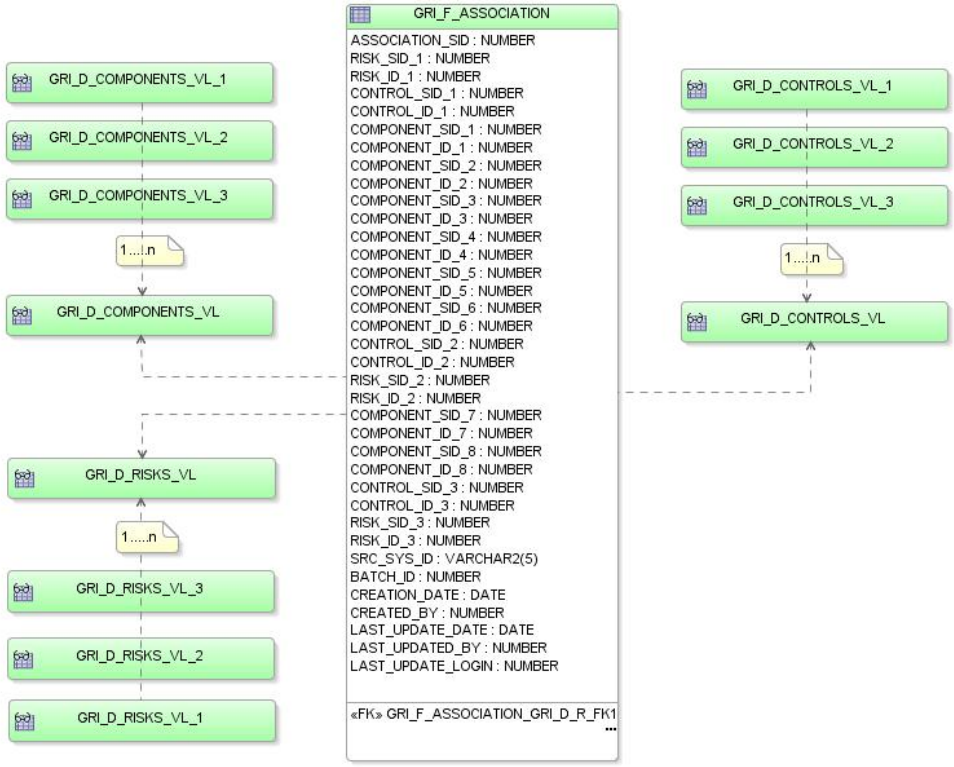
- **Assessment**



- **Assessment Star**

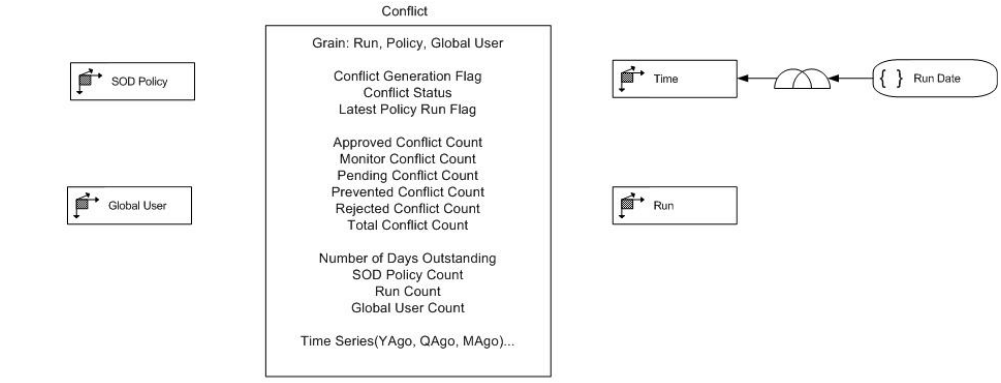


- **Association Star**



GRCI 3.0.1 - AACG 8.5.1 Logical Model

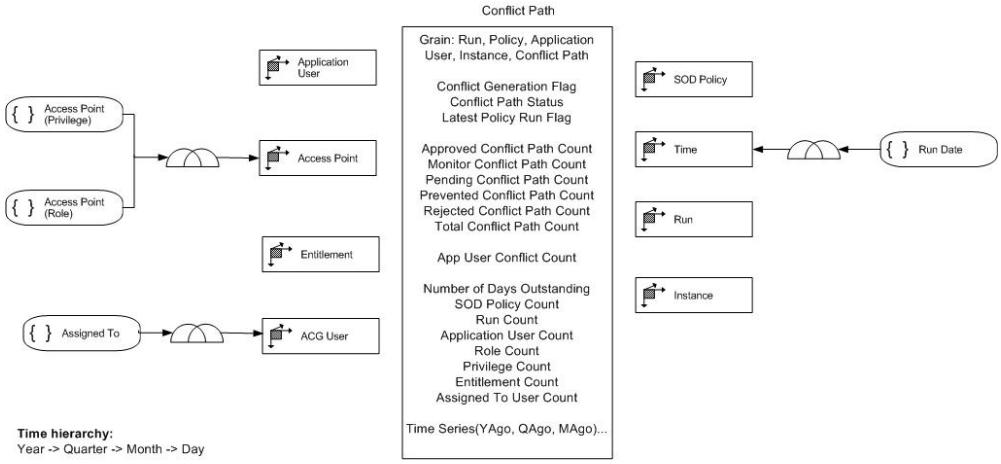
- **Conflicts**



Time hierarchy:
Year -> Quarter -> Month -> Day

Policy hierarchies:
Policy Type -> Policy Name
Policy Priority -> Policy Name
Process -> Policy Name
Risk -> Policy Name

- **Conflict Path**

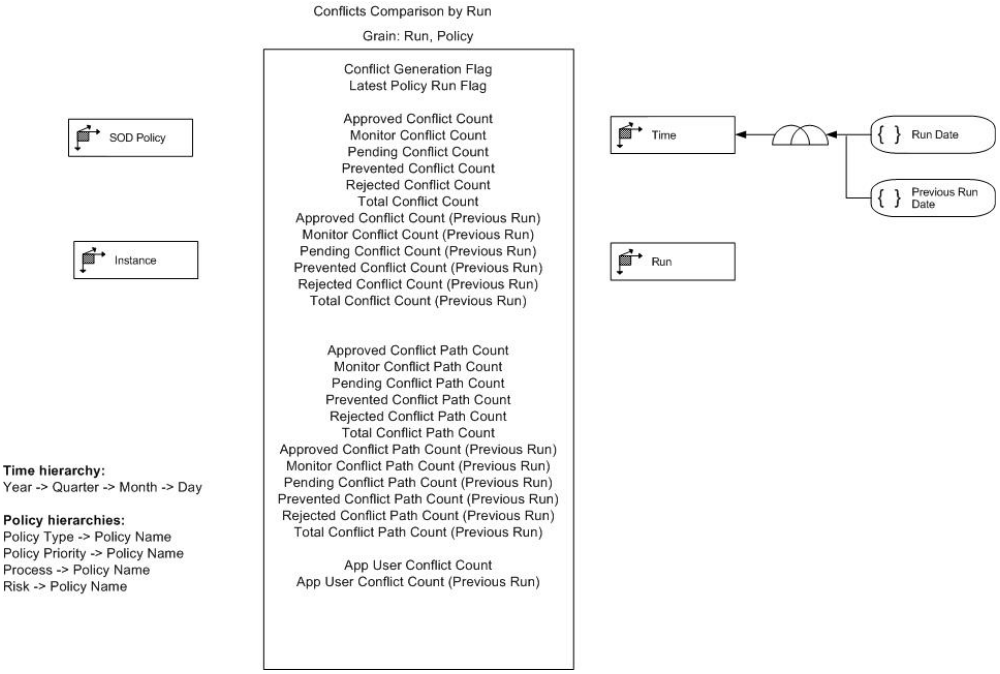


Time hierarchy:
Year -> Quarter -> Month -> Day

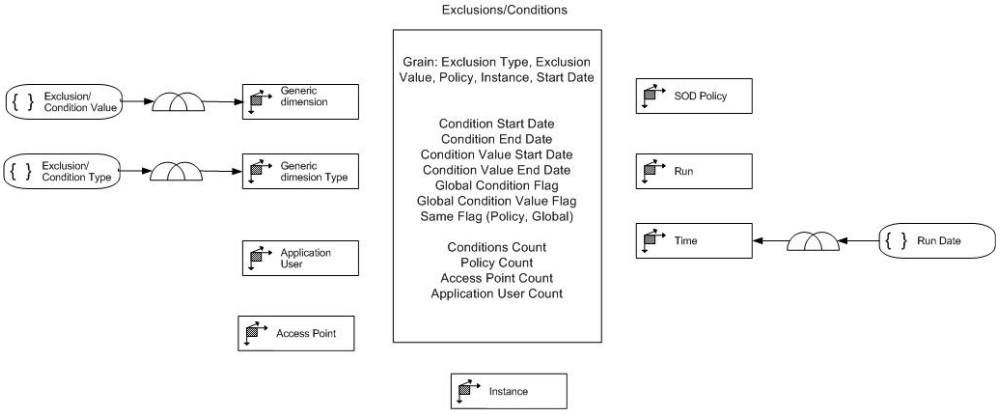
Policy hierarchies:
Policy Type -> Policy Name
Policy Priority -> Policy Name
Process -> Policy Name
Risk -> Policy Name

Access Point hierarchy:
Access Point Type -> Access Point Name

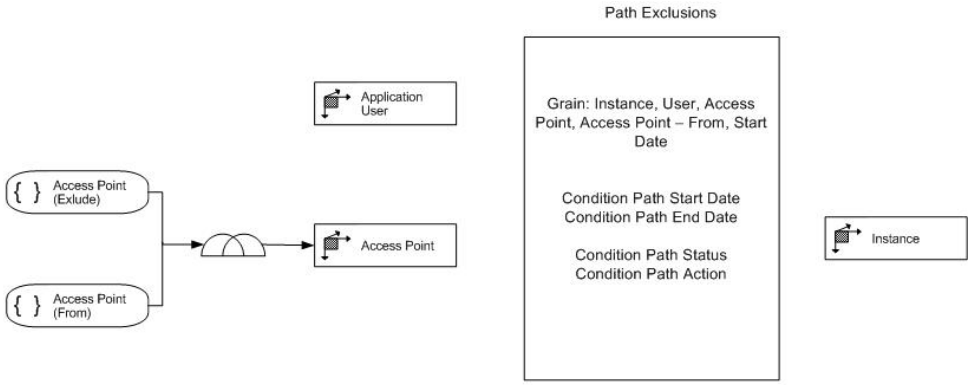
- **Conflict Comparison by Run**



- **Exclusions**



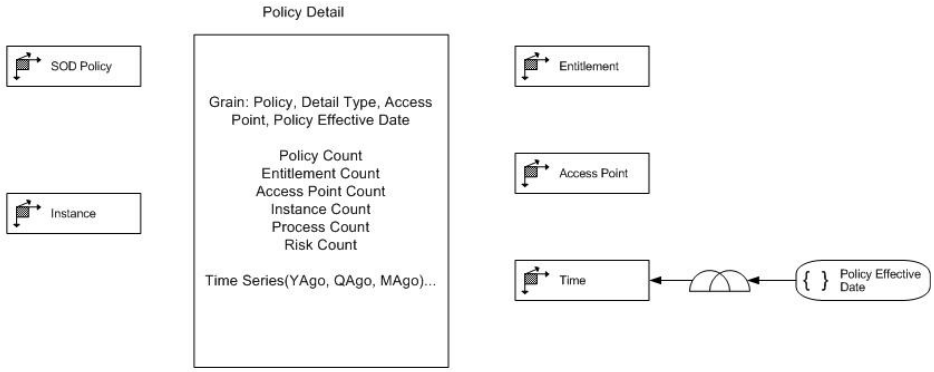
- **Path Exclusions**



Policy hierarchies:
Policy Type -> Policy Name
Policy Priority -> Policy Name
Process -> Policy Name
Risk -> Policy Name

Access Point hierarchy:
Access Point Type -> Access Point Name

- **Policy Detail**

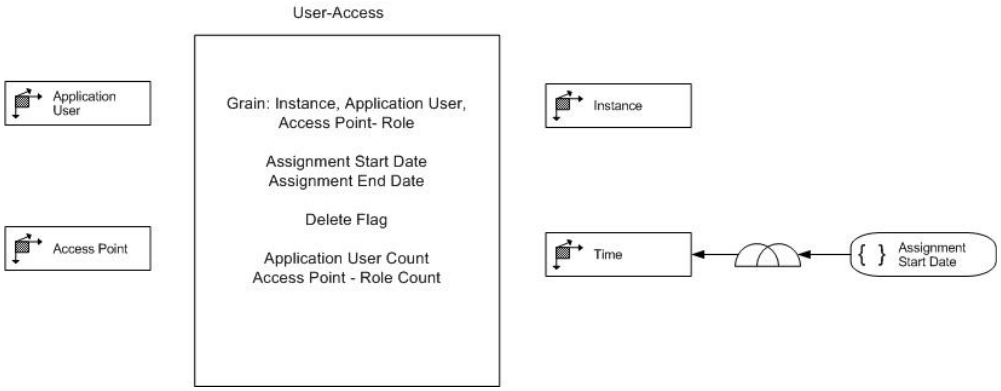


Time hierarchy:
Year -> Quarter -> Month -> Day

Policy hierarchies:
Policy Type -> Policy Name
Policy Priority -> Policy Name
Process -> Policy Name
Risk -> Policy Name

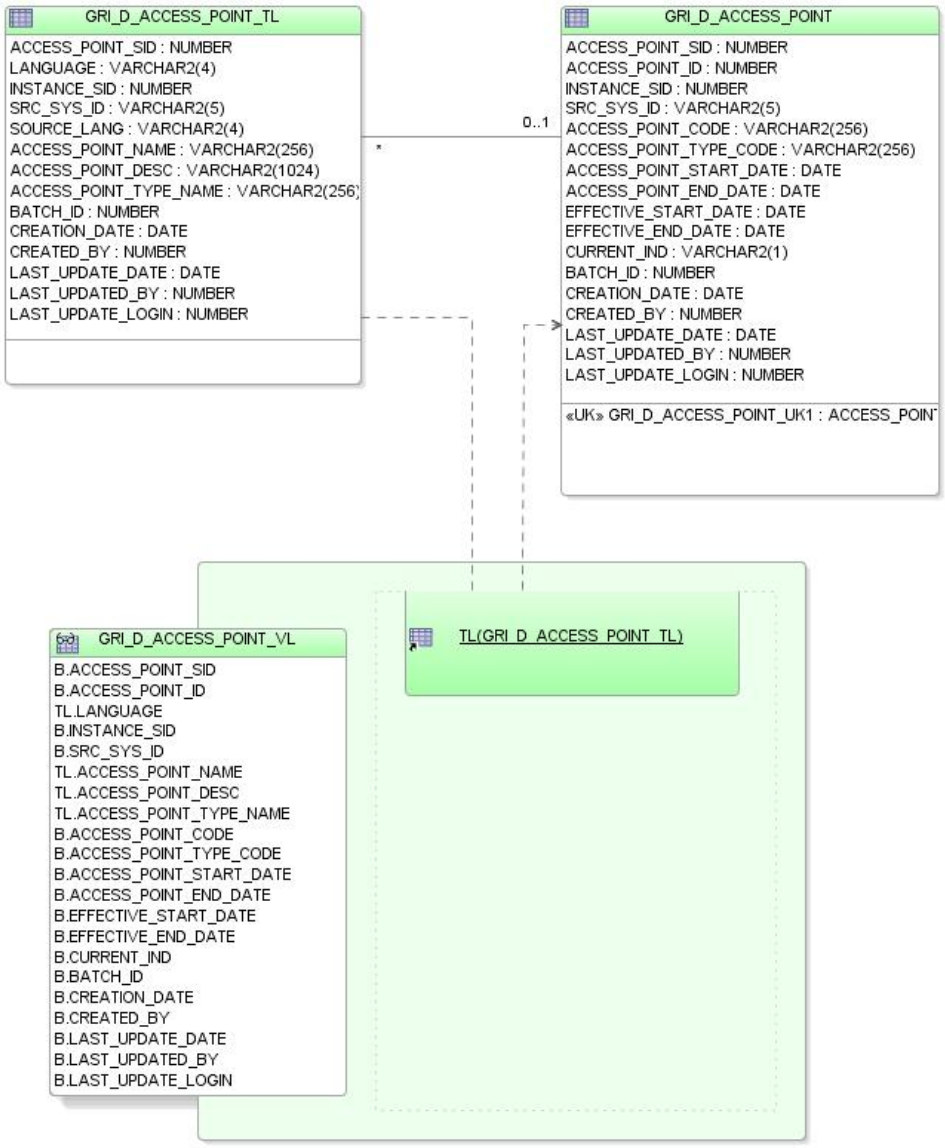
Access Point hierarchy:
Access Point Type -> Access Point Name

- **User Access**

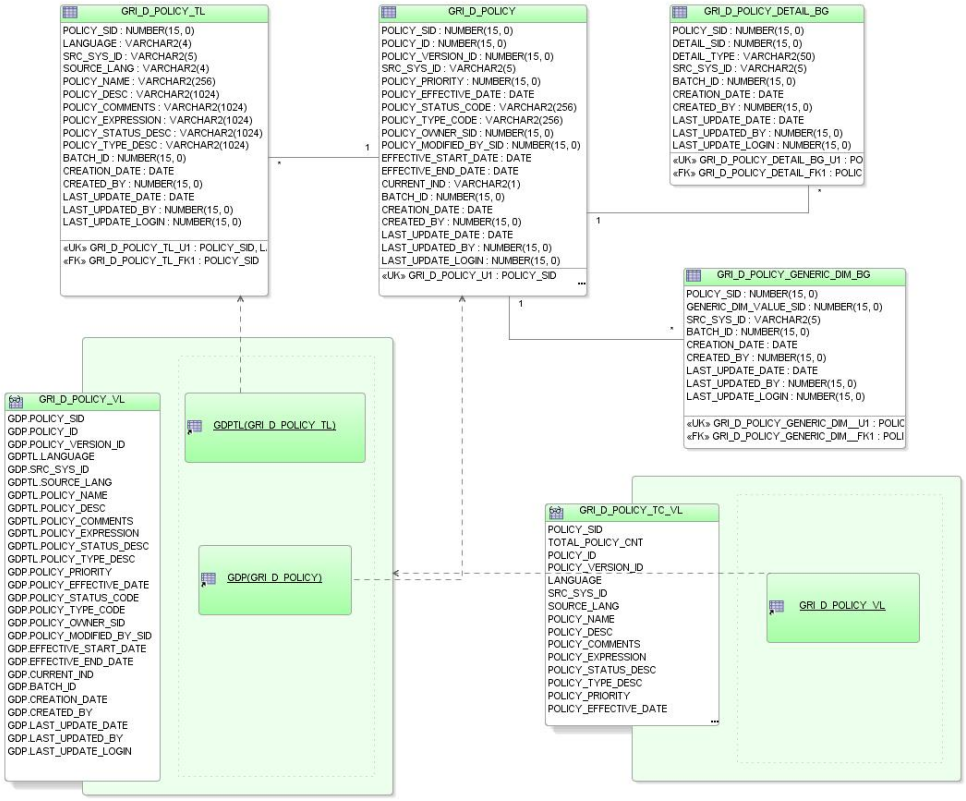


GRCI 3.0.1 - AACG 8.5.1 Physical Model

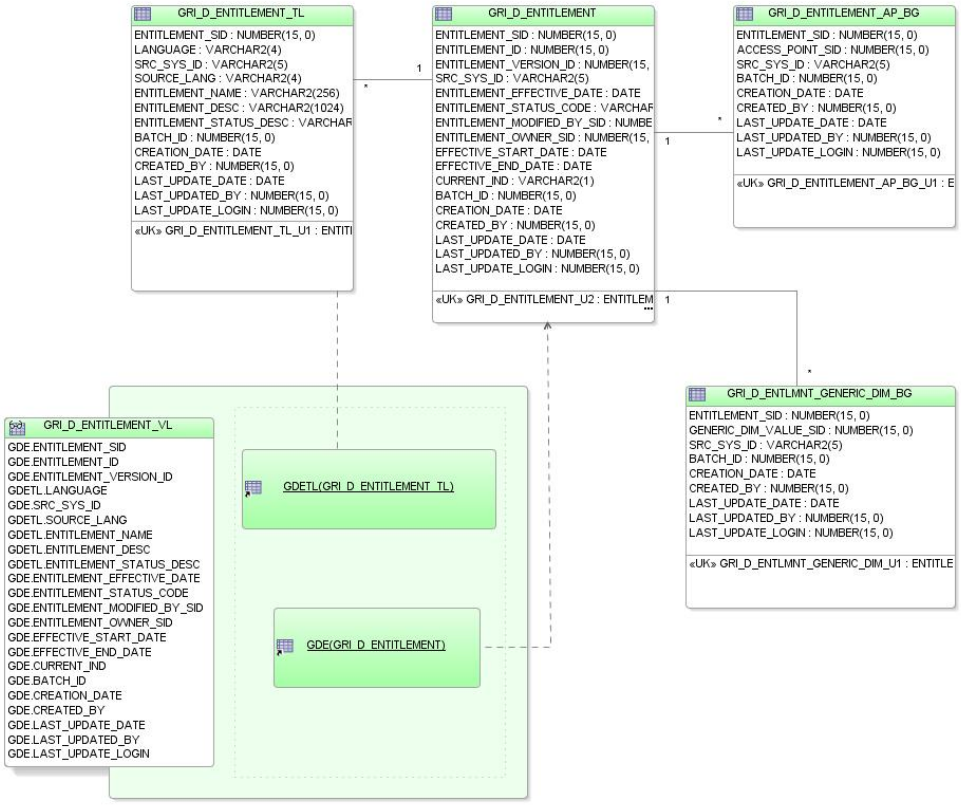
- **Access Point**


GRI_D_ACCESS_POINT_TL
ACCESS_POINT_SID : NUMBER
LANGUAGE : VARCHAR2(4)
INSTANCE_SID : NUMBER
SRC_SYS_ID : VARCHAR2(5)
SOURCE_LANG : VARCHAR2(4)
ACCESS_POINT_NAME : VARCHAR2(256)
ACCESS_POINT_DESC : VARCHAR2(1024)
ACCESS_POINT_TYPE_NAME : VARCHAR2(256)
BATCH_ID : NUMBER
CREATION_DATE : DATE
CREATED_BY : NUMBER
LAST_UPDATE_DATE : DATE
LAST_UPDATED_BY : NUMBER
LAST_UPDATE_LOGIN : NUMBER
0..1
*
GRI_D_ACCESS_POINT
ACCESS_POINT_SID : NUMBER
ACCESS_POINT_ID : NUMBER
INSTANCE_SID : NUMBER
SRC_SYS_ID : VARCHAR2(5)
ACCESS_POINT_CODE : VARCHAR2(256)
ACCESS_POINT_TYPE_CODE : VARCHAR2(256)
ACCESS_POINT_START_DATE : DATE
ACCESS_POINT_END_DATE : DATE
EFFECTIVE_START_DATE : DATE
EFFECTIVE_END_DATE : DATE
CURRENT_IND : VARCHAR2(1)
BATCH_ID : NUMBER
CREATION_DATE : DATE
CREATED_BY : NUMBER
LAST_UPDATE_DATE : DATE
LAST_UPDATED_BY : NUMBER
LAST_UPDATE_LOGIN : NUMBER
«UK» GRI_D_ACCESS_POINT_UK1 : ACCESS_POIN
GRI_D_ACCESS_POINT_VL
B.ACCESS_POINT_SID
B.ACCESS_POINT_ID
TL.LANGUAGE
B.INSTANCE_SID
B.SRC_SYS_ID
TL.ACCESS_POINT_NAME
TL.ACCESS_POINT_DESC
TL.ACCESS_POINT_TYPE_NAME
B.ACCESS_POINT_CODE
B.ACCESS_POINT_TYPE_CODE
B.ACCESS_POINT_START_DATE
B.ACCESS_POINT_END_DATE
B.EFFECTIVE_START_DATE
B.EFFECTIVE_END_DATE
B.CURRENT_IND
B.BATCH_ID
B.CREATION_DATE
B.CREATED_BY
B.LAST_UPDATE_DATE
B.LAST_UPDATED_BY
B.LAST_UPDATE_LOGIN
TL(GRI_D_ACCESS_POINT_TL)

