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Agile Product Lifecycle Management

Agile PLM BI Readme

v.3.2.0.2

Part Number: E26081_04

March 2012

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Preface

Oracle's Agile PLM documentation set includes Adobe® Acrobat PDF files. The [Oracle Technology Network \(OTN\) Web site](http://www.oracle.com/technetwork/documentation/agile-085940.html) <http://www.oracle.com/technetwork/documentation/agile-085940.html> contains the latest versions of the Agile PLM PDF files. You can view or download these manuals from the Web site, or you can ask your Agile administrator if there is an Agile PLM Documentation folder available on your network from which you can access the Agile PLM documentation (PDF) files.

Note To read the PDF files, you must use the free Adobe Acrobat Reader version 9.0 or later. This program can be downloaded from the [Adobe Web site](http://www.adobe.com) <http://www.adobe.com>.

The [Oracle Technology Network \(OTN\) Web site](http://www.oracle.com/technetwork/documentation/agile-085940.html) <http://www.oracle.com/technetwork/documentation/agile-085940.html> can be accessed through **Help > Manuals** in both Agile Web Client and Agile Java Client. If you need additional assistance or information, please contact My Oracle Support (<https://support.oracle.com>) for assistance.

Note Before calling Oracle Support about a problem with an Agile PLM manual, please have the full part number, which is located on the title page.

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Readme

Any last-minute information about Agile PLM can be found in the Readme file on the [Oracle Technology Network \(OTN\) Web site](http://www.oracle.com/technetwork/documentation/agile-085940.html) <http://www.oracle.com/technetwork/documentation/agile-085940.html>.

Agile Training Aids

Go to the [Oracle University Web page](http://www.oracle.com/education/chooser/selectcountry_new.html) http://www.oracle.com/education/chooser/selectcountry_new.html for more information on Agile Training offerings.

Accessibility of Code Examples in Documentation

Screen readers may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an otherwise empty line; however, some screen readers may not always read a line of text that consists solely of a bracket or brace.

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Patch Installation

This chapter includes the following:

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▪ Preinstallation Steps.....	2
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This document describes the steps to install Agile PLM Business Intelligence Service Pack 3.2.0.2.0 on an existing instance of Agile PLM Business Intelligence of 3.2.0.1.0 or any 3.2.0.1.x release.

This Service Pack release contains the following:

- Cumulative fixes from Agile PLM Business Intelligence Patch 3.2.0.1.1 to the Agile PLM Business Intelligence 3.2.0.1.9 release.
- Certification for Agile PLM 9.3.0.3
- Certification for Agile PLM 9.3.1
- Certification for Agile PLM 9.3.1.1
- Certification for Agile PLM 9.3.1.2
- Certification on Real Application Cluster (RAC)
- Certification on Oracle 11gR2

Important Do not apply this service pack if you are using PLM Business Intelligence version 3.2.0.1.9.

Prerequisites

Agile PLM Business Intelligence 3.2.0.1.0 or 3.2.0.1.x must already be installed.

Preinstallation Steps

Perform the following steps *before* installing this patch release:

1. Stop the following:
 - ODI Agents
 - Scheduler Agent
 - ETL tasks

2. Export or copy the following and store them in a backup location in order to enable a back-out at a later stage:
 - a. Export the MDS Schema
 - b. Copy the existing RPD file
 - c. Copy the Web Catalog folder

Backing out from the Patch Installation

If, for any reason, a back-out is required from the patch installation, *and* you have implemented the above steps, you can back out from the patch installation by completing the following steps:

1. Restore the MDS Schema by importing the previously backed up database export dump to a schema with the same username and password.
2. Remove temp tables (i\$, j\$ and C\$) from all the schemas.
3. Change the ETL configuration to run Data Mart and MDS in FULL load mode.
4. Restore the RPD file from the backup location.
5. Restore the Web Catalog from the backup location.

Installation Steps

To complete the patch installation, perform the following steps:

1. Set the environment variable to point to the PLM BI home directory (where the existing Agile PLM BI 3.2.0.1 software is installed).

