Oracle® Data Relationship Management
Oracle® Data Relationship Steward
Oracle® Data Relationship Management for Oracle Hyperion Enterprise Planning Suite
Oracle® Data Relationship Management for Oracle Hyperion Financial Close Suite
Oracle® Data Relationship Management Read Only Access
Oracle® Data Relationship Governance

Oracle Business Intelligence Applications Integration Guide
Release 11.1.2.4.321
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You can use Oracle Data Relationship Management to manage custom hierarchies for the Internal Organization dimension in Oracle Business Intelligence Applications. Dimension members are imported from BI Applications into Data Relationship Management and users define hierarchies using the Data Relationship Management web client. The new hierarchies maintained in Data Relationship Management can be exported and loaded into the BI Applications warehouse.

This integration between Data Relationship Management and BI Applications is available for BI Applications Release 11.1.1.10.1.

Data Relationship Management integrates with BI Applications using staging tables in the BI Applications Data Warehouse. To export data from BI Applications to Data Relationship Management, the BI Applications system writes data to a set of tables which are then imported into Data Relationship Management.

To export data from Data Relationship Management to BI Applications, data from Data Relationship Management is exported to a table which is then loaded into the BI Applications system.

Data Relationship Management writes data to this table for export:

W_DRM_HIER_OUT_TMP—Data Relationship Management Export Output Table

**Application Template Metadata**

The Data Relationship Management metadata used to support the integration is available in the BI Applications application template installed with Data Relationship Management (biapps-app-template.xml) and is listed below.
## Property Definitions (Full Qualified Name (Label))

<table>
<thead>
<tr>
<th>Property Definition</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIAPPS.BI_HIERARCHY_GROUP (BIAPPS Hierarchy Group)</td>
<td>Hierarchy Group Property used to organize BI Applications hierarchies</td>
</tr>
<tr>
<td>BIAPPS.BI_NODE_TYPE (BI Node Type)</td>
<td>Derived Local Node Property to calculate node type for BI Applications nodes</td>
</tr>
<tr>
<td>BIAPPS.DATASOURCE_NUM_ID (Data Source Number)</td>
<td>Global Node Property to hold the data source number for BI Applications sourced nodes</td>
</tr>
<tr>
<td>BIAPPS.DRM_HIER_FLG (DRM Hierarchy Flag)</td>
<td>Hierarchy Property to indicate a hierarchy from Data Relationship Management</td>
</tr>
<tr>
<td>BIAPPS.DRM_NODE_FLG (DRM Node Flag)</td>
<td>Global Node Property to indicate a node from Data Relationship Management</td>
</tr>
<tr>
<td>BIAPPS.SRC_HIERARCHY_NAME (Source Hierarchy Name)</td>
<td>Hierarchy Property to hold the hierarchy name for BI Applications sourced hierarchies</td>
</tr>
<tr>
<td>BIAPPS.SRC_NODE (Src Node Integration ID)</td>
<td>Global Node Property to hold the source node code for BI Applications sourced nodes</td>
</tr>
<tr>
<td>BIAPPS.SRC_PARENT_NODE (Src Parent Node Integration ID)</td>
<td>Local Derived Property to return the source node code property from the parent node</td>
</tr>
</tbody>
</table>

### Property Categories

<table>
<thead>
<tr>
<th>Property Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIAPPS Warehouse</td>
<td>Category defined to group the BI Applications properties</td>
</tr>
</tbody>
</table>

### Validations

<table>
<thead>
<tr>
<th>Validations</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIAPPS.DATA_SOURCE_ROLL_ UP</td>
<td>Validation to ensure that a BI Applications sourced node does not roll up to a different data source</td>
</tr>
<tr>
<td>BIAPPS.DRM_NODE_CHECK</td>
<td>Data Source Number and Source Node Code must be null if this is a not a BI Applications node</td>
</tr>
<tr>
<td>BIAPPS.NAME_LENGTH</td>
<td>The Node name cannot exceed 80 characters for Data Relationship Management node being used by BI Applications</td>
</tr>
<tr>
<td>BIAPPS.SOURCE_NODE_CHECK</td>
<td>Data Source Number and Source Node Code are required if this is a BI Applications node</td>
</tr>
</tbody>
</table>

### Node Types

<table>
<thead>
<tr>
<th>Node Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIAPPS</td>
<td>Node type for BI Applications nodes</td>
</tr>
</tbody>
</table>
Hierarchy Groups

<table>
<thead>
<tr>
<th>Hierarchy Group</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTORG_DIM</td>
<td>Hierarchy Group that contains Internal Organization Hierarchies for BI Applications</td>
</tr>
<tr>
<td>NON_BIAPPS_DIM</td>
<td>Hierarchy Group that contains hierarchies that are not marked for integration with BI Applications</td>
</tr>
</tbody>
</table>

Imports

<table>
<thead>
<tr>
<th>Import</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIAPPS Node and Hierarchy data Import</td>
<td>Import for loading data from BI Applications into Data Relationship Management</td>
</tr>
</tbody>
</table>

