Oracle® Hyperion Financial Data Quality Management, Fusion Edition Adapter for Hyperion Essbase

Release G4-H

Readme

Purpose

This document includes important, late-breaking information about this release of the *Oracle® Hyperion Financial Data Quality Management, Fusion Edition* (FDM) adapter for *Oracle Hyperion Essbase, Fusion Edition* (Essbase). Review this information thoroughly before installing the adapter.

Overview

The FDM adapter for Essbase is a target adapter that allows users to load data from FDM into Essbase.

Date Created:	12/02/2010
Adapter Versions:	ES11X-G4-H.xml
	upsES11XG4H.exe
Compatibility:	See the *FDM 11.1.2.1 Readme* for FDM and Essbase compatibility information.

Installation

This section includes important information about installing this release of the FDM Adapter for Essbase.

> To add the Essbase adapter to an FDM application:

1. From FDM Workbench, open an FDM application.

2. Select the **Adapters** tab.

3. Select **File > Import**.
   The Open Metadata Import File dialog box is displayed.

4. Browse to find the file `ES11X-G4-H.xml` and click **Open**.

5. Select **File > Register Adapter**.
   The Register Adapter dialog box is displayed.

6. Browse to find the file `upsES11XG4H.exe` and click **Open**.

Configuration

Configuration Options

> To configure the adapter:

1. In FDM Workbench, from the **Adapters** tab, select the adapter.

2. Right-click and select **Options**.
   The Adapter Options dialog box is displayed. The Options menu enables you to select any of the options and change the option settings.

3. Set the adapter options per the guidelines in the following table:

Option Name	Information Required
Application Name (required)	Name of the Essbase application in which to load data.
Essbase DB Name	Name of the database used by the Essbase application to which you are loading data.
Default Calculation Method	0-Dynamic, 1-File. Select Dynamic to execute a user-defined calculation script in Essbase. This script is defined in the Consolidate action found in the adapter. Select File to execute a pre-defined Calc script within Essbase.
Enable Load	On/Off switch to enable the Load action. Default setting is On.
Enable Drillable Region Load	On/Off switch used to enable or disable the loading of drillable region data to the target application. Disabling this option can improve performance. If drillable region data is not loaded to the target application, then you must set the drillable region manually in the target application to get drill-through to work. Set to "Off" when using FDM release 11.1.1.2 or earlier.

Option Name	Information Required
Enable Consolidate	On/Off switch used to enable the Consolidation action. Default setting is On.
Enable Validation	On/Off switch to enable the Validate action, which executes validation rules and generates a validation report (Check step of the FDM process flow).
Logon Method	1-Unified, 2-Global. Default setting is 1 – Unified. If the machine profile contains a username/password, this setting is ignored. See the *FDM Configuration Guide* for information about setting up a machine profile.
Global Logon Information	User name and Password of an Essbase user. Separate with a semi-colon (;). If the machine profile contains a username/password, this setting is ignored. See the *FDM Configuration Guide* for information about setting up a machine profile.
Load Method	0-Replace, 1-Merge. Select Replace to execute a Clear script (found in the Load action).
Dimension Cache Switch	On/Off switch for enabling the caching of Essbase members. When this option is enabled, FDM will retrieve the Essbase members from the dimension lookup table. You must have executed the ES_UpdateDimCache script to use this option.
Enable Base Entity Calc	On/Off switch to enable base entity calculations in Essbase.
Browse For All Members	On/Off switch. When enabled, the list of members returned will contain all members for a given dimension. Otherwise, the list will contain only base members for a given dimension.
Enable String Load	On/Off switch. Off is default. When disabled, only users with full Essbase administrator rights can load to Essbase. When enabled, non-administrator Essbase users can load to Essbase.
Enable paging functionality in Export action	On/Off switch to enable paging functionality in the adapter Export action. Use this option when running FDM 11.1.1.3.x or prior.
Page Size of Recordset during Export	Default page size is 7500 records. This option is used for limiting the number of records to export at one time. This helps with memory management. **Note:** When using the Web client to set this field, the value cannot exceed 2,147,483,647.
Load Rule Name	Required when using the String Load option. This option is overridden by a location's Integration Option #2 value.
Calculate Switch	Not used.
List1	0-Load, 1-Scan Load is the default setting and the only option used.
List2	Not used.
List3	Not used.
Status1	Not used.

Option Name	Information Required
Status2	Not used.
Status3	Not used.