- **Policy**



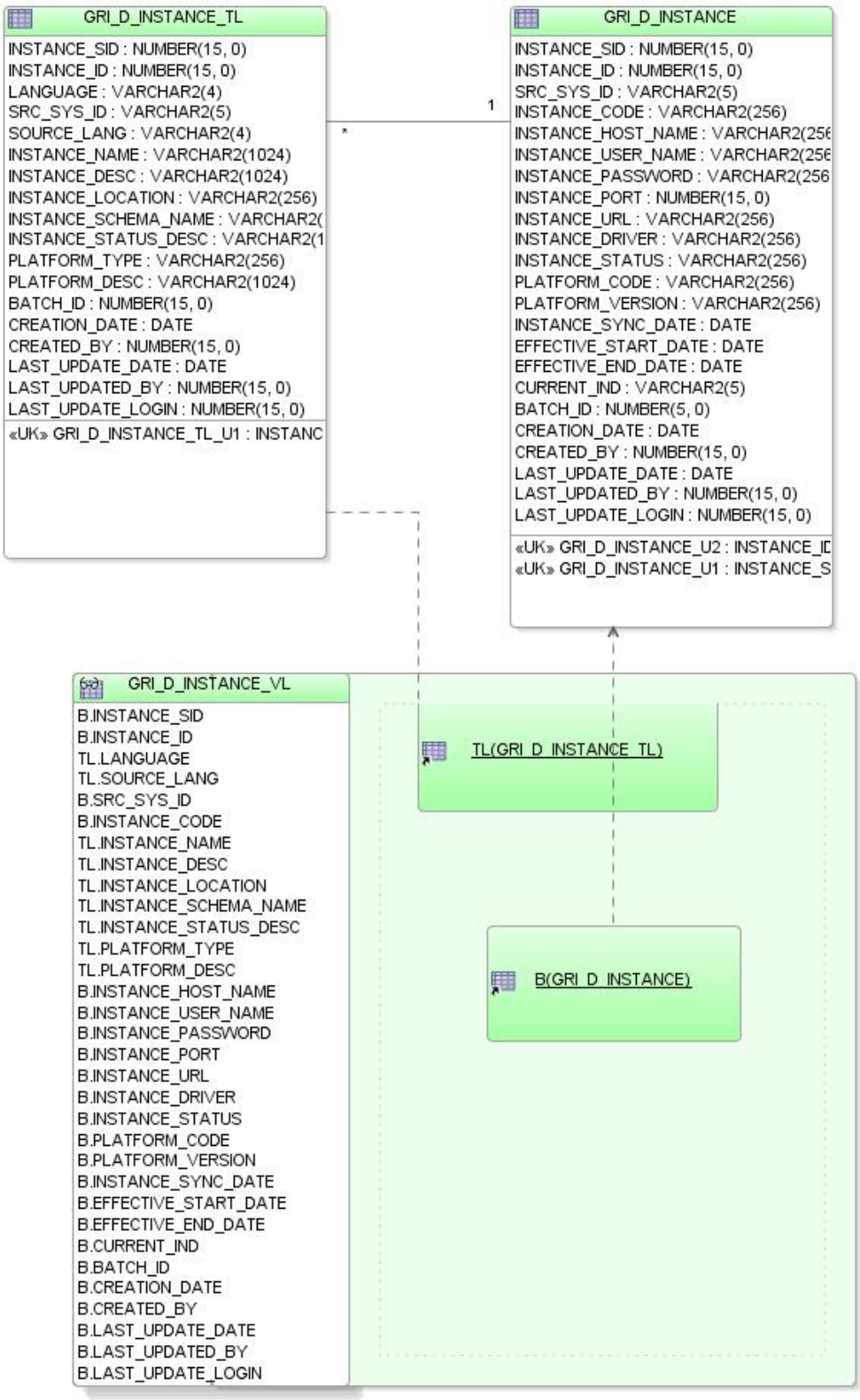
- **Entitlement**



- **Generic Dimension**


GRI_D_GENERIC_DIM_TL
GENERIC_DIM_SID : NUMBER(15, 0)
LANGUAGE : VARCHAR2(4)
SRC_SYS_ID : VARCHAR2(5)
SOURCE_LANG : VARCHAR2(4)
GENERIC_DIM_NAME : VARCHAR2(256)
GENERIC_DIM_DESC : VARCHAR2(1024)
GENERIC_DIM_STATUS_DESC : VARCHAR
BATCH_ID : NUMBER(15, 0)
CREATION_DATE : DATE
CREATED_BY : NUMBER(15, 0)
LAST_UPDATE_DATE : DATE
LAST_UPDATED_BY : NUMBER(15, 0)
LAST_UPDATE_LOGIN : NUMBER(15, 0)
«UK» GRI_D_GENERIC_DIM_TL_U1 : GENE
GRI_D_GENERIC_DIM
GENERIC_DIM_SID : NUMBER(15, 0)
GENERIC_DIM_ID : NUMBER(15, 0)
SRC_SYS_ID : VARCHAR2(5)
GENERIC_DIM_TYPE_CODE : VARCHAR2(
GENERIC_DIM_STATUS_CODE : VARCHAR
INSTANCE_SID : NUMBER(15, 0)
EFFECTIVE_START_DATE : DATE
EFFECTIVE_END_DATE : DATE
CURRENT_IND : VARCHAR2(1)
BATCH_ID : NUMBER(15, 0)
CREATION_DATE : DATE
CREATED_BY : NUMBER(15, 0)
LAST_UPDATE_DATE : DATE
LAST_UPDATED_BY : NUMBER(15, 0)
LAST_UPDATE_LOGIN : NUMBER(15, 0)
«UK» GRI_D_GENERIC_DIM_U1 : GENERIC_
«UK» GRI_D_GENERIC_DIM_U2 : GENERIC_
GRI_D_GENERIC_DIM_VAL
GENERIC_DIM_VAL_SID : NUMBER(15, 0)
GENERIC_DIM_SID : NUMBER(15, 0)
GENERIC_DIM_VAL_ID : NUMBER(15, 0)
SRC_SYS_ID : VARCHAR2(5)
GENERIC_DIM_VAL_STATUS_CODE : VAR
EFFECTIVE_START_DATE : DATE
EFFECTIVE_END_DATE : DATE
CURRENT_IND : VARCHAR2(1)
BATCH_ID : NUMBER(15, 0)
CREATION_DATE : DATE
CREATED_BY : NUMBER(15, 0)
LAST_UPDATE_DATE : DATE
LAST_UPDATED_BY : NUMBER(15, 0)
LAST_UPDATE_LOGIN : NUMBER(15, 0)
«UK» GRI_D_GENERIC_DIM_VAL_U2 : GEN
«UK» GRI_D_GENERIC_DIM_VAL_U1 : GEN
GRI_D_GENERIC_DIM_VAL_TL
GENERIC_DIM_VAL_SID : NUMBER(15, 0)
LANGUAGE : VARCHAR2(4)
SRC_SYS_ID : VARCHAR2(5)
SOURCE_LANG : VARCHAR2(4)
GENERIC_DIM_VAL_NAME : VARCHAR2(256
GENERIC_DIM_VAL_STATUS_DESC : VARCH
BATCH_ID : NUMBER(15, 0)
CREATION_DATE : DATE
CREATED_BY : NUMBER(15, 0)
LAST_UPDATE_DATE : DATE
LAST_UPDATED_BY : NUMBER(15, 0)
LAST_UPDATE_LOGIN : NUMBER(15, 0)
«UK» GRI_D_GENERIC_DIM_VAL_TL_U1 : GE
«FK» GRI_D_GENERIC_DIM_VAL_TL__FK1 : C
1
0..1
*
0..1
GRI_D_GENERIC_DIM_VL
B.GENERIC_DIM_SID
B.GENERIC_DIM_ID
TL.LANGUAGE
B.SRC_SYS_ID
TL.SOURCE_LANG
B.GENERIC_DIM_TYPE_CODE
TL.GENERIC_DIM_NAME
TL.GENERIC_DIM_DESC
B.GENERIC_DIM_STATUS_CODE
TL.GENERIC_DIM_STATUS_DESC
B.INSTANCE_SID
B.EFFECTIVE_START_DATE
B.EFFECTIVE_END_DATE
B.CURRENT_IND
B.BATCH_ID
B.CREATION_DATE
B.CREATED_BY
B.LAST_UPDATE_DATE
B.LAST_UPDATED_BY
B.LAST_UPDATE_LOGIN
TL(GRI_D_GENERIC_DIM_TL)
B(GRI_D_GENERIC_DIM)
GRI_D_GENERIC_DIM_VAL_VL
B.GENERIC_DIM_VAL_SID
B.GENERIC_DIM_SID
B.GENERIC_DIM_VAL_ID
TL.LANGUAGE
B.SRC_SYS_ID
TL.SOURCE_LANG
TL.GENERIC_DIM_VAL_NAME
B.GENERIC_DIM_VAL_STATUS_CODE
TL.GENERIC_DIM_VAL_STATUS_DESC
B.EFFECTIVE_START_DATE
B.EFFECTIVE_END_DATE
B.CURRENT_IND
B.BATCH_ID
B.CREATION_DATE
B.CREATED_BY
B.LAST_UPDATE_DATE
B.LAST_UPDATED_BY
B.LAST_UPDATE_LOGIN
B(GRI_D_GENERIC_DIM_VAL)
TL(GRI_D_GENERIC_DIM_VAL_TL)
Type as Business Process
GRI_D_GENERIC_DIM_VAL_BP_VL
Type as Risk
GRI_D_GENERIC_DIM_VAL_RISK_VL

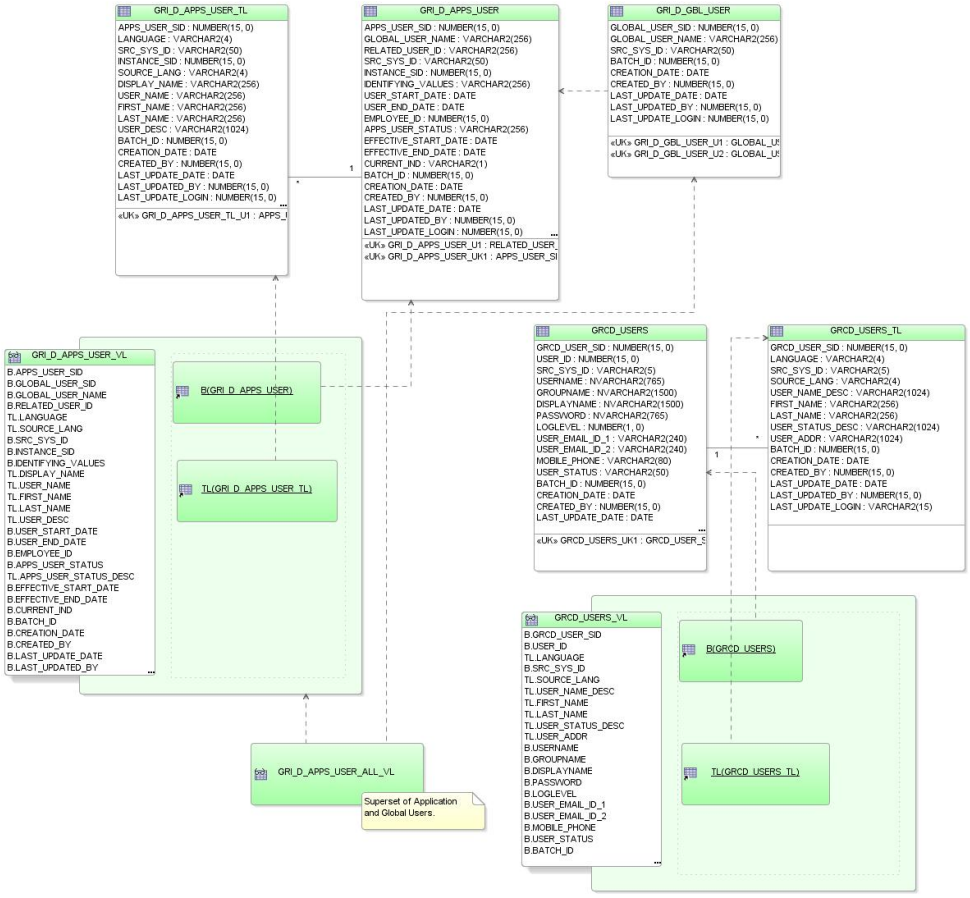
- **Instance**


GRI_D_INSTANCE_TL
INSTANCE_SID : NUMBER(15, 0)
INSTANCE_ID : NUMBER(15, 0)
LANGUAGE : VARCHAR2(4)
SRC_SYS_ID : VARCHAR2(5)
SOURCE_LANG : VARCHAR2(4)
INSTANCE_NAME : VARCHAR2(1024)
INSTANCE_DESC : VARCHAR2(1024)
INSTANCE_LOCATION : VARCHAR2(256)
INSTANCE_SCHEMA_NAME : VARCHAR2(
INSTANCE_STATUS_DESC : VARCHAR2(1
PLATFORM_TYPE : VARCHAR2(256)
PLATFORM_DESC : VARCHAR2(1024)
BATCH_ID : NUMBER(15, 0)
CREATION_DATE : DATE
CREATED_BY : NUMBER(15, 0)
LAST_UPDATE_DATE : DATE
LAST_UPDATED_BY : NUMBER(15, 0)
LAST_UPDATE_LOGIN : NUMBER(15, 0)
«UK» GRI_D_INSTANCE_TL_U1 : INSTANC
1
*
GRI_D_INSTANCE
INSTANCE_SID : NUMBER(15, 0)
INSTANCE_ID : NUMBER(15, 0)
SRC_SYS_ID : VARCHAR2(5)
INSTANCE_CODE : VARCHAR2(256)
INSTANCE_HOST_NAME : VARCHAR2(256
INSTANCE_USER_NAME : VARCHAR2(256
INSTANCE_PASSWORD : VARCHAR2(256
INSTANCE_PORT : NUMBER(15, 0)
INSTANCE_URL : VARCHAR2(256)
INSTANCE_DRIVER : VARCHAR2(256)
INSTANCE_STATUS : VARCHAR2(256)
PLATFORM_CODE : VARCHAR2(256)
PLATFORM_VERSION : VARCHAR2(256)
INSTANCE_SYNC_DATE : DATE
EFFECTIVE_START_DATE : DATE
EFFECTIVE_END_DATE : DATE
CURRENT_IND : VARCHAR2(5)
BATCH_ID : NUMBER(5, 0)
CREATION_DATE : DATE
CREATED_BY : NUMBER(15, 0)
LAST_UPDATE_DATE : DATE
LAST_UPDATED_BY : NUMBER(15, 0)
LAST_UPDATE_LOGIN : NUMBER(15, 0)
«UK» GRI_D_INSTANCE_U2 : INSTANCE_ID
«UK» GRI_D_INSTANCE_U1 : INSTANCE_S
GRI_D_INSTANCE_VL
B.INSTANCE_SID
B.INSTANCE_ID
TL.LANGUAGE
TL.SOURCE_LANG
B.SRC_SYS_ID
B.INSTANCE_CODE
TL.INSTANCE_NAME
TL.INSTANCE_DESC
TL.INSTANCE_LOCATION
TL.INSTANCE_SCHEMA_NAME
TL.INSTANCE_STATUS_DESC
TL.PLATFORM_TYPE
TL.PLATFORM_DESC
B.INSTANCE_HOST_NAME
B.INSTANCE_USER_NAME
B.INSTANCE_PASSWORD
B.INSTANCE_PORT
B.INSTANCE_URL
B.INSTANCE_DRIVER
B.INSTANCE_STATUS
B.PLATFORM_CODE
B.PLATFORM_VERSION
B.INSTANCE_SYNC_DATE
B.EFFECTIVE_START_DATE
B.EFFECTIVE_END_DATE
B.CURRENT_IND
B.BATCH_ID
B.CREATION_DATE
B.CREATED_BY
B.LAST_UPDATE_DATE
B.LAST_UPDATED_BY
B.LAST_UPDATE_LOGIN
TL(GRI_D_INSTANCE_TL)
B(GRI_D_INSTANCE)