Exports

<table>
<thead>
<tr>
<th>Export</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIAPPS – DRM Hierarchy export</td>
<td>Export to write data to staging table for BI Applications</td>
</tr>
</tbody>
</table>

System Preferences

<table>
<thead>
<tr>
<th>System Preference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvDescr</td>
<td>Invalid description characters (empty, all characters allowed)</td>
</tr>
<tr>
<td>InvName</td>
<td>Invalid name characters (set to : !@#$%^&amp;*()+=</td>
</tr>
</tbody>
</table>

External Connections

<table>
<thead>
<tr>
<th>External Connection</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIAPPS - DWH Connection</td>
<td>External Connection for accessing the BI Applications Data Warehouse tables</td>
</tr>
</tbody>
</table>

Configuring the BI Applications System

To enable integration of Data Relationship Management with BI Applications, in BI Applications set the **Configure Data Load Parameters for Oracle Data Relationship Management Tool Integration** task in the Functional Setup Manager to Y.

Additional Documentation

The following documentation will be helpful in understanding the integration of Data Relationship Management and BI Applications.

- *Oracle Data Relationship Management Installation Guide*
- Oracle Data Relationship Management Administrator’s Guide
- Oracle Data Relationship Management User’s Guide
- Oracle Business Intelligence Applications Configuration Guide 11g Release 1 (11.1.10)
Locating and Loading the Application Template

A BI Applications application template is installed as part of the Data Relationship Management installation. You use the template to configure the Data Relationship Management metadata to enable integration with BI Applications.

Caution! Review Possible Conflicts before loading the application template.

To locate the BI Applications application template:

1. On the computer where Data Relationship Management is installed, navigate to C:\Oracle\Middleware\EPMSystem11R1\products\DataRelationshipManagement\server\app-templates.

   Note: This is the default installation directory for application templates.

2. Locate the application template file named biapps-app-template.xml.

You use the Data Relationship Management Migration Utility to load the application template. See the Oracle Data Relationship Management Administrator’s Guide topic “Loading Metadata” for details on how to use the Migration Utility to load the application template.

The application template includes Data Relationship Management metadata objects for BI Applications. All metadata is required for the integration to function as designed.

Possible Conflicts

This application template contains two system preferences (InvName and InvDescr). Before loading the application template, review the values for these preferences against the values currently set in your system. This can be done manually or with the View Differences feature of
the Data Relationship Management Migration Utility. You do not have to migrate these preferences, especially if your configuration is more conservative for business reasons. The import is set up to not enforce invalid node name characters so that the BI Applications nodes can be imported even if their names contain invalid characters.

Other possible conflicts could include the Property Category, Hierarchy Groups, Node Types, External Connection, Imports, and Exports that are defined in the application template. The best way to determine any conflicts is by using the View Differences function of the Data Relationship Management Migration Utility. The Properties and Validations will not conflict because they are in the BI Applications namespace.

**Configuring the External Connection to the BI Applications Warehouse**

The External Connection must be properly configured before viewing, running or editing the Import and Export defined in the application template.

**Note:** The BI Applications system must be in place and set up prior to performing this task.

➢ To configure the External Connection:

1. Login to the Data Relationship Management system with an account that has the Application Administrator role.
2. On the Home page, select Administer.
3. Expand External Connections.
4. Edit the BIAPPS – DWH Connection.
5. Define the Connection String, User ID, and Password to connect to the BI Applications Data Warehouse.
6. Click Test Connection to test the connection string, user id, and password.
7. After the test is successful, click Save to save the changes to the external connection.

**BI Applications Uniqueness Constraints**

When sending data back to BI Applications, the following constraints must be observed:

- Uniqueness by DSN and SRC ID—The Combination of Src Node Integration ID and Data Source Number must be unique for BIAPPS sourced nodes. See **Uniqueness by DSN and SRC ID**.

- Data Relationship Management Custom Nodes and SRC ID Conflict—Custom nodes in Data Relationship Management cannot have a node name that matches a BI Applications sourced node’s Src Node Integration ID. See **Data Relationship Management Custom Nodes and SRC ID Conflict**