User and Environmental Variables

After the Essbase install, the ARBORPATH and ESSBASEPATH variables will be assigned as a User variable and must be re-assigned and duplicated to System Environment variables. This is required on the FDM application server and any computer that is running FDM Workbench.

Note: This procedure must be performed while logged in with the same user name that was used when installing Essbase.

Note: This procedure is only required when using the Essbase G4-H adapter with FDM Release 11.1.2.1.

For New Installs

> To set the ESSBASEPATH variable:

1. From **My Computer**, right-click and select **Properties**.

   The System Properties dialog box is displayed.

2. Select the **Advanced** tab.

3. Click **Environment Variables**.

   The Environment Variables screen is displayed.

4. Under the **System Variables** field, click **New**.

   The New System Variable dialog box is displayed.

5. In the **Variable Name** field, enter `ESSBASEPATH`.

6. In the **Variable Value** field, enter `<EPM_ORACLE_HOME>\common\EssbaseRTC\11.1.2.0`.

7. Click **OK**.

8. From the Environment Variables screen, under **System Variables**, select **Path**.

9. Click **Edit.**
   The Edit System Variable screen is displayed.

10. In the **Variable value** field, perform one of the following:

    - For 32-bit –add `%ESSBASEPATH%\bin`

    - For 64-bit – add `<EPM_ORACLE_HOME>\bin-32;%ESSBASEPATH%\bin;`
      `<EPM_ORACLE_HOME>\products\Essbase\EssbaseClient-32\bin`

11. Click **OK** to close the Edit System Variable screen.

12. Click **OK** to close the Environment Variables screen.

For Maintenance Releases

> To set the ESSBASEPATH and ARBORPATH variables:

1. From **My Computer**, right-click and select **Properties**.

   The System Properties dialog box is displayed.

2. Select the **Advanced** tab.

3. Click **Environment Variables**.

   The Environment Variables screen is displayed.

4. Under the **User Variables** field, select **ARBORPATH**.

5. Click **Delete**.

6. Under the **User Variable** field, select **ESSBASEPATH**.

7. Click **Delete**.

8. Under the **System Variables** field, select **ARBORPATH**.

9. **Click Delete**.

10. Under the System Variables field, select **ESSBASEPATH**.

11. Click **Edit**.

   The Edit System Variable screen is displayed.

12. In the **Variable value** field, add `<EPM_ORACLE_HOME>\common\EssbaseRTC\11.1.2.0`.

13. Click **OK**.

14. From the Environment Variable screen, under **System Variables**, select **Path**.

15. Click **Edit**.

   The Edit System Variable screen is displayed.

16. In the **Variable value** field, perform one of the following:

   - For 32-bit –add `%ESSBASEPATH%\bin`

   - For 64-bit – add `<EPM_ORACLE_HOME>\bin-32;%ESSBASEPATH%\bin;`
      `<EPM_ORACLE_HOME>\products\Essbase\EssbaseClient-32\bin`

17. Click **OK** to close the Edit System Variable screen.

18. Click **OK** to close the Environment Variables screen.

Mapping FDM Dimension Names to Target System Dimension Names

FDM dimension names must be mapped to the target system dimension names for drill-through functionality to work. This can be accomplished in two ways, using the Essbase adapter's Configure screen, and using the Essbase adapter's Dimension node:

Using the Essbase Adapter's Configure Screen

1. Log in to FDM Workbench.

2. Select the **Adapters** tab.

3. Right-click on the Essbase adapter and select **Configure**.

   The Adapter Integration Setup screen is displayed.

4. Select the **Dimensions** tab.

5. Select the dimensions that will be used to load to Essbase and ensure the following properties are enabled and configured:

   - Check the **Active** box.

   - Select the **Target Dimension** drop-down menu and select the target dimension to which to map. **Note:** Integration to the target application is required for this step.

   - Repeat for each FDM dimension that will be mapped to a target dimension.

Using the Essbase Adapter's Dimension Node

1. Log in to FDM Workbench.

2. Select the **Adapters** tab.

3. Expand the Essbase adapter.

4. Expand the Dimensions node.

5. Right-click a dimension and select **Properties**.

   The Dimension Properties screen is displayed.

6. In the **Foreign Name** field, enter the name of the Essbase dimension to which to map.

   Repeat for each dimension that will be mapped to a target dimension.