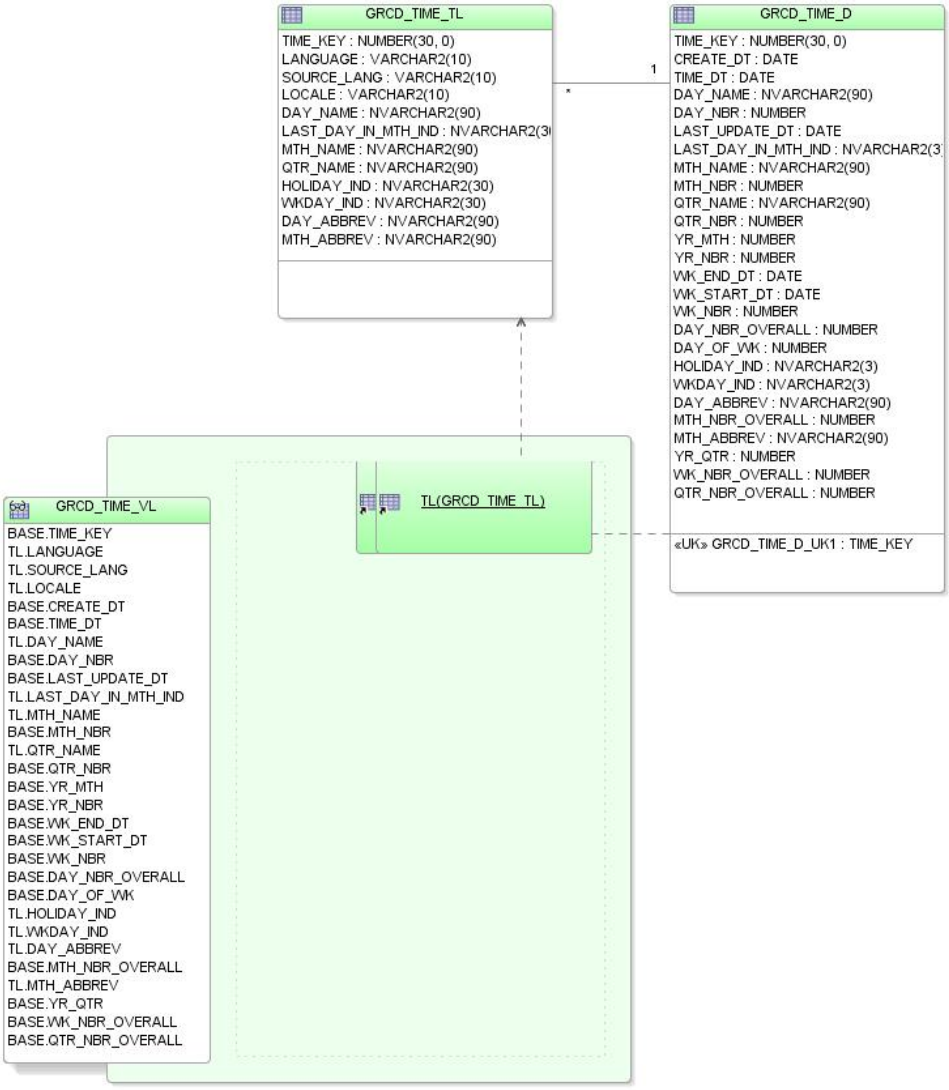
- **Run**


GRI_D_RUN
RUN_SID : NUMBER(15, 0)
SRC_SYS_ID : VARCHAR2(50)
RUN_ID : NUMBER(15, 0)
RUN_DATE_SID : NUMBER(15, 0)
TOTAL_CONFLICTS_CNT : NUMBER(15, 0)
TOTAL_CONFLICT_PATH_CNT : NUMBER(15, 0)
RUN_END_DATE : DATE
EFFECTIVE_START_DATE : DATE
EFFECTIVE_END_DATE : DATE
CURRENT_IND : VARCHAR2(1)
BATCH_ID : NUMBER(15, 0)
CREATION_DATE : DATE
CREATED_BY : NUMBER(15, 0)
LAST_UPDATE_DATE : DATE
LAST_UPDATE_LOGIN : NUMBER(15, 0)
LAST_UPDATED_BY : NUMBER(15, 0)
«UK» GRI_D_RUN_U1 : RUN_SID
«UK» GRI_D_RUN_U2 : RUN_ID, SRC_SYS_ID
GRI_D_RUN_LATEST_FLAG_V
R.RUN_SID
SRC_SYS_ID
RUN_ID
RUN_DATE_SID
TOTAL_CONFLICTS_CNT
TOTAL_CONFLICT_PATH_CNT
RUN_END_DATE
EFFECTIVE_START_DATE
EFFECTIVE_END_DATE
CURRENT_IND
BATCH_ID
CREATION_DATE
CREATED_BY
LAST_UPDATE_DATE
LAST_UPDATE_LOGIN
LAST_UPDATED_BY
LATEST_RUN_FLAG(CASE WHEN R.RUN_SID
R(GRI_D_RUN)

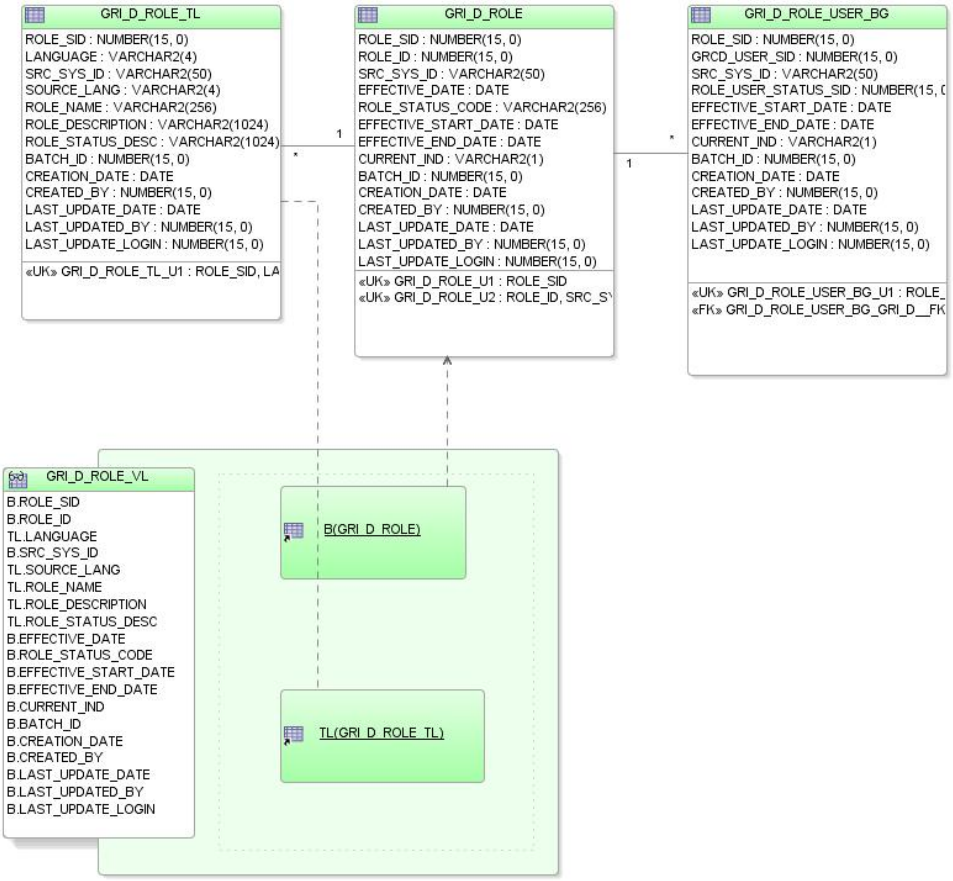
- **User**


GRI_D_APPS_USER_TL
APPS_USER_SID : NUMBER(15, 0)
LANGUAGE : VARCHAR2(4)
SRC_SYS_ID : VARCHAR2(50)
INSTANCE_SID : NUMBER(15, 0)
SOURCE_LANG : VARCHAR2(4)
DISPLAY_NAME : VARCHAR2(256)
USER_NAME : VARCHAR2(256)
FIRST_NAME : VARCHAR2(256)
LAST_NAME : VARCHAR2(256)
USER_DESC : VARCHAR2(1024)
BATCH_ID : NUMBER(15, 0)
CREATION_DATE : DATE
CREATED_BY : NUMBER(15, 0)
LAST_UPDATE_DATE : DATE
LAST_UPDATED_BY : NUMBER(15, 0)
LAST_UPDATE_LOGIN : NUMBER(15, 0)
«UK» GRI_D_APPS_USER_TL_U1 : APPS_
GRI_D_APPS_USER
APPS_USER_SID : NUMBER(15, 0)
GLOBAL_USER_NAME : VARCHAR2(256)
RELATED_USER_ID : VARCHAR2(256)
SRC_SYS_ID : VARCHAR2(50)
INSTANCE_SID : NUMBER(15, 0)
IDENTIFYING_VALUES : VARCHAR2(256)
USER_START_DATE : DATE
USER_END_DATE : DATE
EMPLOYEE_ID : NUMBER(15, 0)
APPS_USER_STATUS : VARCHAR2(256)
EFFECTIVE_START_DATE : DATE
EFFECTIVE_END_DATE : DATE
CURRENT_IND : VARCHAR2(1)
BATCH_ID : NUMBER(15, 0)
CREATION_DATE : DATE
CREATED_BY : NUMBER(15, 0)
LAST_UPDATE_DATE : DATE
LAST_UPDATED_BY : NUMBER(15, 0)
LAST_UPDATE_LOGIN : NUMBER(15, 0)
«UK» GRI_D_APPS_USER_U1 : RELATED_USER_
«UK» GRI_D_APPS_USER_UK1 : APPS_USER_SI
GRI_D_GBL_USER
GLOBAL_USER_SID : NUMBER(15, 0)
GLOBAL_USER_NAME : VARCHAR2(256)
SRC_SYS_ID : VARCHAR2(50)
BATCH_ID : NUMBER(15, 0)
CREATION_DATE : DATE
CREATED_BY : NUMBER(15, 0)
LAST_UPDATE_DATE : DATE
LAST_UPDATED_BY : NUMBER(15, 0)
LAST_UPDATE_LOGIN : NUMBER(15, 0)
«UK» GRI_D_GBL_USER_U1 : GLOBAL_U
«UK» GRI_D_GBL_USER_U2 : GLOBAL_U
1
*
GRI_D_APPS_USER_VL
B.APPS_USER_SID
B.GLOBAL_USER_SID
B.GLOBAL_USER_NAME
B.RELATED_USER_ID
TL.LANGUAGE
TL.SOURCE_LANG
B.SRC_SYS_ID
B.INSTANCE_SID
B.IDENTIFYING_VALUES
TL.DISPLAY_NAME
TL.USER_NAME
TL.FIRST_NAME
TL.LAST_NAME
TL.USER_DESC
B.USER_START_DATE
B.USER_END_DATE
B.EMPLOYEE_ID
B.APPS_USER_STATUS
TL.APPS_USER_STATUS_DESC
B.EFFECTIVE_START_DATE
B.EFFECTIVE_END_DATE
B.CURRENT_IND
B.BATCH_ID
B.CREATION_DATE
B.CREATED_BY
B.LAST_UPDATE_DATE
B.LAST_UPDATED_BY
B(GRI_D_APPS_USER)
TL(GRI_D_APPS_USER_TL)
GRI_D_APPS_USER_ALL_VL
Superset of Application and Global Users.
GRCD_USERS
GRCD_USER_SID : NUMBER(15, 0)
USER_ID : NUMBER(15, 0)
SRC_SYS_ID : VARCHAR2(5)
USERNAME : NVARCHAR2(765)
GROUPNAME : NVARCHAR2(1500)
DISPLAYNAME : NVARCHAR2(1500)
PASSWORD : NVARCHAR2(765)
LOGLEVEL : NUMBER(1, 0)
USER_EMAIL_ID_1 : VARCHAR2(240)
USER_EMAIL_ID_2 : VARCHAR2(240)
MOBILE_PHONE : VARCHAR2(80)
USER_STATUS : VARCHAR2(50)
BATCH_ID : NUMBER(15, 0)
CREATION_DATE : DATE
CREATED_BY : NUMBER(15, 0)
LAST_UPDATE_DATE : DATE
«UK» GRCD_USERS_UK1 : GRCD_USER_S
GRCD_USERS_TL
GRCD_USER_SID : NUMBER(15, 0)
LANGUAGE : VARCHAR2(4)
SRC_SYS_ID : VARCHAR2(5)
SOURCE_LANG : VARCHAR2(4)
USER_NAME_DESC : VARCHAR2(1024)
FIRST_NAME : VARCHAR2(256)
LAST_NAME : VARCHAR2(256)
USER_STATUS_DESC : VARCHAR2(1024)
USER_ADDR : VARCHAR2(1024)
BATCH_ID : NUMBER(15, 0)
CREATION_DATE : DATE
CREATED_BY : NUMBER(15, 0)
LAST_UPDATE_DATE : DATE
LAST_UPDATED_BY : NUMBER(15, 0)
LAST_UPDATE_LOGIN : VARCHAR2(15)
GRCD_USERS_VL
B.GRCD_USER_SID
B.USER_ID
TL.LANGUAGE
B.SRC_SYS_ID
TL.SOURCE_LANG
TL.USER_NAME_DESC
TL.FIRST_NAME
TL.LAST_NAME
TL.USER_STATUS_DESC
TL.USER_ADDR
B.USERNAME
B.GROUPNAME
B.DISPLAYNAME
B.PASSWORD
B.LOGLEVEL
B.USER_EMAIL_ID_1
B.USER_EMAIL_ID_2
B.MOBILE_PHONE
B.USER_STATUS
B.BATCH_ID
B(GRCD_USERS)
TL(GRCD_USERS_TL)

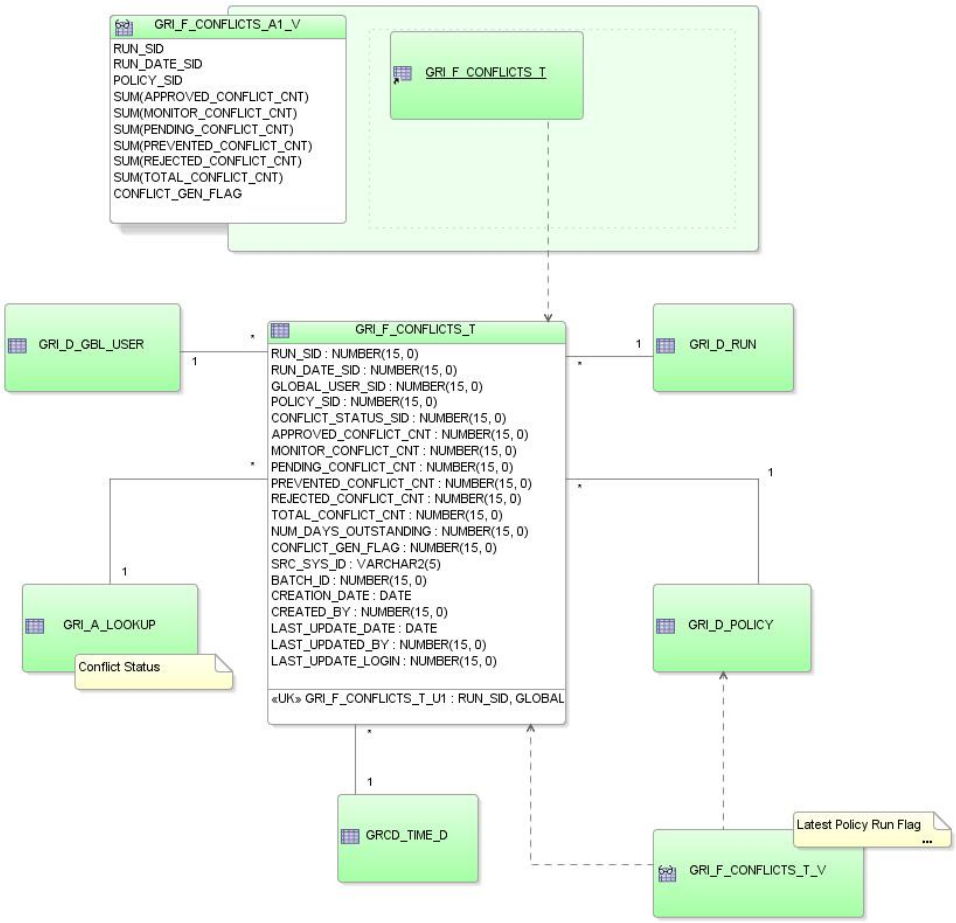
- **Time**


GRCD_TIME_TL
TIME_KEY : NUMBER(30, 0)
LANGUAGE : VARCHAR2(10)
SOURCE_LANG : VARCHAR2(10)
LOCALE : VARCHAR2(10)
DAY_NAME : NVARCHAR2(90)
LAST_DAY_IN_MTH_IND : NVARCHAR2(3
MTH_NAME : NVARCHAR2(90)
QTR_NAME : NVARCHAR2(90)
HOLIDAY_IND : NVARCHAR2(30)
WKDAY_IND : NVARCHAR2(30)
DAY_ABBREV : NVARCHAR2(90)
MTH_ABBREV : NVARCHAR2(90)
1
*
GRCD_TIME_D
TIME_KEY : NUMBER(30, 0)
CREATE_DT : DATE
TIME_DT : DATE
DAY_NAME : NVARCHAR2(90)
DAY_NBR : NUMBER
LAST_UPDATE_DT : DATE
LAST_DAY_IN_MTH_IND : NVARCHAR2(3
MTH_NAME : NVARCHAR2(90)
MTH_NBR : NUMBER
QTR_NAME : NVARCHAR2(90)
QTR_NBR : NUMBER
YR_MTH : NUMBER
YR_NBR : NUMBER
WK_END_DT : DATE
WK_START_DT : DATE
WK_NBR : NUMBER
DAY_NBR_OVERALL : NUMBER
DAY_OF_WK : NUMBER
HOLIDAY_IND : NVARCHAR2(3)
WKDAY_IND : NVARCHAR2(3)
DAY_ABBREV : NVARCHAR2(90)
MTH_NBR_OVERALL : NUMBER
MTH_ABBREV : NVARCHAR2(90)
YR_QTR : NUMBER
WK_NBR_OVERALL : NUMBER
QTR_NBR_OVERALL : NUMBER
«UK» GRCD_TIME_D_UK1 : TIME_KEY
TL(GRCD_TIME_TL)
GRCD_TIME_VL
BASE.TIME_KEY
TL.LANGUAGE
TL.SOURCE_LANG
TL.LOCALE
BASE.CREATE_DT
BASE.TIME_DT
TL.DAY_NAME
BASE.DAY_NBR
BASE.LAST_UPDATE_DT
TL.LAST_DAY_IN_MTH_IND
TL.MTH_NAME
BASE.MTH_NBR
TL.QTR_NAME
BASE.QTR_NBR
BASE.YR_MTH
BASE.YR_NBR
BASE.WK_END_DT
BASE.WK_START_DT
BASE.WK_NBR
BASE.DAY_NBR_OVERALL
BASE.DAY_OF_WK
TL.HOLIDAY_IND
TL.WKDAY_IND
TL.DAY_ABBREV
BASE.MTH_NBR_OVERALL
TL.MTH_ABBREV
BASE.YR_QTR
BASE.WK_NBR_OVERALL
BASE.QTR_NBR_OVERALL