Following is an example set of data.
<table>
<thead>
<tr>
<th>DSN</th>
<th>Src Node ID</th>
<th>DRM Node ID</th>
<th>DRM Node Name</th>
<th>DRM Node Flag</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>1000</td>
<td>1</td>
<td>100<del>INT_ORG</del>1000</td>
<td>N</td>
<td>Invalid (Conflicts with DRM Node)</td>
</tr>
<tr>
<td>200</td>
<td>1001</td>
<td>2</td>
<td>200<del>INT_ORG</del>1001</td>
<td>N</td>
<td>Valid (Unique by combination of DSN and Src Node ID)</td>
</tr>
<tr>
<td>200</td>
<td>1000</td>
<td>3</td>
<td>200<del>INT_ORG</del>1000</td>
<td>N</td>
<td>Invalid (Conflicts with DRM Node)</td>
</tr>
<tr>
<td>300</td>
<td>1001</td>
<td>4</td>
<td>300<del>INT_ORG</del>1001</td>
<td>N</td>
<td>Valid (Does Not conflict with a Src Node ID for BIApps nodes)</td>
</tr>
<tr>
<td>300</td>
<td>1005</td>
<td>5</td>
<td>300<del>INT_ORG</del>1005</td>
<td>N</td>
<td>Valid (Does Not conflict with a Src Node ID for BIApps nodes)</td>
</tr>
<tr>
<td>400</td>
<td>1005</td>
<td>6</td>
<td>400<del>INT_ORG</del>1005</td>
<td>N</td>
<td>Invalid (Not Unique by DSN and SRC ID)</td>
</tr>
<tr>
<td>400</td>
<td>1005</td>
<td>7</td>
<td>400<del>XXX_ORG</del>1005</td>
<td>N</td>
<td>Invalid (Not Unique by DSN and SRC ID)</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>1002</td>
<td>Y</td>
<td></td>
<td>Valid (Does Not conflict with a Src Node ID for BIAPSS nodes)</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>1003</td>
<td>Y</td>
<td></td>
<td>Valid (Does Not conflict with a Src Node ID for BIAPSS nodes)</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>1000</td>
<td>Y</td>
<td></td>
<td>Invalid (Conflicts with a Src Node ID for a BIAPSS node)</td>
</tr>
</tbody>
</table>

**Uniqueness by DSN and SRC ID**

Solution: Do not modify these values in Data Relationship Management or referential integrity with data in BI Applications may be violated.

**Data Relationship Management Custom Nodes and SRC ID Conflict**

Solution: Qualify Data Relationship Management node names (with a prefix/suffix) to ensure that they cannot match a SRC ID. Then use a validation that does not allow the qualifier to be used for nodes where DRM_FLAG = N.
Managing BI Applications
Hierarchies in Data Relationship Management

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Importing Members from BI Applications

To import members from BI Applications:

1. Populate the following BI Applications staging tables in the BI Applications warehouse.
   - W_DRM_HIER_TOP_TMP
   - W_DRM_HIER_REL_TMP
   - W_DRM_NODES_TMP

   **Note:** See the Oracle Business Intelligence Applications Configuration Guide 11g Release 1 (11.1.10) documentation for detailed instructions.

2. Import data from BI Applications staging tables into a Data Relationship Management version using the BI Applications Node and Hierarchy import profile in Data Relationship Management to import the BI Applications nodes and hierarchies.
   
   The import defines the Hierarchy Node Type and assigns the validations to all hierarchies imported. Hierarchies and custom nodes can then be created and updated to create the structures desired for pushing back into BI Applications.

Creating Hierarchies in Data Relationship Management for BI Applications

In Data Relationship Management, you can create hierarchies as well as additional Data Relationship Management nodes. Nodes imported from BI Applications can be inserted into hierarchies created in Data Relationship Management. BI Applications nodes can only be
inserted under a parent imported from the same data source or a parent created in Data Relationship Management. This is enforced by the BIAPPS.DATA_SOURCE_ROLL_UP validation. Node properties included in the application template are configured so that nodes created in Data Relationship Management have the required values for export to BI Applications. Any new hierarchies used with BI Applications need to have the BIAPPS.BI_HIER_GROUP property set to INTORG_DIM. In addition, the validations for BI Applications need to be assigned and the Hierarchy Node Type property set to the BIAPPS.BI_NODE_TYPE property.

**Managing BI Applications Member Properties**

In general, the BI Applications properties are not intended to be edited by users in Data Relationship Management. They are designed to be imported from the BI Applications system only. New nodes created in Data Relationship Management default to the required values. Users who are not importing data should be given read-only access to the BI Applications Warehouse property category.

**Validating BI Applications Members and Properties**

The validations included in the application template for BI Applications are automatically assigned to hierarchies imported from BI Applications. In addition, all validations are assigned to run prior to the export. The validations can be run from the version or hierarchy or from a specific node at any time via the user interface. New hierarchies created in Data Relationship Management should have the validations assigned.

**Exporting Hierarchies to BI Applications**

- To export members from BI Applications:

  1. **Populate the BI Applications staging table from Oracle Data Relationship Management.**

     The export BIAPPS – DRM Hierarchy Export is set up to export hierarchies to the BI Applications staging table. It uses the BIAPPS – DWH Connection external connection to write the data to the W_DRM_HIER_OUT_TMP staging table in the BI Applications Data warehouse. New hierarchies for BI Applications must be added to this export. The BI Applications validations are executed prior to running the export. If no failures are detected then the export is run. You can copy and modify the export so that only specific hierarchies are exported.

  2. **Import data from BI Applications staging tables into Oracle Business Intelligence Applications.**

     *Note:* See the Oracle Business Intelligence Applications Configuration Guide 11g Release 1 (11.1.10) documentation for detailed instructions.