Using the Adapter

Essbase Fragmentation

To avoid Essbase cube fragmentation, Oracle recommends that you load data to Essbase in a certain dimension sequence and order. There are two ways to set the order in which FDM will export and load dimensional data into Essbase.

>   To define the Essbase load order using Workbench:

1. Open the FDM application.

2. Select the **Adapters** tab.

3. Select the Essbase adapter, right-click and select **Configure**.

   The Hyperion Essbase Integration Setup screen is displayed.

4. Select the **Dimensions** tab.

5. Select an active dimension.

6. In the **Calc Sequence** field, enter a sequence number in which to load the dimension to Essbase.

7. Repeat steps 5 and 6 for all active dimensions.

8. Click **OK**.

>   To define the Essbase load order using the Web client:

1. Open the FDM application.

2. If the current POV is not using the Essbase adapter, select a location that is using the Essbase adapter.

3. Select **Metadata > Dimensions**.

   The Dimensions screen is displayed.

4. In the **Calc Sequence** column for each dimension, enter a sequence value in which to load the dimension to Essbase.

5. Click **Update Grid**.

Note: Calc Sequence setting changes in the adapter can affect the order in which dimensions are mapped.

Calculate/Consolidate Call

The calculate/consolidate call makes use of the Account dimension alias. The Calculate/Consolidate call will fail if the Account dimension alias is not specified.

Known Issues

Support for BSO Cubes Only

FDM supports only the loading of BSO cubes from Essbase. It does not support the loading of ASO cubes.

Drillable Region Loading

Drillable region loading is only supported for loading to block storage and ASCII Essbase applications. If you attempt to load drillable region data to a Unicode Essbase application, the drillable region load will fail.

Integrating with Essbase Applications that Contain Multibyte Characters

Problem: When using Browse to select members that contain multibyte characters, the value of the dimension is not returned with the correct encoding.

Solution:

For Dimension Mapping, you can use any of the following options.

- Manually enter the map values (member name) for each dimension.

- Create a map file outside of FDM (e.g. FDM Map Template) and then import the map into FDM.

- Create * to * mapping in FDM (if imported file contains all members that exist in Essbase).

For control table mapping, you must enter the map values (dimension names) manually. In addition, you must uncheck the "UseList" option for each dimension that contains multibyte characters. This also applies for validation rules. When defining target member lookup values, ensure that the UseList option is disabled for the dimensions required in the validation rule.

Validation Rules and Essbase using European Operating Systems

European standards use a comma (,) as a decimal separator. Because localized Essbase uses a period as the decimal separator regardless of the OS, FDM validation rules cannot pull the correct amounts from Essbase when using European-localized versions. All amounts will display as zeroes. FDM validation rules will not work with European-localized operating systems and the Check reports will always report errors.

Method for Target Val Lookup when Period Dim Inactive

Problem: When integrating with Essbase, the Period table reverts to using the old method of browsing for the target value when both of the following are set:

- The Period dimension is inactive and its corresponding UseList option is off.

- The Year dimension is active and has the UseList option turned on.

Note: When a dimension is inactive, no other properties should be considered.

Solution: Period is a required dimension for FDM. Period information from the target application must be mapped to the Period dimension in FDM. The Period dimension in the target application could be Period or it could be Year but it must be mapped to the Period dimension in FDM.

Essbase Security Requirements

Some FDM tasks require the user to have certain security privileges for Essbase. The following table outlines the tasks and Essbase privileges required.

Task	Privileges Required
Perform a Load by Append into Essbase.	Application or Database Design privilege (ESB_PRIV_APPDESIGN or ESB_PRIV_DBDESIGN) for the specified application or database containing the object.
Perform a string load into Essbase.	No special privileges.
Perform a replace during the load to Essbase.	Application or Database Design privilege (ESB_PRIV_APPDESIGN or ESB_PRIV_DBDESIGN), for the specified application or database containing the object. Calc privilege (ESB_PRIV_CALC) to the active database.
Perform a consolidation (assigning a Validation Entity to the FDM location).	Calc privilege (ESB_PRIV_CALC) to the active database.

Notes

- Additional languages have been added. See the Oracle Hyperion Enterprise Performance Management System Certification Matrix (http://www.oracle.com/technology/products/bi/hyperion-supported-platforms.html) for information about localization for this adapter.

- See the *FDM 11.1.2.1 Readme* for additional information regarding the FDM Adapter for Essbase.

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