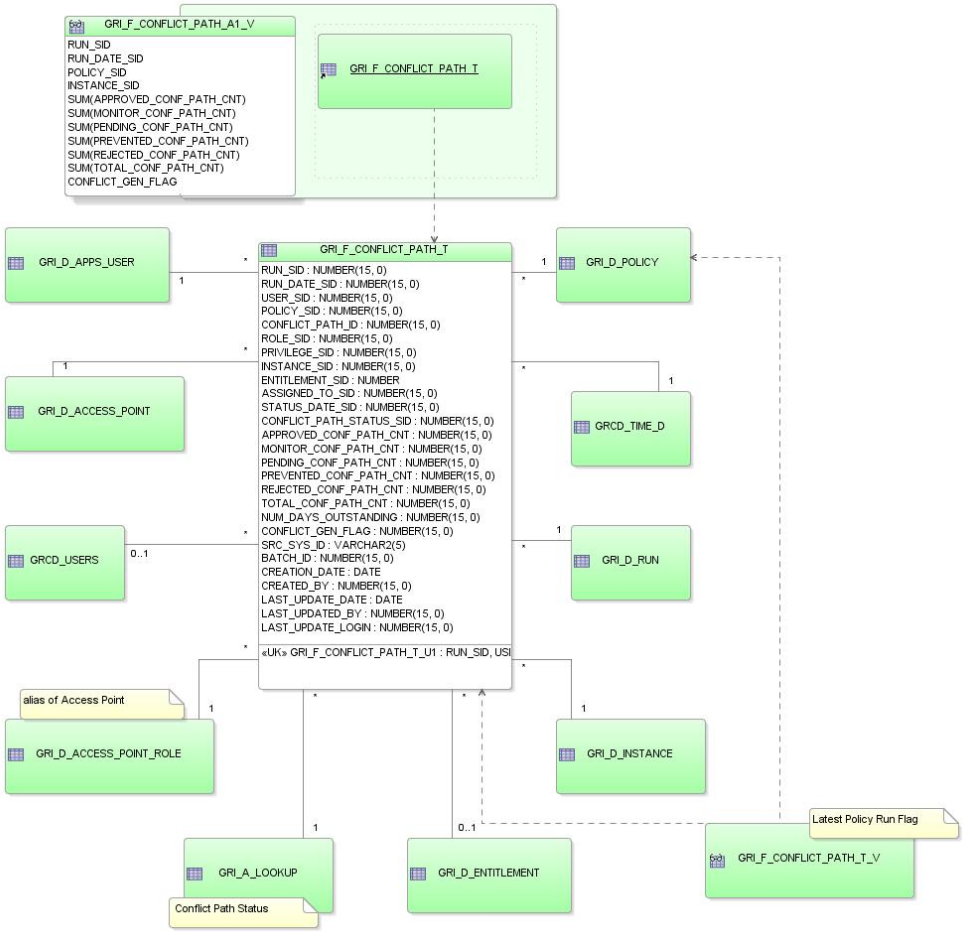
- **AG Role**



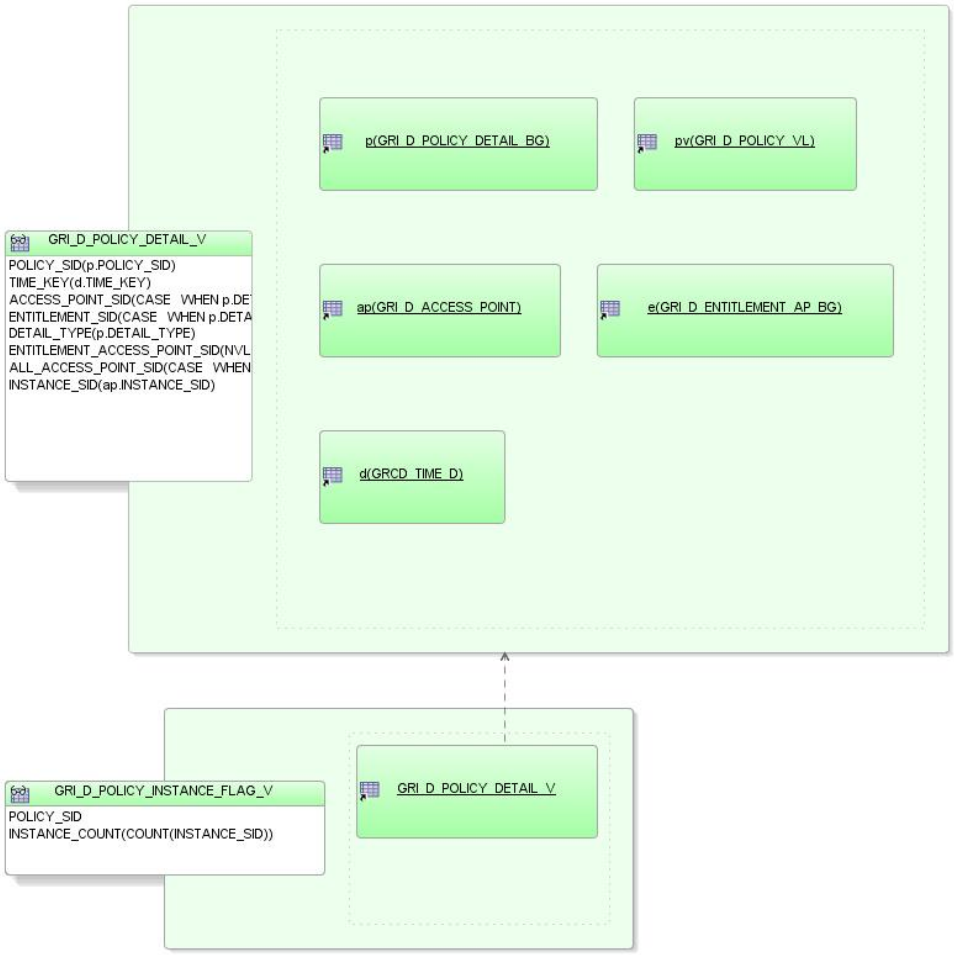
- **Conflicts Star**



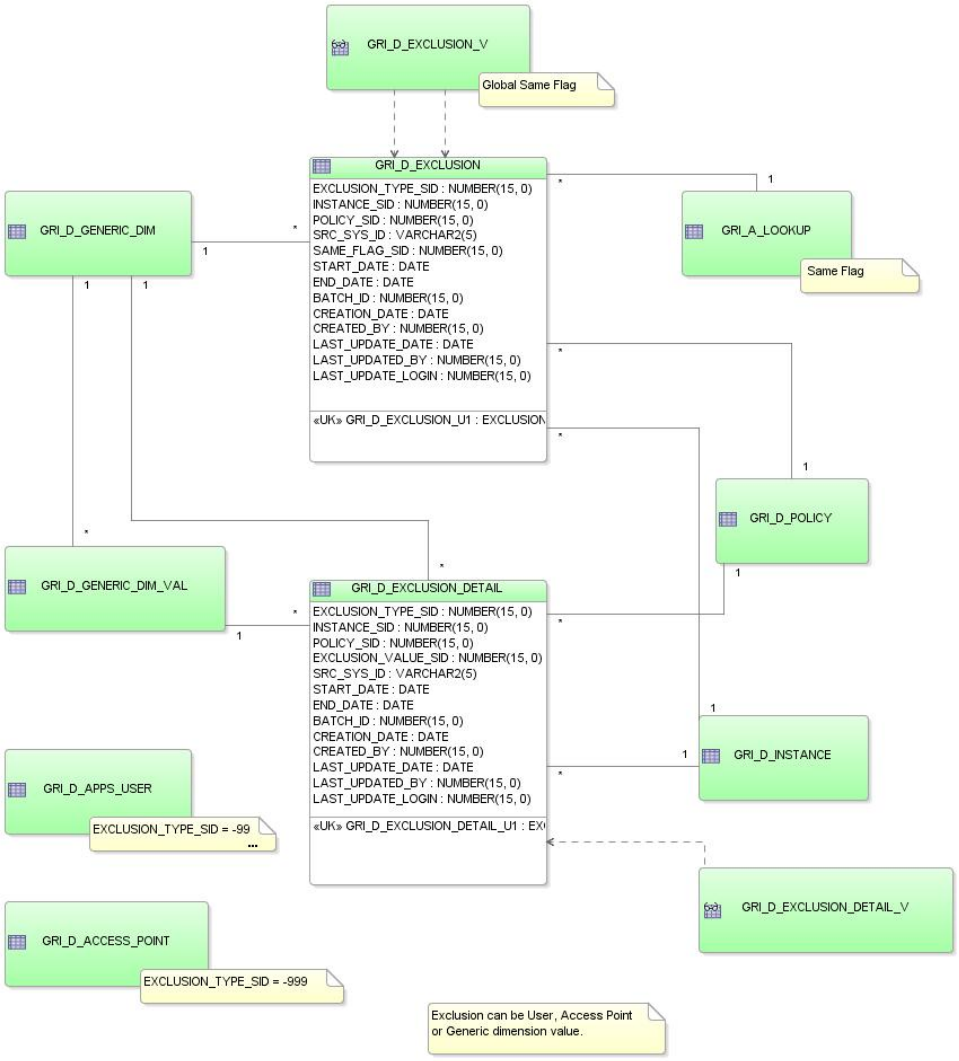
- **Conflict Path Star**



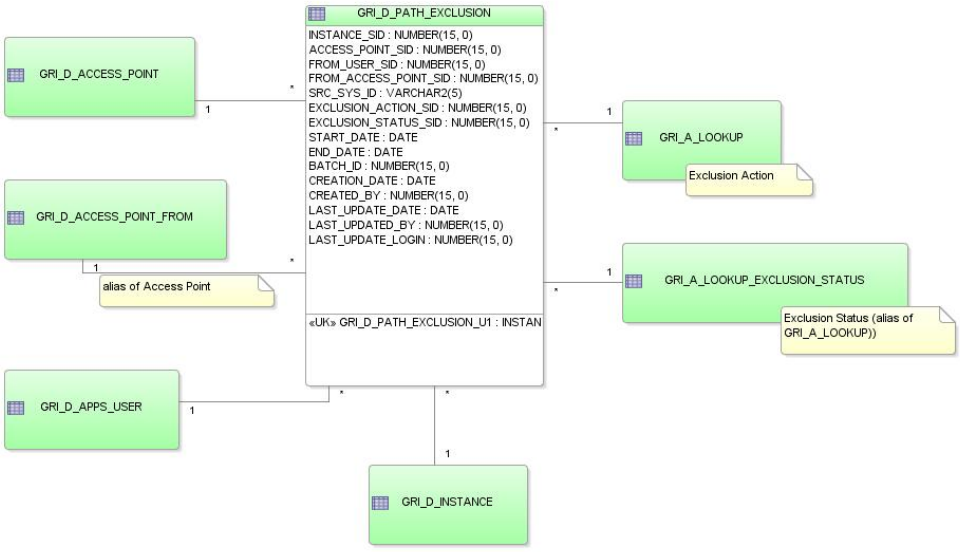
- **Policy Detail Star**



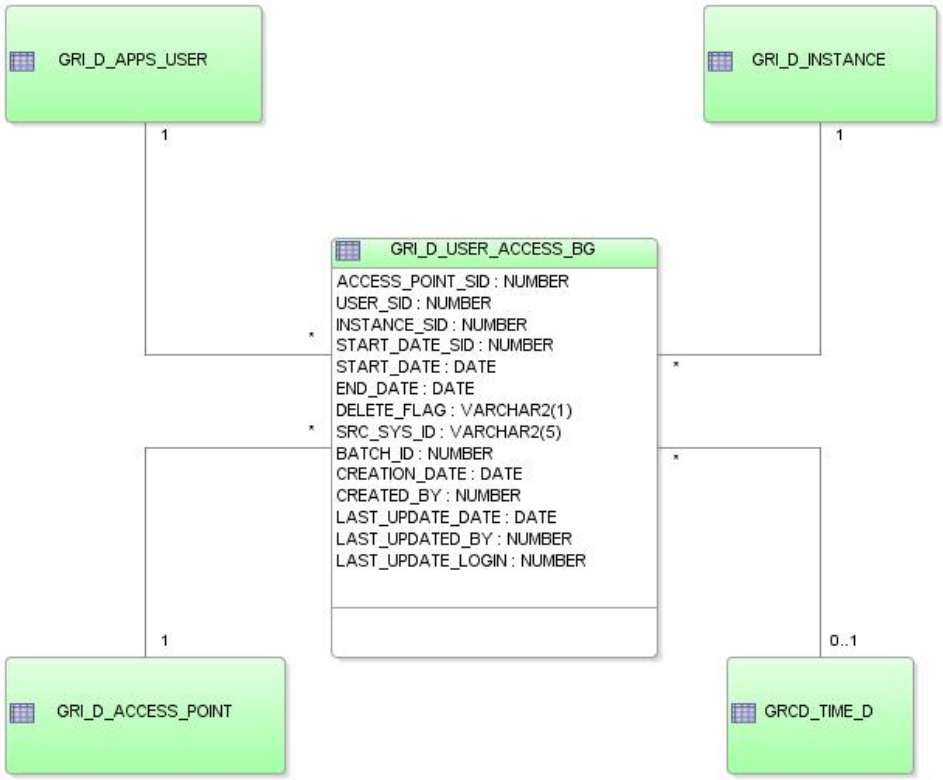
- **Exclusions Star**



- **Path Exclusions Star**



- **User Access Star**


GRI_D_APPS_USER
GRI_D_INSTANCE
GRI_D_USER_ACCESS_BG
ACCESS_POINT_SID : NUMBER
USER_SID : NUMBER
INSTANCE_SID : NUMBER
START_DATE_SID : NUMBER
START_DATE : DATE
END_DATE : DATE
DELETE_FLAG : VARCHAR2(1)
SRC_SYS_ID : VARCHAR2(5)
BATCH_ID : NUMBER
CREATION_DATE : DATE
CREATED_BY : NUMBER
LAST_UPDATE_DATE : DATE
LAST_UPDATED_BY : NUMBER
LAST_UPDATE_LOGIN : NUMBER
1
1
*
*
*
*
1
0..1
GRI_D_ACCESS_POINT
GRCD_TIME_D

D

Lineage for Enterprise GRC Manager 8.0.1

This appendix covers the following topics:

- Lineage Information for Tables and Scripts
- GRCI 3.0.1 - EGRCM 8.0.1 Data Lineage STAGES Table
- GRCI 3.0.1 - EGRCM 8.0.1 Data Lineage DIMENSIONS Table
- GRCI 3.0.1. - EGRCM 8.0.1 Data Lineage FACTS Table

Lineage Information for Tables and Scripts

This section provides the source (EGRCM) to target (GRCI) lineage information on various objects such as Stages, Dimensions and Facts and the scripts used to load them. The first set of images illustrates lineage of Stages used in GRCI, followed by lineage of dimensions and facts. As indicated by the file name column in all the three tables, the load of stages, dimensions and facts is accomplished using ODI scripts.

GRCI 3.0.1 - EGRCM 8.0.1 Data Lineage STAGES Table

The following images provide lineage information on **Staging** that are loaded from EGRCM into GRCI.

All of these packages are part of **GRI_MASTER_EGRC_PKG** and **GRI_STAGE_EGRC_PKG**.

NO	Source Table	Target Table	Package Lineage	Interface Name
1	GRC_LOOKUPS_B	GRI_A_LOOKUP	GRI_A_LOOKUP_ALL_PKG GRI_A_LOOKUP_PKG	GRI_A_LOOKUP_INTR
2	GRC_LOOKUPS_TL	GRI_A_LOOKUP_TL	GRI_A_LOOKUP_ALL_PKG GRI_A_LOOKUP_TL_PKG	GRI_A_LOOKUP_TL_INTR
3	GRC_UDA_B	GRI_A_UDA_B	GRI_A_UDA_PKG GRI_A_UDA_B_PKG	GRI_A_UDA_B_INTR
4	GRC_UDA_COLUMNS	GRI_A_UDA_COLUMNS	GRI_A_UDA_PKG GRI_A_UDA_COLUMNS_PKG	GRI_A_UDA_COLUMNS_INTR
5	GRC_UDA_TL	GRI_A_UDA_TL	GRI_A_UDA_PKG GRI_A_UDA_TL_PKG	GRI_A_UDA_TL_INTR
6	GRC_ACTV_ACTIVITIES_B	GRI_S_ACTV_ACTIVITIES_B	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ACTV_ACTIVITIES_PKG GRI_S_ACTV_ACTIVITIES_B_PKG	GRI_S_ACTV_ACTIVITIES_B_INTR
7	GRC_ACTV_ACTIVITIES_TL	GRI_S_ACTV_ACTIVITIES_TL	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ACTV_ACTIVITIES_PKG GRI_S_ACTV_ACTIVITIES_TL_PKG	GRI_S_ACTV_ACTIVITIES_TL_INTR
8	GRC_ACTV_RESPS_B	GRI_S_ACTV_RESPS_B	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ACTV_RESPS_PKG GRI_S_ACTV_RESPS_B_PKG	GRI_S_ACTV_RESPS_B_INTR
9	GRC_ACTV_RESPS_TL	GRI_S_ACTV_RESPS_TL	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ACTV_RESPS_PKG GRI_S_ACTV_RESPS_TL_PKG	GRI_S_ACTV_RESPS_TL_INTR
10	GRC_ASMT_ACTVOBJACCSRS	GRI_S_ASMT_ACTVOBJACCSRS	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ASMT_ACTVOBJACCSRS_PKG	GRI_S_ASMT_ACTVOBJACCSRS_INTR
11	GRC_ASMT_ACTVOBJTYPES	GRI_S_ASMT_ACTVOBJTYPES	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ASMT_ACTVOBJTYPES_PKG	GRI_S_ASMT_ACTVOBJTYPES_INTR
12	GRC_ASMT_ACTVRSLTS	GRI_S_ASMT_ACTVRSLTS	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ASMT_ACTVRSLTS_PKG	GRI_S_ASMT_ACTVRSLTS_INTR
13	GRC_ASMT_ACTVRSLT_UDA_B	GRI_S_ASMT_ACTVRSLT_UDA_B	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ASMT_ACTVRSLTS_UDA_B_PKG	GRI_S_ASMT_ACTVRSLT_UDA_B_INTR
14	GRC_ASMT_ACTVRSLT_UDA_TL	GRI_S_ASMT_ACTVRSLT_UDA_TL	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ASMT_ACTVRSLTS_UDA_TL_PKG	GRI_S_ASMT_ACTVRSLT_UDA_TL_INTR
15	GRC_ASMT_OBJECTS	GRI_S_ASMT_OBJECTS	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ASMT_OBJECTS_PKG	GRI_S_ASMT_OBJECTS_INTR
16	GRC_ASMT_PLANACVOBJTYPS	GRI_S_ASMT_PLANACVOBJTYPS	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ASMT_PLANACVOBJTYPS_PKG	GRI_S_ASMT_PLANACVOBJTYPS_INTR
17	GRC_ASMT_PLANS_B	GRI_S_ASMT_PLANS_B	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ASMT_PLANS_PKG GRI_S_ASMT_PLANS_B_PKG	GRI_S_ASMT_PLANS_B_INTR
18	GRC_ASMT_PLANS_TL	GRI_S_ASMT_PLANS_TL	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ASMT_PLANS_PKG GRI_S_ASMT_PLANS_TL_PKG	GRI_S_ASMT_PLANS_TL_INTR
19	GRC_ASMT_TEMPLATES_TL	GRI_S_ASMT_TEMPLATES_TL	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ASMT_TEMPLATES_PKG GRI_S_ASMT_TEMPLATES_TL_PKG	GRI_S_ASMT_TEMPLATES_TL_INTR
20	GRC_ASMT_TEMPLATES_B	GRI_S_ASMT_TEMPLATES_B	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ASMT_TEMPLATES_PKG GRI_S_ASMT_TEMPLATES_B_PKG	GRI_S_ASMT_TEMPLATES_B_INTR
21	GRC_ASMT_TINSRSLTS	GRI_S_ASMT_TINSRSLTS	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ASMT_TINSRSLTS_PKG	GRI_S_ASMT_TINSRSLTS_INTR
22	GRC_ASMT_TINSRSLTS_UDA_B	GRI_S_ASMT_TINSRSLTS_UDA_B	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ASMT_TINSRSLTS_UDA_B_PKG	GRI_S_ASMT_TINSRSLTS_UDA_B_INTR
23	GRC_ASMT_TINSRSLTS_UDA_TL	GRI_S_ASMT_TINSRSLTS_UDA_TL	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ASMT_TINSRSLTS_UDA_TL_PKG	GRI_S_ASMT_TINSRSLTS_UDA_TL_INTR
24	GRC_ASMT_TPLNRSLTS	GRI_S_ASMT_TPLNRSLTS	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ASMT_TPLNRSLTS_PKG	GRI_S_ASMT_TPLNRSLTS_INTR
25	GRC_ASMT_TPLNRSLT_UDA_B	GRI_S_ASMT_TPLNRSLT_UDA_B	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ASMT_TPLNRSLTS_UDA_B_PKG	GRI_S_ASMT_TPLNRSLT_UDA_B_INTR
26	GRC_ASMT_TPLNRSLT_UDA_TL	GRI_S_ASMT_TPLNRSLT_UDA_TL	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ASMT_TPLNRSLTS_UDA_TL_PKG	GRI_S_ASMT_TPLNRSLT_UDA_TL_INTR
27	GRC_ASMT_TREENODEDEPS	GRI_S_ASMT_TREENODEDEPS	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ASMT_TREENODEDEPS_PKG	GRI_S_ASMT_TREENODEDEPS_INTR
28	GRC_ASMT_TSTPLANEXECS	GRI_S_ASMT_TSTPLANEXECS	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ASMT_TSTPLANEXECS_PKG	GRI_S_ASMT_TSTPLANEXECS_INTR
29	GRC_ASMT_TSTPRSLTS	GRI_S_ASMT_TSTPRSLTS	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ASMT_TSTPRSLTS_PKG	GRI_S_ASMT_TSTPRSLTS_INTR
30	GRC_ASSESSMENTS_TL	GRI_S_ASSESSMENTS_TL	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ASSESSMENTS_PKG GRI_S_ASSESSMENTS_TL_PKG	GRI_S_ASSESSMENTS_TL_INTR
31	GRC_ASSESSMENTS_B	GRI_S_ASSESSMENTS_B	GRI_S_ASSESSMENTS_ALL_PKG GRI_S_ASSESSMENTS_PKG GRI_S_ASSESSMENTS_B_PKG	GRI_S_ASSESSMENTS_B_INTR
32	GRC_MODULE_ASSOCIATIONS	GRI_S_MODULE_ASSOCIATIONS	GRI_S_ASSOCIATION_PKG GRI_S_MODULE_ASSOCIATIONS_PKG	GRI_S_MODULE_ASSOCIATIONS_INTR
33	GRC_MODULE_DEFINITIONS_TL	GRI_S_MODULE_DEFINITIONS_TL	GRI_S_ASSOCIATION_PKG GRI_S_MODULE_DEFINITIONS_PKG GRI_S_MODULE_DEFINITIONS_TL_PKG	GRI_S_MODULE_DEFINITIONS_TL_INTR
34	GRC_MODULE_DEFINITIONS_B	GRI_S_MODULE_DEFINITIONS_B	GRI_S_ASSOCIATION_PKG GRI_S_MODULE_DEFINITIONS_PKG GRI_S_MODULE_DEFINITIONS_B_PKG	GRI_S_MODULE_DEFINITIONS_B_INTR
35	GRC_OBJECT_ASSOCIATIONS	GRI_S_OBJECT_ASSOCIATIONS	GRI_S_ASSOCIATION_PKG GRI_S_OBJECT_ASSOCIATIONS_PKG	GRI_S_OBJECT_ASSOCIATIONS_INTR
36	GRC_OBJECT_CLASSES_B	GRI_S_OBJECT_CLASSES_B	GRI_S_ASSOCIATION_PKG GRI_S_OBJECT_CLASSES_PKG GRI_S_OBJECT_CLASSES_B_PKG	GRI_S_OBJECT_CLASSES_B_INTR
37	GRC_OBJECT_CLASSES_TL	GRI_S_OBJECT_CLASSES_TL	GRI_S_ASSOCIATION_PKG GRI_S_OBJECT_CLASSES_PKG GRI_S_OBJECT_CLASSES_TL_PKG	GRI_S_OBJECT_CLASSES_TL_INTR

38	GRC_OBJECT_TYPES_TL	GRI_S_OBJECT_TYPES_TL	GRI_S_ASSOCIATION_PKG GRI_S_OBJECT_TYPES_PKG GRI_S_OBJECT_TYPES_TL_PKG	GRI_S_OBJECT_TYPES_TL_INTR
39	GRC_OBJECT_TYPES_B	GRI_S_OBJECT_TYPES_B	GRI_S_ASSOCIATION_PKG GRI_S_OBJECT_TYPES_PKG GRI_S_OBJECT_TYPES_B_PKG	GRI_S_OBJECT_TYPES_B_INTR
40	GRC_COMPONENTS_B	GRI_S_COMPONENTS_B	GRI_S_COMPONENTS_PKG GRI_S_COMPONENTS_B_PKG	GRI_S_COMPONENTS_B_INTR
41	GRC_COMPONENTS_TL	GRI_S_COMPONENTS_TL	GRI_S_COMPONENTS_PKG GRI_S_COMPONENTS_TL_PKG	GRI_S_COMPONENTS_TL_INTR
42	GRC_COMPONENTS_UDA_B	GRI_S_COMPONENTS_UDA_B	GRI_S_COMPONENTS_PKG GRI_S_COMPONENTS_UDA_B_PKG	GRI_S_COMPONENTS_UDA_B_INTR
43	GRC_COMPONENTS_UDA_TL	GRI_S_COMPONENTS_UDA_TL	GRI_S_COMPONENTS_PKG GRI_S_COMPONENTS_UDA_TL_PKG	GRI_S_COMPONENTS_UDA_TL_INTR
44	GRC_CTRL_ASSERTIONS	GRI_S_CTRL_ASSERTIONS	GRI_S_CONTROLS_ALL_PKG GRI_S_CONTROLS_PKG GRI_S_CTRL_ASSERTIONS_PKG	GRI_S_CTRL_ASSERTIONS_INTR
45	GRC_CONTROLS_UDA_TL	GRI_S_CONTROLS_UDA_TL	GRI_S_CONTROLS_ALL_PKG GRI_S_CONTROLS_PKG GRI_S_CONTROLS_UDA_TL_PKG	GRI_S_CONTROLS_UDA_TL_INTR
46	GRC_CONTROLS_UDA_B	GRI_S_CONTROLS_UDA_B	GRI_S_CONTROLS_ALL_PKG GRI_S_CONTROLS_PKG GRI_S_CONTROLS_UDA_B_PKG	GRI_S_CONTROLS_UDA_B
47	GRC_CONTROLS_TL	GRI_S_CONTROLS_TL	GRI_S_CONTROLS_ALL_PKG GRI_S_CONTROLS_PKG GRI_S_CONTROLS_TL_PKG	GRI_S_CONTROLS_TL_INTR
48	GRC_CONTROLS_B	GRI_S_CONTROLS_B	GRI_S_CONTROLS_ALL_PKG GRI_S_CONTROLS_PKG GRI_S_CONTROLS_B_PKG	GRI_S_CONTROLS_B_INTR
49	GRC_CTRL_TEST_INSTRS_UDA_B	GRI_S_CTRL_TEST_INSTRS_UDA_B	GRI_S_CONTROLS_ALL_PKG GRI_S_CTRL_TEST_INSTRS_PKG GRI_S_CTRL_TEST_INSTRS_UDA_B_PKG	GRI_S_CTRL_TEST_INSTRS_UDA_B_INTR
50	GRC_CTRL_TEST_INSTRS_UDA_TL	GRI_S_CTRL_TEST_INSTRS_UDA_TL	GRI_S_CONTROLS_ALL_PKG GRI_S_CTRL_TEST_INSTRS_PKG GRI_S_CTRL_TEST_INSTRS_UDA_TL_PKG	GRI_S_CTRL_TEST_INSTRS_UDA_TL_INTR
51	GRC_CTRL_TEST_INSTRS_TL	GRI_S_CTRL_TEST_INSTRS_TL	GRI_S_CONTROLS_ALL_PKG GRI_S_CTRL_TEST_INSTRS_PKG GRI_S_CTRL_TEST_INSTRS_TL_PKG	GRI_S_CTRL_TEST_INSTRS_TL_INTR
52	GRC_CTRL_TEST_INSTRS_B	GRI_S_CTRL_TEST_INSTRS_B	GRI_S_CONTROLS_ALL_PKG GRI_S_CTRL_TEST_INSTRS_PKG GRI_S_CTRL_TEST_INSTRS_B_PKG	GRI_S_CTRL_TEST_INSTRS_B_INTR
53	GRC_CTRL_TEST_PLANS_TL	GRI_S_CTRL_TEST_PLANS_TL	GRI_S_CONTROLS_ALL_PKG GRI_S_CTRL_TEST_PLANS_PKG GRI_S_CTRL_TEST_PLANS_TL_PKG	GRI_S_CTRL_TEST_PLANS_TL_INTR

54	GRC_CTRL_TEST_PLANS_B	GRI_S_CTRL_TEST_PLANS_B	GRI_S_CONTROLS_ALL_PKG GRI_S_CTRL_TEST_PLANS_PKG GRI_S_CTRL_TEST_PLANS_B_PKG	GRI_S_CTRL_TEST_PLANS_B_INTR
55	GRC_CTRL_TPLANACTV	GRI_S_CTRL_TPLANACTV	GRI_S_CONTROLS_ALL_PKG GRI_S_CTRL_TEST_PLANS_PKG GRI_S_CTRL_TPLANACTV_PKG	GRI_S_CTRL_TPLANACTV_INTR
56	GRC_CTRL_TEST_PLANS_UDA_TL	GRI_S_CTRL_TEST_PLANS_UDA_TL	GRI_S_CONTROLS_ALL_PKG GRI_S_CTRL_TEST_PLANS_PKG GRI_S_CTRL_TEST_PLANS_UDA_TL_PKG	GRI_S_CTRL_TEST_PLANS_UDA_TL_INTR
57	GRC_CTRL_TEST_PLANS_UDA_B	GRI_S_CTRL_TEST_PLANS_UDA_B	GRI_S_CONTROLS_ALL_PKG GRI_S_CTRL_TEST_PLANS_PKG GRI_S_CTRL_TEST_PLANS_UDA_B_PKG	GRI_S_CTRL_TEST_PLANS_UDA_B_INTR
58	GRC_CTRL_TEST_STEPS_B	GRI_S_CTRL_TEST_STEPS_B	GRI_S_CONTROLS_ALL_PKG GRI_S_CTRL_TEST_STEPS_PKG GRI_S_CTRL_TEST_STEPS_B_PKG	GRI_S_CTRL_TEST_STEPS_B_INTR
59	GRC_CTRL_TEST_STEPS_TL	GRI_S_CTRL_TEST_STEPS_TL	GRI_S_CONTROLS_ALL_PKG GRI_S_CTRL_TEST_STEPS_PKG GRI_S_CTRL_TEST_STEPS_TL_PKG	GRI_S_CTRL_TEST_STEPS_TL_INTR
60	GRC_EGRC_ROLE	GRI_S_EGRC_ROLE	GRI_S_EGRC_ROLE_PKG	GRI_S_EGRC_ROLE_INTR
61	GRC_EGRC_USERS	GRI_S_EGRC_USERS	GRI_S_EGRC_USERS_PKG	GRI_S_EGRC_USERS_INTR
62	GRC_ISSUES_B	GRI_S_ISSUES_B	GRI_S_ISSUES_PKG GRI_S_ISSUES_B_PKG	GRI_S_ISSUES_B_INTR
63	GRC_ISSUES_OBJECTS_BG	GRI_S_ISSUES_OBJECTS_BG	GRI_S_ISSUES_PKG GRI_S_ISSUES_OBJECTS_B_PKG_1	GRI_S_ISSUES_OBJECTS_BG_INTR_1
64	GRC_ISSUES_OBJECTS_BG	GRI_S_ISSUES_OBJECTS_BG	GRI_S_ISSUES_PKG GRI_S_ISSUES_OBJECTS_B_PKG_2	GRI_S_ISSUES_OBJECTS_BG_INTR_2
65	GRC_ISSUES_OBJECTS_BG	GRI_S_ISSUES_OBJECTS_BG	GRI_S_ISSUES_PKG GRI_S_ISSUES_OBJECTS_B_PKG_3	GRI_S_ISSUES_OBJECTS_BG_INTR_3
66	GRC_ISSUES_OBJECTS_BG	GRI_S_ISSUES_OBJECTS_BG	GRI_S_ISSUES_PKG GRI_S_ISSUES_OBJECTS_B_PKG_4	GRI_S_ISSUES_OBJECTS_BG_INTR_4
67	GRC_ISSUES_TL GRC_ISSUES_B	GRI_S_ISSUES_TL	GRI_S_ISSUES_PKG GRI_S_ISSUES_TL_PKG	GRI_S_ISSUES_TL_INTR
68	GRC_ISSUES_UDA_B	GRI_S_ISSUES_UDA_B	GRI_S_ISSUES_PKG GRI_S_ISSUES_UDA_B_PKG	GRI_S_ISSUES_UDA_B_INTR
69	GRC_ISSUES_UDA_TL	GRI_S_ISSUES_UDA_TL	GRI_S_ISSUES_PKG GRI_S_ISSUES_UDA_TL_PKG	GRI_S_ISSUES_UDA_TL_INTR
70	GRC_ASSOC_PERSP	GRI_S_ASSOC_PERSP	GRI_S_PERSPECTIVES_PKG GRI_S_ASSOC_PERSP_PKG	GRI_S_ASSOC_PERSP_INTR
71	GRC_PERSP_ITEMS_B	GRI_S_PERSP_ITEMS_B	GRI_S_PERSPECTIVES_PKG GRI_S_PERSP_ITEMS_PKG GRI_S_PERSP_ITEMS_B_PKG	GRI_S_PERSP_ITEMS_B_INTR
72	GRC_PERSP_ITEMS_UDA_TL	GRI_S_PERSP_ITEMS_UDA_TL	GRI_S_PERSPECTIVES_PKG GRI_S_PERSP_ITEMS_PKG GRI_S_PERSP_ITEMS_UDA_TL_PKG	GRI_S_PERSP_ITEMS_UDA_TL_INTR

73	GRC_PERSP_ITEMS_UDA_B	GRI_S_PERSP_ITEMS_UDA_B	GRI_S_PERSPECTIVES_PKG GRI_S_PERSP_ITEMS_PKG GRI_S_PERSP_ITEMS_UDA_B_PKG	GRI_S_PERSP_ITEMS_UDA_B_INTR
74	GRC_PERSP_ITEMS_TL	GRI_S_PERSP_ITEMS_TL	GRI_S_PERSPECTIVES_PKG GRI_S_PERSP_ITEMS_PKG GRI_S_PERSP_ITEMS_TL_PKG	GRI_S_PERSP_ITEMS_TL_INTR
75	GRC_PERSP_TREES_UDA_TL	GRI_S_PERSP_TREES_UDA_TL	GRI_S_PERSPECTIVES_PKG GRI_S_PERSP_ITEMS_PKG GRI_S_PERSP_ITEMS_TL_PKG	
76	GRC_PERSP_TREES_B GRC_TREES_B	GRI_S_PERSP_TREES_B	GRI_S_PERSPECTIVES_PKG GRI_S_PERSP_ITEMS_PKG GRI_S_PERSP_ITEMS_UDA_B_PKG	
77	GRC_TREES_TL	GRI_S_PERSP_TREES_TL	GRI_S_PERSPECTIVES_PKG GRI_S_PERSP_ITEMS_PKG GRI_S_PERSP_ITEMS_UDA_B_PKG	
78	GRC_PERSP_TREES_UDA_B	GRI_S_PERSP_TREES_UDA_B	GRI_S_PERSPECTIVES_PKG GRI_S_PERSP_ITEMS_PKG GRI_S_PERSP_ITEMS_UDA_TL_PKG	
79	GRC_TREE_NODES_B	GRI_S_TREE_NODES_B	GRI_S_PERSPECTIVES_PKG GRI_S_PERSP_ITEMS_PKG GRI_S_PERSP_ITEMS_B_PKG	
80	GRC_RISK_TREATMENT_PLAN_XREF	GRI_S_RISK_TREATMENT_PLAN_XREF	GRI_S_PERSPECTIVES_PKG GRI_S_PERSP_ITEMS_PKG GRI_S_PERSP_ITEMS_UDA_TL_PKG	
81	GRC_RISK_SIG_SIGDTL_XREF	GRI_S_PERSP_TREES_UDA_TL	GRI_S_PERSPECTIVES_PKG GRI_S_PERSP_TREES_PKG GRI_S_PERSP_TREES_UDA_TL_PKG	GRI_S_PERSP_TREES_UDA_TL_INTR
82	GRC_PERSP_TREES_B	GRI_S_PERSP_TREES_B	GRI_S_PERSPECTIVES_PKG GRI_S_PERSP_TREES_PKG GRI_S_PERSP_TREES_B_PKG	GRI_S_PERSP_TREES_B_INTR
83	GRC_PERSP_TREES_TL	GRI_S_PERSP_TREES_TL	GRI_S_PERSPECTIVES_PKG GRI_S_PERSP_TREES_PKG GRI_S_PERSP_TREES_TL_PKG	GRI_S_PERSP_TREES_TL_INTR
84	GRC_PERSP_TREES_UDA_B	GRI_S_PERSP_TREES_UDA_B	GRI_S_PERSPECTIVES_PKG GRI_S_PERSP_TREES_PKG GRI_S_PERSP_TREES_UDA_B_PKG	GRI_S_PERSP_TREES_UDA_B_INTR
85	GRC_TREE_NODES_B	GRI_S_TREE_NODES_B	GRI_S_PERSPECTIVES_PKG GRI_S_TREE_NODES_B_PKG	GRI_S_TREE_NODES_B_INTR
86	GRC_RISK_TREATMENT_PLAN_XREF	GRI_S_RISK_TREATMENT_PLAN_XREF	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_MISC_PKG GRI_S_RISK_TREAT_PLAN_XREF_PKG	GRI_S_RISK_TREAT_PLAN_XREF_INTR
87	GRC_RISK_SIG_SIGDTL_XREF	GRI_S_RISK_SIG_SIGDTL_XREF	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_MISC_PKG GRI_S_RISK_SIG_SIGDTL_XREF	GRI_S_RISK_SIG_SIGDTL_XREF_INTR

88	GRC_RISK_SIG_MODELS_TL	GRI_S_RISK_SIG_MODELS_TL	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_MISC_PKG GRI_S_RISK_SIG_MODELS_TL_PKG	GRI_S_RISK_SIG_MODELS_TL_INTR
89	GRC_RISK_SIG_MODELS_B	GRI_S_RISK_SIG_MODELS_B	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_MISC_PKG GRI_S_RISK_SIG_MODELS_B_PKG	GRI_S_RISK_SIG_MODELS_B_INTR
90	GRC_RISK_SIG_DETAILS_TL	GRI_S_RISK_SIG_DETAILS_TL	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_MISC_PKG GRI_S_RISK_SIG_DETAILS_TL_PKG	GRI_S_RISK_SIG_DETAILS_TL_INTR
91	GRC_RISK_SIG_DETAILS_B	GRI_S_RISK_SIG_DETAILS_B	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_MISC_PKG GRI_S_RISK_SIG_DETAILS_B_PKG	GRI_S_RISK_SIG_DETAILS_B_INTR
92	GRC_RISK_EVALUATION_DETAILS	GRI_S_RISK_EVALUATION_DETAILS	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_MISC_PKG GRI_S_RISK_EVALUATION_DETAILS_PKG	GRI_S_RISK_EVALUATION_DETAILS_INTR
93	GRC_RISK_EVALUATIONS_TL	GRI_S_RISK_EVALUATIONS_TL	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_MISC_PKG GRI_S_RISK_EVALUATIONS_TL_PKG	GRI_S_RISK_EVALUATIONS_TL_INTR
94	GRC_RISK_EVALUATIONS_B	GRI_S_RISK_EVALUATIONS_B	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_MISC_PKG GRI_S_RISK_EVALUATIONS_B_PKG	GRI_S_RISK_EVALUATIONS_B_INTR
95	GRC_RISK_CTX_CRT_XREF	GRI_S_RISK_CTX_CRT_XREF	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_MISC_PKG GRI_S_RISK_CTX_CRT_XREF_PKG	GRI_S_RISK_CTX_CRT_XREF_INTR
96	GRC_RISK_CRT_CRTDTL_XREF	GRI_S_RISK_CRT_CRTDTL_XREF	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_MISC_PKG GRI_S_RISK_CRT_CRTDTL_XREF_PKG	GRI_S_RISK_CRT_CRTDTL_XREF_INTR
97	GRC_RISK_CRITERIA	GRI_S_RISK_CRITERIA	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_MISC_PKG GRI_S_RISK_CRITERIA_PKG	GRI_S_RISK_CRITERIA_INTR
98	GRC_RISK_CONTEXT_MODELS_TL	GRI_S_RISK_CONTEXT_MODELS_TL	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_MISC_PKG GRI_S_RISK_CONTEXT_MODELS_TL_PKG	GRI_S_RISK_CONTEXT_MODELS_TL_INTR
99	GRC_RISK_CONTEXT_MODELS_B	GRI_S_RISK_CONTEXT_MODELS_B	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_MISC_PKG GRI_S_RISK_CONTEXT_MODELS_B_PKG	GRI_S_RISK_CONTEXT_MODELS_B_INTR
100	GRC_RISK_ANALYSES_TL	GRI_S_RISK_ANALYSES_TL	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_MISC_PKG GRI_S_RISK_ANALYSES_TL_PKG	GRI_S_RISK_ANALYSES_TL_INTR
101	GRC_RISK_ANALYSES_B	GRI_S_RISK_ANALYSES_B	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_MISC_PKG GRI_S_RISK_ANALYSES_B_PKG	GRI_S_RISK_ANALYSES_B_INTR
102	GRC_CRITERIA_DETAILS_TL	GRI_S_CRITERIA_DETAILS_TL	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_MISC_PKG GRI_S_CRITERIA_DETAILS_TL_PKG	GRI_S_CRITERIA_DETAILS_TL_INTR

103	GRC_CRITERIA_DETAILS_B	GRI_S_CRITERIA_DETAILS_B	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_MISC_PKG GRI_S_CRITERIA_DETAILS_B_PKG	GRI_S_CRITERIA_DETAILS_B_INTR
104	GRC_TREATPLAN_TREATMENT_XREF	GRI_S_TREATPLAN_TREATMENT_XREF	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_MISC_PKG GRI_S_TREATPLAN_TREAT_XREF_PKG	GRI_S_TREATPLAN_TREAT_XREF_INTR
105	GRC_TREATMENT_PLANS_TL	GRI_S_TREATMENT_PLANS_TL	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_MISC_PKG GRI_S_TREATMENT_PLANS_TL_PKG	GRI_S_TREATMENT_PLANS_TL_INTR
106	GRC_TREATMENT_PLANS_B	GRI_S_TREATMENT_PLANS_B	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_MISC_PKG GRI_S_TREATMENT_PLANS_B_PKG	GRI_S_TREATMENT_PLANS_B_INTR
107	GRC_TREATMENT_CONTROLS	GRI_S_TREATMENT_CONTROLS	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_MISC_PKG GRI_S_TREATMENT_CONTROLS_PKG	GRI_S_TREATMENT_CONTROLS_INTR
108	GRC_TREATMENTS_B	GRI_S_TREATMENTS_B	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_MISC_PKG GRI_S_TREATMENTS_B_PKG	GRI_S_TREATMENTS_B_INTR
109	GRC_TREATMENTS_TL	GRI_S_TREATMENTS_TL	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_MISC_PKG GRI_S_TREATMENTS_TL_PKG	GRI_S_TREATMENTS_TL_INTR
110	GRC_RISKS_B	GRI_S_RISKS_B	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_PKG GRI_S_RISKS_B_PKG	GRI_S_RISKS_B_INTR
111	GRC_RISKS_TL	GRI_S_RISKS_TL	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_PKG GRI_S_RISKS_TL_PKG	GRI_S_RISKS_TL_INTR
112	GRC_RISKS_UDA_TL	GRI_S_RISKS_UDA_TL	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_PKG GRI_S_RISKS_UDA_TL_PKG	GRI_S_RISKS_UDA_TL_INTR
113	GRC_RISKS_UDA_B	GRI_S_RISKS_UDA_B	GRI_S_RISKS_ALL_PKG GRI_S_RISKS_PKG GRI_S_RISKS_UDA_B_PKG	GRI_S_RISKS_UDA_B_INTR

GRCI 3.0.1 - EGRCM 8.0.1 Data Lineage DIMENSIONS Table

The following tables illustrate lineage of **Dimensions** used in GRCI. It contains the EGRCM source table name that loads the GRCI **dimensions**, the ODI scripts file name, and the file that contains the load procedure.

All of these packages are part of **GRI_MASTER_EGRC_PKG** and **GRI_DIMENSIONS_EGRC_PKG**.

NO	Source Table	Target Table	Package Lineage	Interface Name
1	GRI_S_EGRC_USERS	GRCD_USERS	GRCD_USERS_MAIN_EGRC_PKG GRCD_USERS_EGRC_PKG	GRCD_USERS_EGRC_INTR
2	GRI_S_EGRC_USERS	GRCD_USERS_TL	GRCD_USERS_MAIN_EGRC_PKG GRCD_USERS_TL_EGRC_PKG	GRCD_USERS_TL_EGRC_INTR
3	GRI_S_ASSESSMENTS_B	GRI_D_ASSESSMENTS_B	GRI_D_ASSESSMENTS_PKG GRI_D_ASSESSMENTS_B_PKG	GRI_D_ASSESSMENTS_B_INTR
4	GRI_S_ASSESSMENTS_TL	GRI_D_ASSESSMENTS_TL	GRI_D_ASSESSMENTS_PKG GRI_D_ASSESSMENTS_TL_PKG	GRI_D_ASSESSMENTS_TL_INTR
5	GRI_S_COMPONENTS_B	GRI_D_COMPONENTS_B	GRI_D_COMPONENTS_PKG GRI_D_COMPONENTS_B_PKG	GRI_D_COMPONENTS_B_INTR
6	GRI_S_COMPONENTS_TL	GRI_D_COMPONENTS_TL	GRI_D_COMPONENTS_PKG GRI_D_COMPONENTS_TL_PKG	GRI_D_COMPONENTS_TL_INTR
7	GRI_S_COMPONENTS_UDA_B	GRI_D_COMPONENTS_UDA_B	GRI_D_COMPONENTS_PKG GRI_D_COMPONENTS_UDA_B_PKG	GRI_D_COMPONENTS_UDA_B_INTR
8	GRI_S_COMPONENTS_UDA_TL	GRI_D_COMPONENTS_UDA_TL	GRI_D_COMPONENTS_PKG GRI_D_COMPONENTS_UDA_TL_PKG	GRI_D_COMPONENTS_UDA_TL_INTR
9	GRI_S_CONTROLS_UDA_B	GRI_D_CONTROLS_UDA_B	GRI_D_CONTROLS_ALL_PKG GRI_D_CONTROLS_PKG GRI_D_CONTROLS_UDA_B_PKG	GRI_D_CONTROLS_UDA_B_INTR
10	GRI_S_CONTROLS_B	GRI_D_CONTROLS_B	GRI_D_CONTROLS_ALL_PKG GRI_D_CONTROLS_PKG GRI_D_CONTROLS_B_PKG	GRI_D_CONTROLS_B_INTR
11	GRI_S_CONTROLS_UDA_TL	GRI_D_CONTROLS_UDA_TL	GRI_D_CONTROLS_ALL_PKG GRI_D_CONTROLS_PKG GRI_D_CONTROLS_UDA_TL_PKG	GRI_D_CONTROLS_UDA_TL_INTR
12	GRI_S_CONTROLS_TL	GRI_D_CONTROLS_TL	GRI_D_CONTROLS_ALL_PKG GRI_D_CONTROLS_PKG GRI_D_CONTROLS_TL_PKG	GRI_D_CONTROLS_TL_INTR
13	GRI_S_CTRL_TEST_INSTRS_UDA_B	GRI_D_CTRL_TEST_INSTRS_UDA_B	GRI_D_CONTROLS_ALL_PKG GRI_D_CTRL_TEST_INSTRS_PKG GRI_D_CTRL_TEST_INSTRS_UDA_B_PKG	GRI_D_CTRL_TEST_INSTRS_UDA_B_INTR
14	GRI_S_CTRL_TEST_INSTRS_UDA_TL	GRI_D_CTRL_TEST_INSTRS_UDA_TL	GRI_D_CONTROLS_ALL_PKG GRI_D_CTRL_TEST_INSTRS_PKG GRI_D_CTRL_TEST_INSTRS_UDA_TL_PKG	GRI_D_CTRL_TEST_INSTRS_UDA_TL_INTR
15	GRI_S_CTRL_TEST_INSTRS_TL	GRI_D_CTRL_TEST_INSTRS_TL	GRI_D_CONTROLS_ALL_PKG GRI_D_CTRL_TEST_INSTRS_PKG GRI_D_CTRL_TEST_INSTRS_TL_PKG	GRI_D_CTRL_TEST_INSTRS_TL_INTR
16	GRI_S_CTRL_TEST_INSTRS_B	GRI_D_CTRL_TEST_INSTRS_B	GRI_D_CONTROLS_ALL_PKG GRI_D_CTRL_TEST_INSTRS_PKG GRI_D_CTRL_TEST_INSTRS_B_PKG	GRI_D_CTRL_TEST_INSTRS_B_INTR
17	GRI_S_CTRL_TEST_PLANS_UDA_B	GRI_D_CTRL_TEST_PLANS_UDA_B	GRI_D_CONTROLS_ALL_PKG GRI_D_CTRL_TEST_PLANS_PKG GRI_D_CTRL_TEST_PLANS_UDA_B_PKG	GRI_D_CTRL_TEST_PLANS_UDA_B_INTR
18	GRI_S_CTRL_TEST_PLANS_TL	GRI_D_CTRL_TEST_PLANS_TL	GRI_D_CONTROLS_ALL_PKG GRI_D_CTRL_TEST_PLANS_PKG GRI_D_CTRL_TEST_PLANS_TL_PKG	GRI_D_CTRL_TEST_PLANS_TL_INTR
19	GRI_S_CTRL_TEST_PLANS_B	GRI_D_CTRL_TEST_PLANS_B	GRI_D_CONTROLS_ALL_PKG GRI_D_CTRL_TEST_PLANS_PKG GRI_D_CTRL_TEST_PLANS_B_PKG	GRI_D_CTRL_TEST_PLANS_B_INTR
20	GRI_S_CTRL_TEST_PLANS_UDA_TL	GRI_D_CTRL_TEST_PLANS_UDA_TL	GRI_D_CONTROLS_ALL_PKG GRI_D_CTRL_TEST_PLANS_PKG GRI_D_CTRL_TEST_PLANS_UDA_TL_PKG	GRI_D_CTRL_TEST_PLANS_UDA_TL
21	GRI_S_CTRL_TEST_STEPS_B	GRI_D_CTRL_TEST_STEPS_B	GRI_D_CONTROLS_ALL_PKG GRI_D_CTRL_TEST_STEPS_PKG GRI_D_CTRL_TEST_STEPS_B_PKG	GRI_D_CTRL_TEST_STEPS_B_INTR
22	GRI_S_CTRL_TEST_STEPS_TL	GRI_D_CTRL_TEST_STEPS_TL	GRI_D_CONTROLS_ALL_PKG GRI_D_CTRL_TEST_STEPS_PKG GRI_D_CTRL_TEST_STEPS_TL_PKG	GRI_D_CTRL_TEST_STEPS_TL_INTR
23	GRI_S_ISSUES_B	GRI_D_ISSUES_B	GRI_D_ISSUES_PKG GRI_D_ISSUES_B_PKG	GRI_D_ISSUES_B_INTR
24	GRI_S_ISSUES_TL GRI_D_ISSUES_B GRI_S_OBJECT_TYPES_TL GRI_S_OBJECT_CLASSES GRI_A_LOOKUPS_TL GRI_D_CURRENCIES_B	GRI_D_ISSUES_TL	GRI_D_ISSUES_PKG GRI_D_ISSUES_TL_PKG	GRI_D_ISSUES_TL_INTR
25	GRI_S_ISSUES_UDA_B GRI_D_ISSUES_B	GRI_D_ISSUES_UDA_B	GRI_D_ISSUES_PKG GRI_D_ISSUES_UDA_B_PKG	GRI_D_ISSUES_UDA_B_INTR
26	GRI_S_ISSUES_UDA_TL GRI_D_ISSUES_B	GRI_D_ISSUES_UDA_TL	GRI_D_ISSUES_PKG GRI_D_ISSUES_UDA_TL_PKG	GRI_D_ISSUES_UDA_TL_INTR
27	GRI_S_OBJECT_CLASSES_B	GRI_D_OBJECT_CLASSES_B	GRI_D_OBJECT_CLASSES_PKG GRI_D_OBJECT_CLASSES_B_PKG	GRI_D_OBJECT_CLASSES_B_INTR
28	GRI_S_OBJECT_CLASSES_TL	GRI_D_OBJECT_CLASSES_TL	GRI_D_OBJECT_CLASSES_PKG GRI_D_OBJECT_CLASSES_TL_PKG	GRI_D_OBJECT_CLASSES_TL_INTR
29	GRI_S_OBJECT_TYPES_B	GRI_D_OBJECT_TYPES_B	GRI_D_OBJECT_TYPES_PKG GRI_D_OBJECT_TYPES_B_PKG	GRI_D_OBJECT_TYPES_B_INTR
30	GRI_S_OBJECT_TYPES_TL	GRI_D_OBJECT_TYPES_TL	GRI_D_OBJECT_TYPES_PKG GRI_D_OBJECT_TYPES_TL_PKG	GRI_D_OBJECT_TYPES_TL_INTR
31	GRI_S_PERSP_ITEMS_B	GRI_D_PERSP_ITEMS_B	GRI_D_PRERSPECTIVES_PKG GRI_D_PRERSP_ITEMS_PKG GRI_D_PERSP_ITEMS_B_PKG	GRI_D_PERSP_ITEMS_B_INTR
32	GRI_S_PERSP_ITEMS_UDA_B	GRI_D_PERSP_ITEMS_UDA_B	GRI_D_PRERSPECTIVES_PKG GRI_D_PRERSP_ITEMS_PKG GRI_D_PERSP_ITEMS_UDA_B_PKG	GRI_D_PERSP_ITEMS_UDA_B_INTR
33	GRI_S_PERSP_ITEMS_TL	GRI_D_PERSP_ITEMS_TL	GRI_D_PRERSPECTIVES_PKG GRI_D_PRERSP_ITEMS_PKG GRI_D_PERSP_ITEMS_TL_PKG	GRI_D_PERSP_ITEMS_TL_INTR
34	GRI_S_PERSP_ITEMS_UDA_TL	GRI_D_PERSP_ITEMS_UDA_TL	GRI_D_PRERSPECTIVES_PKG GRI_D_PRERSP_ITEMS_PKG GRI_D_PERSP_ITEMS_UDA_TL_PKG	GRI_D_PERSP_ITEMS_UDA_TL_INTR

35	GRI_S_PERSP_TREES_B	GRI_D_PERSP_TREES_B	GRI_D_PRERSPECTIVES_PKG GRI_D_PRERSP_TREES_PKG GRI_D_PERSP_TREES_B_PKG	GRI_D_PERSP_TREES_B_INTR
36	GRI_S_PERSP_TREES_TL	GRI_D_PERSP_TREES_TL	GRI_D_PRERSPECTIVES_PKG GRI_D_PRERSP_TREES_PKG GRI_D_PERSP_TREES_TL_PKG	GRI_D_PERSP_TREES_TL_INTR
37	GRI_S_PERSP_TREES_UDA_B	GRI_D_PERSP_TREES_UDA_B	GRI_D_PRERSPECTIVES_PKG GRI_D_PRERSP_TREES_PKG GRI_D_PERSP_TREES_UDA_B_PKG	GRI_D_PERSP_TREES_UDA_B_INTR
38	GRI_S_PERSP_TREES_UDA_TL	GRI_D_PERSP_TREES_UDA_TL	GRI_D_PRERSPECTIVES_PKG GRI_D_PRERSP_TREES_PKG GRI_D_PERSP_TREES_UDA_TL_PKG	GRI_D_PERSP_TREES_UDA_TL_INTR
39	GRI_S_TREES_B	GRI_D_TREES_B	GRI_D_PRERSPECTIVES_PKG GRI_D_TREES_PKG GRI_D_TREES_B_PKG	GRI_D_TREES_B_INTR
40	GRI_S_TREES_TL	GRI_D_TREES_TL	GRI_D_PRERSPECTIVES_PKG GRI_D_TREES_PKG GRI_D_TREES_TL_PKG	GRI_D_TREES_TL_INTR
41	GRI_S_RISKS_B	GRI_D_RISKS_B	GRI_D_RISKS_PKG GRI_D_RISKS_B_PKG1	GRI_D_RISKS_B_INTR1
42	GRI_S_RISKS_B	GRI_D_RISKS_B	GRI_D_RISKS_PKG GRI_D_RISKS_B_PKG2	GRI_D_RISKS_B_INTR2
43	GRI_S_RISKS_TL	GRI_D_RISKS_TL	GRI_D_RISKS_PKG GRI_D_RISKS_TL_PKG1	GRI_D_RISKS_TL_INTR1
44	GRI_S_RISKS_TL	GRI_D_RISKS_TL	GRI_D_RISKS_PKG GRI_D_RISKS_TL_PKG2	GRI_D_RISKS_TL_INTR2
45	GRI_S_RISKS_UDA_B	GRI_D_RISKS_UDA_B	GRI_D_RISKS_PKG GRI_D_RISKS_UDA_B_PKG	GRI_D_RISKS_UDA_B_INTR
46	GRI_S_RISKS_UDA_TL	GRI_D_RISKS_UDA_TL	GRI_D_RISKS_PKG GRI_D_RISKS_UDA_TL_PKG	GRI_D_RISKS_UDA_TL_INTR
47	GRI_S_EGRC_ROLE	GRI_D_ROLE	GRI_D_ROLE_MAIN_EGRC_PKG GRI_D_ROLE_EGRC_PKG	GRI_D_ROLE_EGRC_INTR
48	GRI_S_EGRC_ROLE	GRI_D_ROLE_TL	GRI_D_ROLE_MAIN_EGRC_PKG GRI_D_ROLE_TL_EGRC_PKG	GRI_D_ROLE_TL_EGRC_INTR
49	GRI_A_ASSOC_PERSP	GRI_D_PERSP_ASSOC_BG	GRI_D_PERSP_ASSOC_BG_PKG	GRI_D_PERSP_ASSOC_BG_INTR
50	GRI_D_RELATEDCONTROL_BG	GRI_D_RELATEDCONTROL_BG	GRI_D_RELATEDCONTROL_BG_PKG	GRI_D_RELATEDCONTROL_BG_INTR
51	GRI_D_ROLE_USER_BG	GRI_D_ROLE_USER_BG	GRI_D_ROLE_USER_BG_EGRC_PKG	GRI_D_ROLE_USER_BG_EGRC_INTR
52	FND_CURRENCIES_B	GRI_D_CURRENCIES_B	GRI_D_CURRENCIES_PKG GRI_D_CURRENCIES_B_PKG	GRI_D_CURRENCIES_B_INTR
53	FND_CURRENCIES_TL	GRI_D_CURRENCIES_TL	GRI_D_CURRENCIES_PKG GRI_D_CURRENCIES_TL_PKG	GRI_D_CURRENCIES_TL_INTR
54	GRC_LANGUAGES	GRI_D_LANGUAGES_B	GRI_D_LANGUAGES_PKG GRI_D_LANGUAGES_B_PKG	GRI_D_LANGUAGES_B_INTR
55	GRC_LANGUAGES_TL	GRI_D_LANGUAGES_TL	GRI_D_LANGUAGES_PKG GRI_D_LANGUAGES_TL_PKG	GRI_D_LANGUAGES_TL_INTR

GRCI 3.0.1. - EGRCM 8.0.1 Data Lineage FACTS Table

The following table illustrates lineage of **Facts** used in GRCI. It contains the EGRCM source table name that loads the GRCI **facts**, the ODI scripts file name, and the file that contains the load procedure..

All of these packages are part of **GRI_MASTER_EGRC_PKG** and **GRI_FACTS_EGRC_PKG**.

NO	Source Table	Target Table	Package Lineage	Interface Name
1	GRI_S_ASMT_OBJECTS GRI_D_ASSESSMENTS_B GRI_S_ASMT_ACTVRSLTS GRI_D_OBJECT_TYPES_B GRI_F_ASSOCIATION_NORM GRI_S_ASMT_CTRL_TPLNRSLTS_V GRI_D_PERSP_ITEMS_B GRI_D_TREES_B	GRI_F_ASSESSMENTS	GRI_F_ASSESSMENTS_PKG	GRI_F_ASSESSMENTS_INTR_1 GRI_F_ASSESSMENTS_INTR_2 GRI_F_ASSESSMENTS_INTR_3 GRI_F_ASSESSMENTS_INTR_4 GRI_F_ASSESSMENTS_INTR_5
2	GRI_S_ISSUES_OBJECTS_BG GRI_D_ISSUES_B GRI_F_ASSOCIATION_NORM GRI_D_PERSP_ITEMS_B GRI_D_ASSESSMENTS_B GRI_D_OBJECT_TYPES_B	GRI_F_ISSUES	GRI_F_ISSUES_PKG GRI_F_ISSUES_PKG_1 GRI_F_ISSUES_PKG GRI_F_ISSUES_PKG_2	GRI_F_ISSUES_INTR_1 GRI_F_ISSUES_INTR_2

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Lineage for AACG 8.5.1

This appendix covers the following topics:

- GRCI 3.0.1 - AACG 8.5.1, Data Lineage DIMENSIONS Table
- GRCI 3.0.1 - AACG 8.5.1, Data Lineage BRIDGES Table
- GRCI 3.0.1 - AACG 8.5.1, Data Lineage FACTS Table

GRCI 3.0.1 - AACG 8.5.1, Data Lineage DIMENSIONS Table

The following table illustrates lineage of **Dimensions** used in GRCI. It contains the AACG 8.5 source table name the loads the GRCI **dimensions**, the sql scripts file name, and the file that contains the load procedure.

It is important to note that all these packages are invoked from GRI_MASTER_PKG.

Common Table Values

The following parameters have common values for all rows in this table.

- **Master Package:** GRI_MASTER_PKG

Dimensions Package : GRI_DIMENSIONS_PKG

NO	Source Table Name(s)	Target Table Name	Package Name	Sub-Package Name	Interface Name
1	GRI_S_INSTANCE	GRI_D_INSTANCE	GRI_INSTANCE_PKG	GRI_D_INSTANCE_PKG	GRI_D_INSTANCE_INTR
2	GRI_S_INSTANCE_TL	GRI_D_INSTANCE_TL	GRI_INSTANCE_PKG	GRI_D_INSTANCE_TL_PKG	GRI_D_INSTANCE_TL_INTR
3	GRI_S_GENERIC_DIM	GRI_D_GENERIC_DIM	GRI_GENERIC_DIM_PKG	GRI_D_GENERIC_DIM_PKG	GRI_D_GENERIC_DIM_INTR
4	GRI_S_GENERIC_DIM_TL GRI_D_GENERIC_DIM	GRI_D_GENERIC_DIM_TL	GRI_GENERIC_DIM_PKG	GRI_D_GENERIC_DIM_TL_PKG	GRI_D_GENERIC_DIM_TL_INTR
5	GRI_S_GENERIC_DIM_VAL GRI_D_GENERIC_DIM	GRI_D_GENERIC_DIM_VAL	GRI_GENERIC_DIM_PKG	GRI_D_GENERIC_DIM_VAL_PKG	GRI_D_GENERIC_DIM_VAL_INTR
6	GRI_S_GENERIC_DIM_VAL_TL GRI_D_GENERIC_DIM GRI_D_GENERIC_DIM_VAL	GRI_D_GENERIC_DIM_VAL_TL	GRI_GENERIC_DIM_PKG	GRI_D_GENERIC_DIM_VAL_TL_PKG	GRI_D_GENERIC_DIM_VAL_TL_INTR
7	GRI_S_AG_USER	GRCD_USERS	GRCD_USER_MAIN_PKG	GRCD_USER_PKG	GRCD_USER_INTR
8	GRI_S_AG_USER_TL GRI_S_AG_USER	GRCD_USERS_TL	GRCD_USER_MAIN_PKG	GRCD_USER_TL_PKG	GRCD_USER_TL_INTR
9	GRI_S_POLICY GRCD_USERS	GRI_D_POLICY	GRI_POLICY_PKG	GRI_D_POLICY_PKG	GRI_D_POLICY_INTR
10	GRI_S_POLICY_TL GRI_D_POLICY	GRI_D_POLICY_TL	GRI_POLICY_PKG	GRI_D_POLICY_TL_PKG	GRI_D_POLICY_TL_INTR
11	GRI_S_ENTITLEMENT GRCD_USERS	GRI_D_ENTITLEMENT	GRI_ENTITLEMENT_PKG	GRI_D_ENTITLEMENT_PKG	GRI_D_ENTITLEMENT_INTR
12	GRI_S_ENTITLEMENT_TL GRI_D_ENTITLEMENT	GRI_D_ENTITLEMENT_TL	GRI_ENTITLEMENT_PKG	GRI_D_ENTITLEMENT_TL_PKG	GRI_D_ENTITLEMENT_TL_INTR
13	GRI_S_ACCESS_POINT	GRI_D_ACCESS_POINT	GRI_ACCESS_POINT_PKG	GRI_D_ACCESS_POINT_PKG	GRI_D_ACCESS_POINT_INTR
14	GRI_S_ACCESS_POINT_TL GRI_D_ACCESS_POINT	GRI_D_ACCESS_POINT_TL	GRI_ACCESS_POINT_PKG	GRI_D_ACCESS_POINT_TL_PKG	GRI_D_ACCESS_POINT_TL_INTR
15	GRI_S_AG_APPS_USER	GRI_D_APPS_USER	GRI_APPS_USER_PKG	GRI_D_APPS_USER_PKG	GRI_D_APPS_USER_INTR
16	GRI_S_AG_APPS_USER_TL GRI_S_AG_APPS_USER	GRI_D_APPS_USER_TL	GRI_APPS_USER_PKG	GRI_D_APPS_USER_TL_PKG	GRI_D_APPS_USER_TL_INTR
17	GRI_S_AG_ROLE	GRI_D_ROLE	GRI_ROLE_PKG	GRI_D_ROLE_PKG	GRI_D_ROLE_INTR
18	GRI_S_AG_ROLE_TL GRI_S_AG_ROLE	GRI_D_ROLE_TL	GRI_ROLE_PKG	GRI_D_ROLE_TL_PKG	GRI_D_ROLE_TL_INTR
19	GRI_S_RUN	GRI_D_RUN	GRI_D_RUN_PKG	GRI_D_RUN_PKG	GRI_D_RUN_INTR
20	GRI_S_EXCLUSION GRI_D_POLICY GRI_D_GENERIC_DIM GRI_A_LOOKUP	GRI_D_EXCLUSION	GRI_EXCLUSION_PKG	GRI_D_EXCLUSION_PKG	GRI_D_EXCLUSION_INTR
21	GRI_S_EXCLUSION_DETAIL GRI_D_GENERIC_DIM_VAL GRI_D_ACCESS_POINT GRI_D_APPS_USER GRI_D_GENERIC_DIM GRI_D_POLICY	GRI_D_EXCLUSION_DETAIL	GRI_EXCLUSION_PKG	GRI_D_EXCLUSION_DETAIL_PKG	GRI_D_EXCLUSION_DETAIL_INTR
22	GRI_S_PATH_EXCLUSION GRI_D_ACCESS_POINT GRI_A_LOOKUP GRI_D_APPS_USER	GRI_D_PATH_EXCLUSION	GRI_EXCLUSION_PKG	GRI_D_PATH_EXCLUSION_PKG	GRI_D_PATH_EXCLUSION_INTR
23	GRI_S_USER_ACCESS_BG GRI_D_ACCESS_POINT GRI_D_APPS_USER	GRI_D_USER_ACCESS_BG	GRI_D_USER_ACCESS_BG_PKG	GRI_D_USER_ACCESS_BG_PKG	GRI_D_USER_ACCESS_BG_INTR

GRCI 3.0.1 - AACG 8.5.1, Data Lineage BRIDGES Table

The following table illustrates lineage of **Bridges** used in GRCI. It contains the AACG 8.5 source table name the loads the GRCI **bridges**, the sql scripts file name, and the file that contains the load procedure.

The following parameters have common values for all rows in this table.

Common Table Values

The following parameters have common values for all rows in this table.

- **Master Package:** GRI_MASTER_PKG

Bridges Table Package : GRI_BRIDGE_TABLES_PKG

NO	Source Table Name(s)	Target Table Name	Package Name	Sub-Package Name	Interface Name
1	GRI_S_AG_ROLE_USER_BG GRI_S_AG_USER GRI_S_AG_ROLE	GRI_D_ROLE_USER_BG	GRI_D_ROLE_USER_BG_PKG	GRI_D_ROLE_USER_BG_PKG	GRI_D_ROLE_USER_BG_INTR
2	GRI_S_POLICY_GENERIC_DIM_BG GRI_D_GENERIC_DIM_VAL GRI_D_GENERIC_DIM GRI_D_POLICY	GRI_D_POLICY_GENERIC_DIM_BG	GRI_D_POLICY_GENERIC_DIM_BG_PKG	GRI_D_POLICY_GENERIC_DIM_BG_PKG	GRI_D_POLICY_GENERIC_DIM_BG_INTR
3	GRI_S_POLICY_DETAIL_BG GRI_D_POLICY GRI_D_ACCESS_POINT GRI_D_ENTITLEMENT	GRI_D_POLICY_DETAIL_BG	GRI_D_POLICY_DETAIL_BG_PKG	GRI_D_POLICY_DETAIL_BG_PKG	GRI_D_POLICY_DETAIL_BG_INTR
4	GRI_S_ENTLMNT_GENERIC_DIM_BG GRI_D_ENTITLEMENT GRI_D_GENERIC_DIM_VAL GRI_D_GENERIC_DIM	GRI_D_ENTLMNT_GENERIC_DIM_BG	GRI_D_ENTLMNT_GENERIC_DIM_BG_PKG	GRI_D_ENTLMNT_GENERIC_DIM_BG_PKG	GRI_D_ENTLMNT_GENERIC_DIM_BG_INTR
5	GRI_S_ENTITLEMENT_AP_BG GRI_D_ENTITLEMENT GRI_D_ACCESS_POINT	GRI_D_ENTITLEMENT_AP_BG	GRI_D_ENTITLEMENT_AP_BG_PKG	GRI_D_ENTITLEMENT_AP_BG_PKG	GRI_D_ENTITLEMENT_AP_BG_INTR

GRCI 3.0.1 - AACG 8.5.1, Data Lineage FACTS Table

The following table contains the GRCI staging table name that loads the GRCI **fact** tables, and the package that loads the target GRCI fact table.

> **Note:** It is important to note that all these packages are invoked from the fact package GRI_FACTS_PKG, which in turn is invoked from GRI_MASTER_PKG.

Common Table Values

The following parameters have common values for all rows in this table.

- **Load Type:** ODI
- **Master Package:** GRI_MASTER_PKG
- **Fact Package** GRI_FACTS_PKG

Facts Package: GRI_FACTS_PKG

NO	Source Table Name(s)	Target Table Name	Error Table Name	Package Name	Interface Name
1	GRI_S_CONFLICTS GRI_D_RUN GRI_D_POLICY GRI_D_GBL_USER GRI_A_LOOKUP	GRI_F_CONFLICTS_T	GRI_E_CONFLICTS_T	GRI_F_CONFLICTS_T_PKG	GRI_F_CONFLICTS_T_INTR
2	GRI_F_CONFLICTS_T GRI_D_POLICY	GRI_D_POLICY_PREV_RUN_BG		GRI_D_POLICY_PREV_RUN_BG_PKG	GRI_D_POLICY_PREV_RUN_BG_INTR
3	GRI_S_CONFLICT_PATH GRI_D_RUN GRI_D_POLICY GRI_D_APPS_USER GRI_D_ACCESS_POINT GRI_D_ENTITLEMENT GRCD_USERS GRI_A_LOOKUP	GRI_F_CONFLICT_PATH_T	GRI_E_CONFLICT_PATH_T	GRI_F_CONFLICT_PATH_T_PKG	GRI_F_CONFLICT_PATH_T_INTR
4	GRI_S_CONFLICT_PATH GRI_D_RUN GRI_D_POLICY GRI_D_POLICY_INSTANCE_V	GRI_F_CONFLICT_PATH_T	GRI_E_CONFLICT_PATH_T	GRI_F_CONFLICT_PATH_T_PKG_2	GRI_F_CONFLICT_PATH_T_INTR_2

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Security Integration between GRCI and EGRCM/AACG (Optional)

This appendix covers the following topics:

- Overview
- Steps for Integration

Overview

Prerequisites

Installation of AACG version 8.5.1, EGRCM version 8.0.1, and GRCI Release 3.0.1 should be installed.

Installed Software

- OBIEE (Oracle Business Intelligence Enterprise Edition) version 10.1.3.3.4 (with OC4J)
- Oracle HTTP Server (Apache 2.0)
- Web server and directory server.
- OAM (Oracle Access Manager)10.1.4.0.1
- WebGate (OAM Web component) 10.1.4.0.1

For installing and setting up software, please refer to the installation and user guides. Web server and directory server must be installed prior to OAM installation, as it is a prerequisite for OAM installation. OAM is installed on some servers, and OBIEE, OHS (Oracle HTTP Server) and WebGate are installed on the client side

Note: Please refer to the Reference section at the end of this document

that lists installation and deployment guides.

Steps for Integration

1. Configuring mod_oc4j for accessing an Application deployed in OC4J

   This step illustrates how to make available an application deployed in OC4J from Oracle HTTP Server using mod_oc4j. This step is essential since OAM integration with OBIEE is not possible if OBIEE is hosted on oc4j.

2. Configuring Access system, Policy and users in OAM

   At least one Access Server must be installed and configured. A policy and Access gate should be created for the resource you want to protect. At least one WebGate must be installed on client side (the web server OBIEE is accessed from mentioned in step 2) and configured to communicate with the Access Server AccessGate function.

3. OBIEE - LDAP authentication

   This step describes the tasks necessary to configure Oracle Business Intelligence to perform user authentication using OAM LDAP Directory.

4. Configuring BI Presentation Services to Use the Impersonator User

   The process of enabling SSO for Oracle Business Intelligence consists of configuring the Oracle BI Presentation Services component to operate in an SSO environment. Oracle BI Presentation Services must first be configured to use the impersonator user so that it can establish a connection to the Oracle BI Server on behalf of the authenticated end user that issued a request to Oracle BI.

5. Drilldown to source system from OBIEE (for AACG)

   The GRI_A_SRC_SYSTEM_INFO table is used to store the source instance URL and component path. The SOURCE_URL column stores URL and policy, confilctpath id component columns store component path for policy and conflictpath respectively. Create an Initialization Block and Dynamic Repository Variable which is used to create the URL for the source system. For every drill to source page, a separate Init Block creation is required.

6. Drill to source system from OBIEE (for EGRCM)

   Make sure Insert statement in the **Important Information** section in *Chapter 2 in Execution Steps of Scripts* have been properly executed to enable drill to EGRCM from GRCI.

Steps for Integration in Detail

The steps below describe in detail the *Steps for Integration* as outlined in the previous

section.

STEP 1

Configuring mod_oc4j for Accessing an Application deployed in OC4J

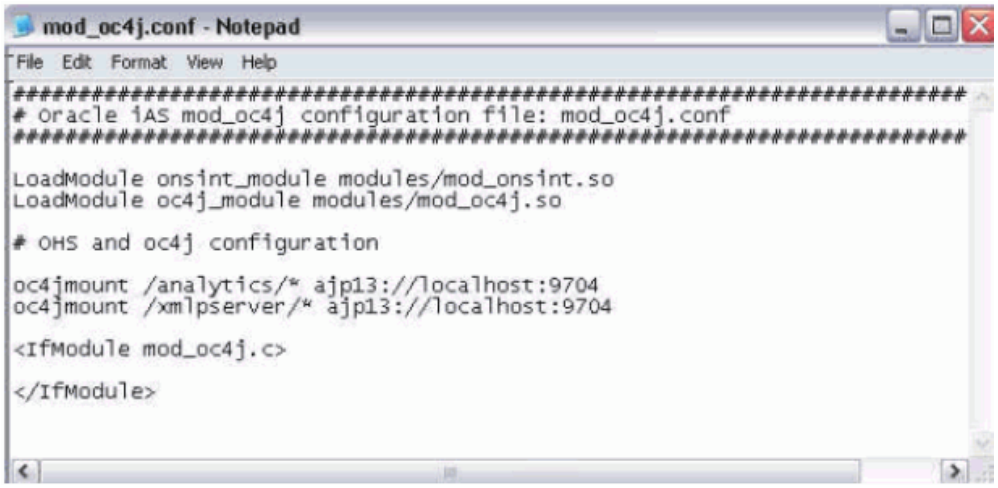
- The directive Oc4jMount is used to make an Application deployed to OC4J accessible through OHS via mod_oc4j. This directive can be included in the file mod_oc4j.conf.

  Update mod_oc4j.conf located in C:\OraHome\ohs\conf directory

  Add the following two lines:

  # OHS and oc4j configuration

  oc4jmount /analytics/* ajp13://localhost:9704



- Then restart OPMN process by running ons.exe from C:\OraHome_3\opmn\bin Communication between OHS and OC4J uses Apache JServ protocol AJP13.

  Update below code in C:\OracleBI\oc4j_bi\j2ee\home\config\default-web-site.xml. protocol="ajp13" also make sure that root is set to analytics as shown in the screen shot:

```
<?xml version="1.0" ?>
- <web-site xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:noNamespaceSchemaLocation="http://xmlns.oracle.com/oracleas/schema/web-site-
    10_0.xsd" protocol="ajp13" port="9704" display-name="OC4J 10g (10.1.3) Default Web Site"
    schema-major-version="10" schema-minor-version="0">
    <default-web-app application="default" name="defaultWebApp" root="/analytics" />
    <web-app application="system" name="dms0" root="/dmsoc4j" />
    <web-app application="system" name="dms0" root="/dms0" />
    <web-app application="system" name="JMXSoapAdapter-web" root="/JMXSoapAdapter" />
    <web-app application="default" name="jmsrouter_web" load-on-startup="true"
      root="/jmsrouter" />
    <web-app application="javasso" name="javasso-web" root="/jsso" />
    <web-app application="ascontrol" name="ascontrol" load-on-startup="true" root="/em" ohs-
      routing="false" />
    <web-app application="analytics" name="analytics" load-on-startup="true" root="/analytics" />
    <web-app application="bioffice" name="bioffice" load-on-startup="true" root="/bioffice" />
    <web-app application="xmlpserver" name="xmlpserver" load-on-startup="true"
      root="/xmlpserver" />
    <access-log path="../log/default-web-access.log" split="day" />
  </web-site>
```

STEP 2

Configuring Access System, Policy and Users in OAM

In access system configuration set up access server, host identifier and access gate.

1. Login into Oracle Access Manager. Go to Access System Configuration -> Access Server Configuration -> Add access server providing name, host, port of the machine where OAM is installed and etc. parameters.

2. Login into Oracle Access Manager. Go to Access System Configuration -> in the side navigation pane; click Host Identifiers -> Add ->Specify name, description and all possible identifiers for this host. As host can be known by multiple names, Host Identifiers feature is used to enter the official name for the host, and every other name by which the host can be addressed by users. Here we need to add the host identifier of the OHS from which the OBIEE will be accessed as described in the step 1.

3. Create Access Gate

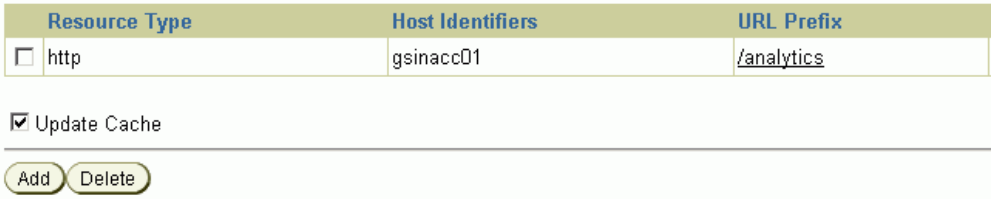
   On Access System Configuration page select Add New Access Gate. Provide name, host and port of the machine where OBIEE for GRCI is installed and other parameters. Here we need to provide the url of the OHS mentioned in the step 1 along with its respective details like port number etc.

Login into Oracle Access Manager. Go to Policy Manager -> Create Policy Domain -> Create a policy for URL of the resource. For each policy you create, you can assign a specific authentication scheme (Basic Over LDAP), authentication rule, authorization expression, and auditing rule.

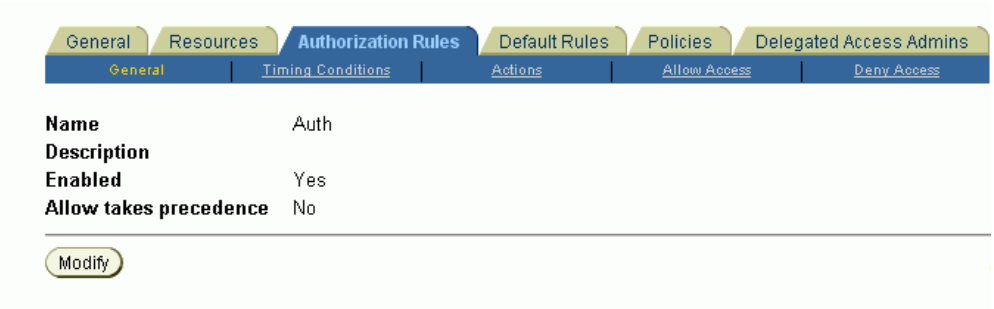
Below is the list of the steps that users follow to secure the OBIEE url:

- Add a resource to the Policy (OBIEE url, hosted/accessed from the OHS as specified

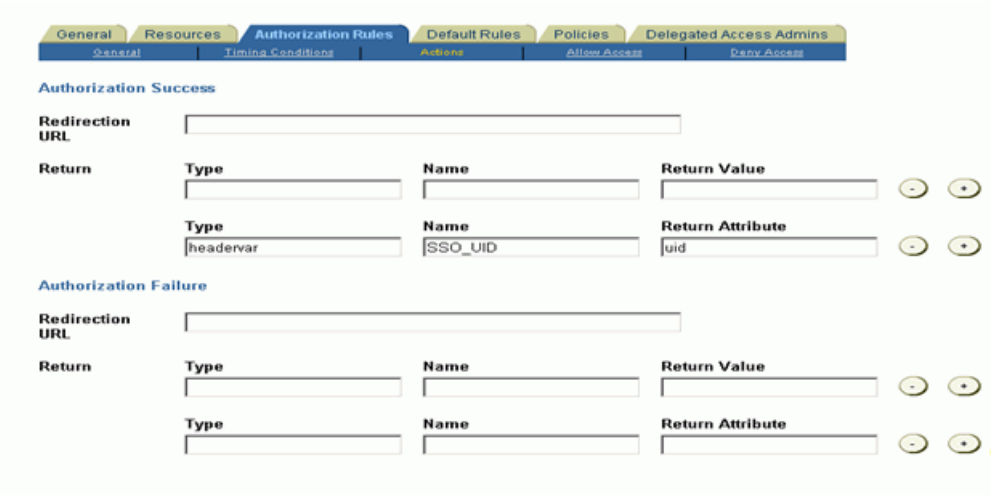
in step 1):



- Add a authorization rule to the policy as specified below:

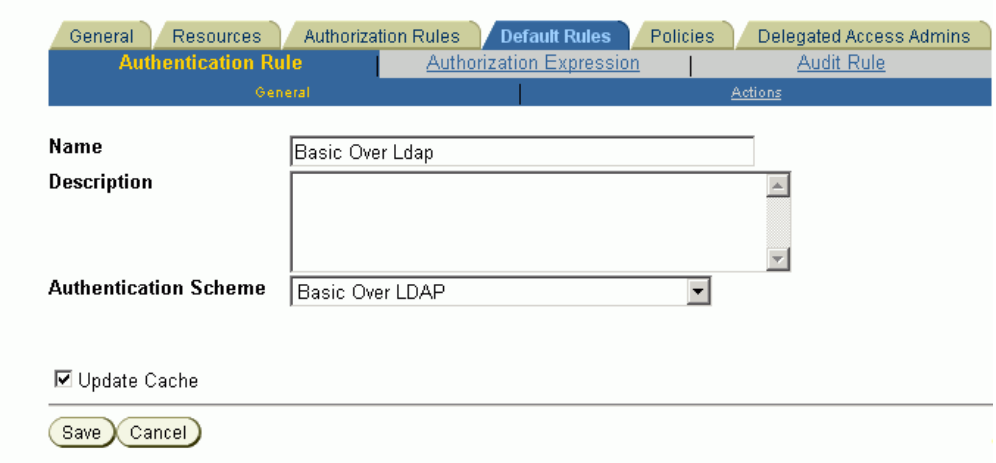


- In the Authorization Rules -> Actions specify the details as:

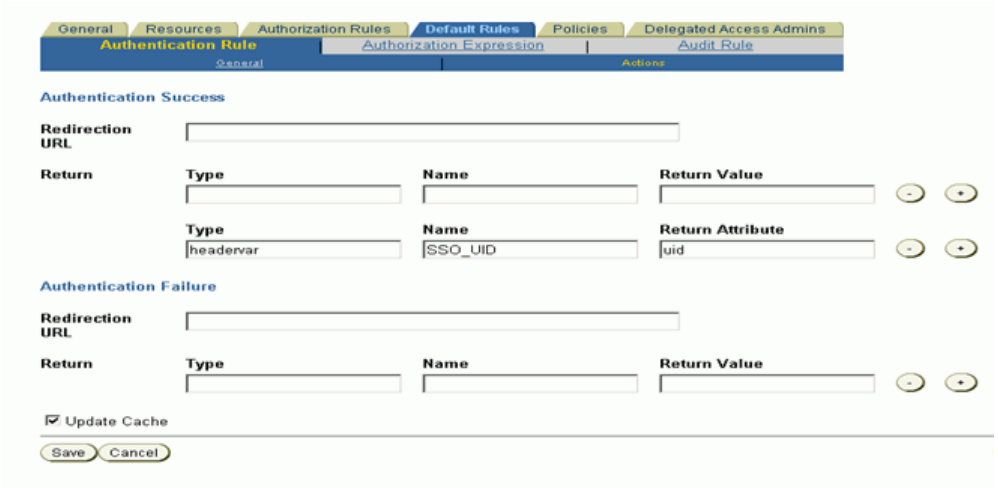


- In the Authorization Rules -> Allow Access add the list of the users for whom you want to enable the OBIEE login.

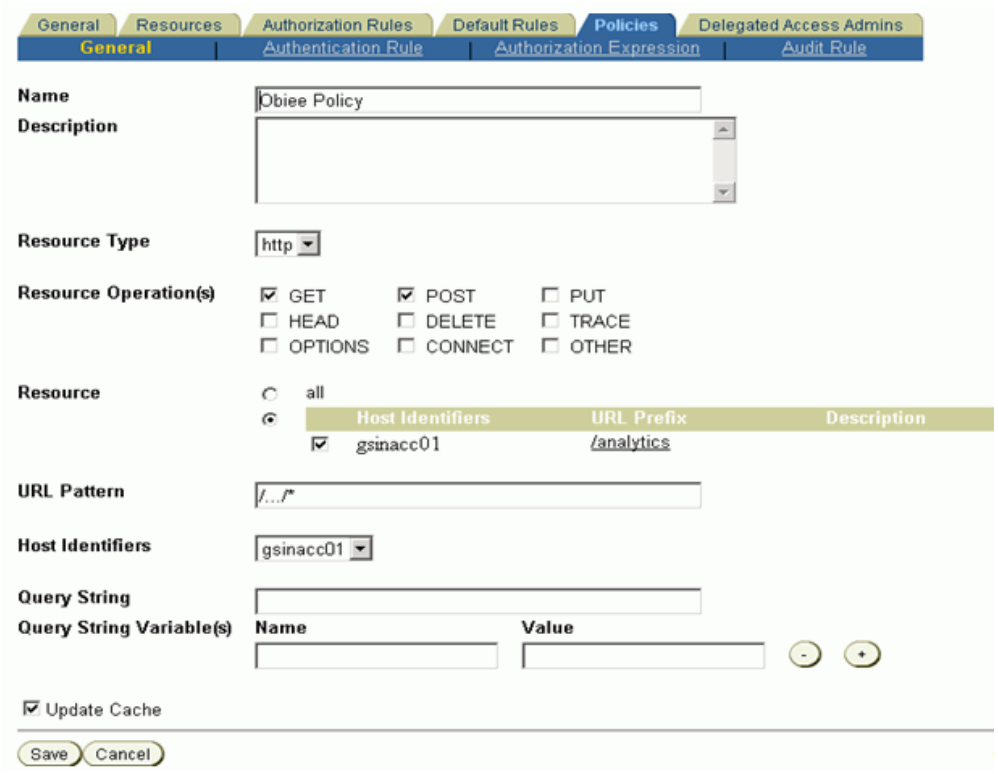
- In the Authorization Rules-> Deny Access, if you want to deny access to any user.
- In the Policy -> Default Rules -> Authentication Rule create a Basic Over Ldap rule as:



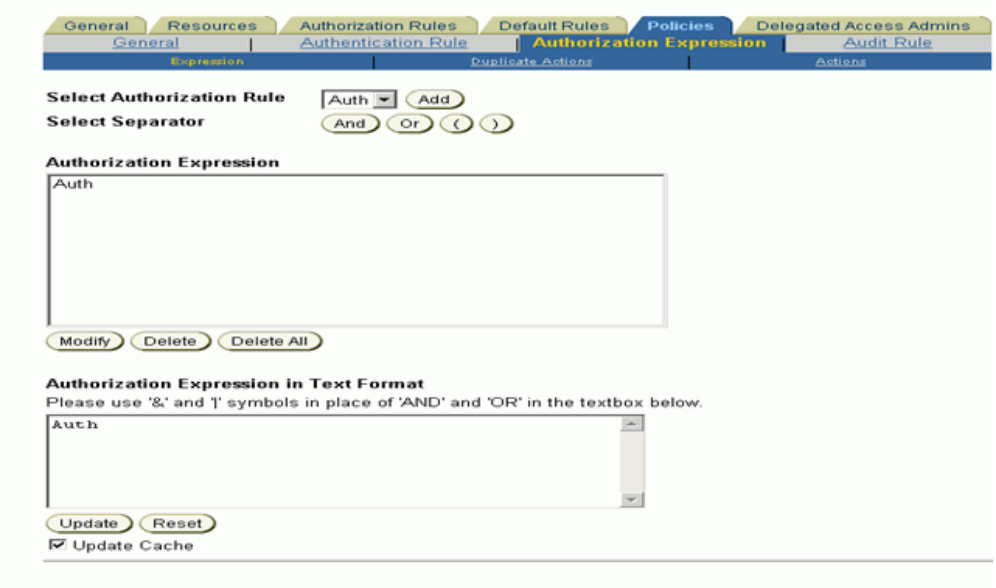
- In the Default Rules -> Authentication Rule -> Actions specify the details as:



- In the Policy -> Policies tab add a policy with the details as:



- In the Policy -> Policies tab -> Authorization Expression, specify the authorization expression as:



- Login into Oracle Access Manager. Go to Identity System Console -> User Manager Tab -> Create User Identity tab and create a new user.

  When the credentials are asked to login into GRCI, this username and password should be entered. This will allow drill down to AACG and EGRCM without having to log on.

- Below are the steps that describes flow and involvement of above OAM component:

  1. User try to access web resource (http) on OHS which is protected by Oracle Access Manager, request is received by WebGate

  2. Webgate request for policy from Access Server to check if resource (URL) is protected or not

  3. If resource/URL is not protected page is returned to user. If resource/URL is protected, WebGate ask user to authenticate

  4. Credentials entered by user are validated against LDAP directory via access system.

  5. After successful authentication, Oracle Access Manager Single Sign-On cookie is sent to user browser.

     Note: Refer to Oracle® Access Manager Access Administration Guide(10.1.4.2.0) for more details

STEP 3

OBIEE - LDAP Authentication

Create a new LDAP Server entry in the repository (rpd) for LDAP Directory where OAM users get stored using the following procedure.

a) To modify the repository for user authentication in LDAP Directory

- Open the rpd in the BI Administration Tool and select Manage > Security from the application menu.
- From the Security Manager menu, choose Action > New > LDAP Server.
- In the General tab, enter values for fields as shown in the following example:

  Hostname = <LDAP Directory hostname>

  Port number = < LDAP Directory port>

  LDAP version = LDAP 3

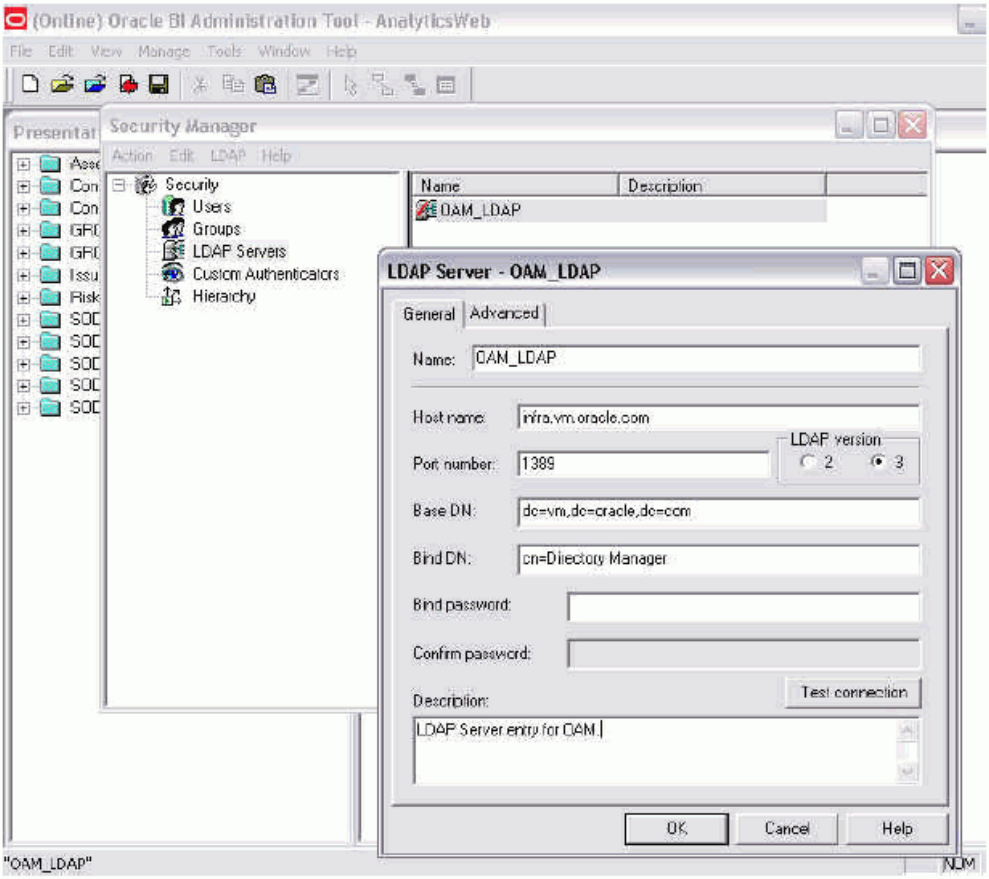
  Base DN = < Base distinguished name (DN)>

  Bind DN = < Distinguished name required to bind to LDAP Directory >

  Bind password = < Password of bind DN>

  where the Base DN field identifies the starting point of the authentication search.

  If the Bind DN and Bind password entries are blank, anonymous binding is assumed.



- Return to the General tab and click on the Test Connection button to ensure the connection to iplanet Directory server is successful.

b) Configuring the Initialization Block Used for User Authentication

- One initialization block is required for user authentication and to configure it to use LDAP authentication. It will set the value of USER system session variable.
- Create new init block
- In the Session Variable Initialization Block window, click on the "Edit Data Source" button. Select LDAP as the Data Source Type from the drop-down and select the LDAP Server that was created in above step.
- Select the Edit Data Target button. In the System Session Variable window, enter "USER" in the Name field. Click OK. Click OK when asked to confirm if you want to use this name.
- Do not enable the 'Required for Authentication' check box. Test the authentication by clicking on the Test button in the Session Variable Initialization Block window.

c) Configuring the Initialization Block Used to set the GROUP for the User

> **Note:** OBIEE will be not able to recognize nor use any LDAP defined user-to-group relationships until 11g (or later).

Users are typically assigned to groups via an OBIEE repository session init block using an external source (E.g. a database table) that contains the user-to-group association. This init block sets the GROUP session variable.

- Shutdown Oracle BI Server and Oracle BI Presentation Server services
- Launch Oracle BI Administration tool. Open the rpd file in offline mode
- From the Manage menu, click on Variables to launch the Variable Manager
- From the menu click on Action, Select New and choose Session->Initialization Block to create an initialization block
- In the Data Source section, click on Edit Data Source. From the Data Source Type drop-down box and choose Database. In the 'Default Initialization String' window type the following SQL:

  SELECT SUBSTR (SYS_CONNECT_BY_PATH (ROLE NAME, ';') ,2) ROLE_NAME

  FROM (SELECT ROLE_NAME, A.USER_ID,COUNT(*) OVER (PARTITION BY A.USER_ID) CNT, ROW_NUMBER ()

  OVER (PARTITION BY A.USER_ID ORDER BY ROLE_NAME) SEQ

  FROM GRCD USERS_VL A, GRI_D_ROLE_USER_BG B, GRI_D_ROLE_TL C

  WHERE A.USER_NAME=':USER'

  AND A.GRCD_USER_SID = B.GRCD_USER_SID

  AND A.SRC_SYS_ID = B.SRC_SYS_ID

  AND B.ROLE_SID = C.ROLE_SID

  AND B.SRC_SYS_ID = C.SRC_SYS_ID

  AND C.LANGUAGE in ('US'', 'en'')

  AND A.LANGUAGE in ('US'', 'en''))A

  WHERE A.CNT=A. SEQ

  START WITH SEQ=1 CONNECT BY PRIOR SEQ+1=SEQ AND PRIOR A.USER_ID=A.USER_ID

- The Connection Click on Browse to launch the Select Connection Pool window. Click on the appropriate Connection Pool and click Select, then click OK.

- In the Variable Target section, click on Edit Data Target. Click New to launch the Session Variable window. In the name box enter GROUP. Click OK. Accept the 'special purpose' prompt by clicking on Yes.

- Do not enable the 'Required for Authentiction' check box. Test the authentication by clicking on the Test button in the Session Variable Initialization Block window.

- Save the initialization block.

d) Creation of Repository Group and Presentation Catalog Group

Create a repository group and a presentation catalog group (the same as group that was assigned in the prior step). For example, if the GROUP has a variable set to Apps Administrator, then the user creates a repository group, and a presentation catalog group as "Apps Administrator". This step is needed in order to see the group in the rpd and the webcat to further secure presentation layer catalogs, dashboards, folders and answers. A dynamic assignment is done in the prior steps only.

> **Note:** Creation of a group should be done by logging in as an Administrator to rpd and webcat. This should be done on a different machine that does not have OAM integration on it. With OAM integration only, OAM users can log into presentation services even if they don't have Administrator user privileges.

- Creation of Repository Group

  Open the GRCI rpd in the OBIEE Administration tool and logon with admin privileges

  Click on Manage->Security from the menu

  On the Security Manager window, select Groups in the left pane and click on Action->New->Group. Enter a group name that gets assigned to the GROUP session variable in the prior step.

- Creation of a Presentation Catalog Group

  Connect to OBIEE Presentation server and log on as Administrator

  Click on Settings->Administration, select 'Manage Presentation Catalog Groups and Users', and click on 'Create new catalog group'

  Enter the group name that gets assigned to the GROUP session variable in the prior step, Dashboard Name and Dashboard Builder columns of the Create Catalog Group screen

  > **Note:** Check Oracle® Business Intelligence Enterprise Edition User Guide for securing presentation layer catalogs, dashboards, folders and answers.

STEP 4

Configuring BI Presentation Services to Use the Impersonator User

The steps to configure BI Presentation Services are:

a) Creating the Oracle BI Server Impersonator User

- Open the BI Server repository file (.rpd) using BI Administration Tool.
- Select Manage > Security to display the Security Manager.
- Select Action > New > User to open the User dialog box.

  Enter a name and password for this user.

  For example, Name = Impersonator and Password = secret.
- Click OK to create the user.

  Make this user a member of the group Administrators.
- Double-click on the icon for the user that was created.
- In the Group Membership portion of the dialog box, check the Administrators group.

b) Creating Adding Impersonator User Credentials to Oracle BI Presentation Services Credential Store

1. Open a command prompt window or command shell on the machine where BI Presentation Services has been installed.
2. Navigate to the directory OracleBI/web/bin.
3. Execute the CryptoTools utility to add the impersonator user credentials to the BI Presentation Services Credential Store:

   cryptotools credstore -add -infile OracleBIData/web/config/credentialstore.xml
4. Supply values for the prompted parameters, as shown:

```
C:\OracleBI\web\bin>cryptotools credstore -add -
infile C:/OracleBIData/web/config/credentialstore.xml
>Credential Alias: impersonation
>Credential "impersonation" already exists. Do you want to overwrite it? y/n (y) : y
>Username: Impersonator
>Password: password
>Do you want to encrypt the password? y/n (y): y
>Passphrase for encryption: password123
>Do you want to write the passphrase to the xml? y/n (n) : n
>File "C:/OracleBIData/web/config/credentialstore.xml" exists. Do you want to overwrite it? y/n (y)
: y
```

c) Configuring Oracle BI Presentation Services to Identify Credential Store and Decryption Passphrase

1. Locate the node within the instanceconfig.xml file.

2. Specify the attribute values as shown in the following example.

   If the node does not exist, create this element with sub-elements and attributes with attribute values given in the following example.

```
<WebConfig>
<ServerInstance>
<!-- other settings ... -->
<CredentialStore>
<CredentialStorage type="file" path="<path to credentialstore.xml>" passphrase="<passphrase>"/>
<!-- other settings ... -->
</CredentialStore>
<!-- other settings ... -->
</ServerInstance>
</WebConfig>
```

After modification, CredentialStore node in instanceconfig.xml file looks as below:

```
<?xml version="1.0"?>
<WebConfig>
<ServerInstance>
<!-- other settings ... -->
<CredentialStore>
<CredentialStorage type="file" path="C:/OracleBIData/web/config/ credentialstore.xml" passphrase="password123"/>
<!-- other settings ... -->
</CredentialStore>
<!-- other settings ... -->
</ServerInstance>
</WebConfig>
```

d) Configuring BI Presentation Services to Operate in the OAM Environment

1. Open instance config.xml for editing. Locate the <Auth> element. If this does not exist, create this element, sub-elements and parameters as shown in the following example:

```
<!-- other settings ... -->
<Auth>
<SSO enabled="true">
<ParamList>
<!-- IMPERSONATE param is used to get the authenticated user's username and is
required
-->
<Param name="IMPERSONATE" source="httpHeader" nameInSource="SSO_UID" />
</ParamList>
</SSO>
</Auth>
```

2. Secure the machines that are permitted to communicate with BI Presentation Services directly.

   This can be done by setting the Listener\Firewall node in instanceconfig.xml with the list of HTTP Server or servlet container IP addresses. For example:

```
<Listener>
<Firewall>
<Allow address="127.0.0.1"/>
<Allow address="10.111.111.111"/>
</Firewall>
<!-- other settings ... -->
</Listener>
```

STEP 5

Drilldown to source system from OBIEE (for AACG)

- GRI_A_SRC_SYSTEM_INFO table is used to store the source instance URL and component path. SOURCE_URL column stores URL and policy, confilctpath id store component path for policy and conflict path respectively. Refer to AACG documentation for populating data for these three columns.

- Create an Initialization Block and Dynamic Repository Variable, which are used to create the URL for the source system. For every drill to page, a separate Init Block creation is required.

1. In OBIEE Admin tool open the rpd. Go to Manage->Variables->Action->New->Repository Initialization Block.

2. In the Repository Variable Init Block window put init block name.

3. Click on edit data source write a query to get URL and component from GRI_A_SRC_SYSTEM_INFO table. For conflictpathId drill down the query would look like the following:

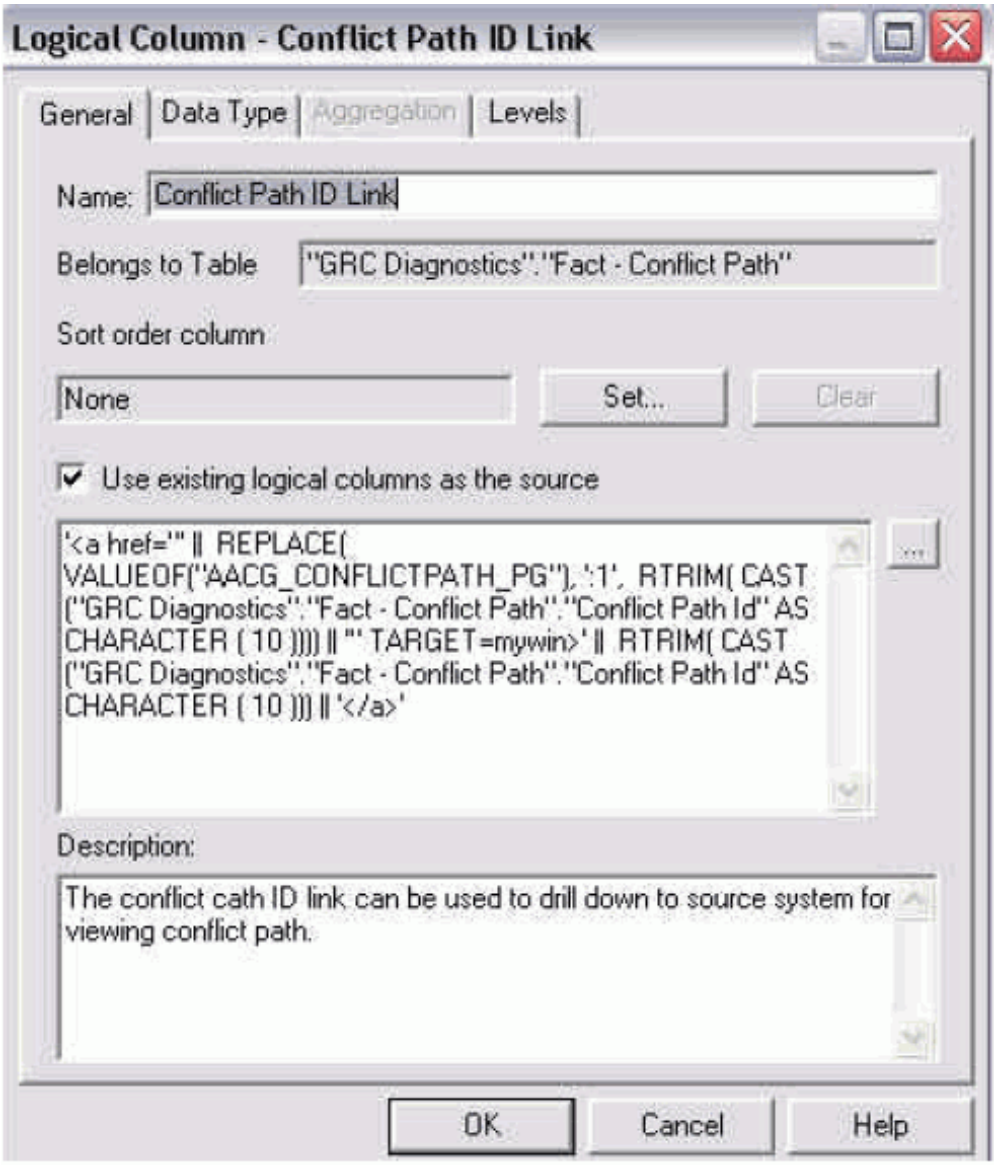
```
SELECT SOURCE_URL || CONFLICT_COMPONENT
FROM GRI_A_SRC_SYSTEM_INFO
WHERE SRC_SYS_ID = 'AG80'
```

- Assign a connection pool for this init block. Test the authentication by clicking on the Test button in the Repository Variable Initialization Block window.

- Select Edit Data Target button. Select New in Repository Variable Init Block Variable Window. Create a Dynamic Repository variable. Similarly, an Init block for policy Id should be created.

  Similarly, Init block for policyID should be created.

- Create a logical column in the business layer of the OBIEE admin tool and select the check box for Use existing logical columns as source. Specify the expression from which the logical column should be derived. Replace the :1 with the dynamic field value, for multiple parameters use nested REPLACE functions. For example, the expression for logical column for conflictpathId drill would look like the following:



- Create an answer with the logical column as created above and change the data format as HTML) and run the report.
- "Save system-wide column formats" and "Save Content with HTML Markup" privilege should be given to Everyone, which is by default given to Presentation Server Administrators.

STEP 6

Drill to Source System from OBIEE (for EGRCM)

Make sure Insert statement in the Important Information section of Chapter 2 in Execution Steps of Scripts have been properly executed to enable drill to EGRCM from

GRCI.

References

1. Oracle Access Manager Installation Guide 10g (10.1.4.0.1)
2. Oracle Access Manager Identity and Common Administration Guide10g (10.1.4.0.1)
3. Oracle Access Manager Access Administration Guide 10g (10.1.4.0.1)
4. Oracle Business Intelligence Infrastructure Installation and Configuration Guide
5. Oracle Business Intelligence Enterprise Edition User Guide

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