In Windows: Set PLMBIMDS_Home = D:/PLMBIMDS

In Linux and Solaris: export PLMBIMDS_Home = /home/oracle/PLMBIMDS

2. Copy the *BI3202.zip* file to the PLM BI home directory.

3. Unzip the content from the *BI3202.zip* file.

Enter the following command to extract the contents of the .zip file.

```
jar -xvf BI3202.zip
```

After you extract the files, the PLM BI home directory (%PLMBIMDS_Home% or \$PLMBIMDS_Home) displays the following folders under the **Patches** folder:

- **BI3202**
 - **etl**
 - **schema**
 - **RPD**
 - **webcatalog**

4. Execute the SQL script to apply MDS schema changes.

1. Using the command prompt, or shell prompt terminal, log into the MDS schema.
2. After connecting to the MDS Schema, execute the following script:

```
SQL>@MDS3202.sql
```

The *MDS3202.sql* script can be found at the following location:

In Windows: %PLMBIMDS_Home%\Patches\BI3202\schema
In Linux and Solaris: \$PLMBIMDS_Home/Patches/BI3202/schema

5. Execute the batch file to import the MDS ODI ETL components. The batch file can be found at the following location:

In Windows: %PLMBIMDS_Home%\bin
In Linux or Solaris: \$PLMBIMDS_Home/bin

1. Execute the batch file as follows:

In Windows:

```
cd %PLMBIMDS_Home%\bin  
BIInstall_sp.bat <BI_HOME>
```

Note Replace <BI_HOME> with the PLM BI home directory path. For example: Replace <BI_HOME> with D:\PLMBIMDS

In Linux or Solaris:

```
cd $PLMBIMDS_Home\bin  
./BIInstall_sp.sh <BI_HOME>
```

Note Replace <BI_HOME> with the PLM BI home directory path. For example: Replace <BI_HOME> with /home/oracle/PLMBIMDS

<p>Important Make sure that the <i>BIInstall_sp.sh</i> has 'Execute' privileges. Make sure that \$ODI_HOME/bin folder is present in Operating System Path.</p>
--

6. After applying the patch, execute a FULL ETL load.

RPD and Web Catalog Changes

You can find the RPD file at the following location:

In Windows: %PLMBIMDS_Home%\Patches\BI3202\rpd\PLMA.rpd
In Linux and Solaris: \$PLMBIMDS_Home/Patches/BI3202/rpd/PLMA.rpd

You can find the Web Catalog PLMA folder at the following location:

In Windows: %PLMBIMDS_Home%\Patches\BI3202\webcatalog\PLMA
In Linux and Solaris: \$PLMBIMDS_Home/Patches/BI3202/webcatalog/PLMA

Important Before upgrading the RPD file, you must look for differences between your existing RPD file (that is currently in your local environment) and the new RPD file (that is provided with this patch).

Identifying Differences between RPD Files

To identify the differences between your existing RPD file and the new RPD file provided in this patch, follow these steps:

1. In the Oracle BI Administration Tool, select **File > Open > Offline**.
2. In the Open dialog box, navigate to the location for the new RPD file, select the new RPD file, and click **Open**.
3. Enter your username and password in the Open Offline PLMA.rpd dialog box, and click **OK**.
4. Go to **File > Compare**.
5. From the **Select Original Repository** dialog box, find and select your existing RPD file.

Note Unless you have changed the name of your existing RPD file, the new RPD file and your existing RPD file have the same name - *PLMA.rpd*.

6. Enter username and password in the Open Offline PLMA.rpd dialog box, and click **OK**.
7. You now get an **Oracle BI Administration Tool** dialog box, with the question: Do you want to mark differences in the repository immediately? Click **No**.

The **Compare** repositories window displays the changes between the existing RPD file and the new RPD file.

8. You can save all the differences between the two repositories in a spreadsheet. From the **Compare** repositories window, select **Save**.

Upgrading the RPD File

Note Ensure that you stop the BIService Service before replacing the RPD file. To ensure all customizations are properly merged (if you have customized the existing *PLMA.rpd file*), refer to OBIEE documentation on how to perform an RPD merge.

Important Ensure to perform the RPD merge before upgrading the RPD file.

To upgrade the RPD File:

1. Create a backup copy of the existing *PLMA.rpd* file.

Important Do not delete your existing RPD file!

2. Your existing RPD file is located at `<ORACLE_BI_HOME>/server/repository/`.

3. Copy your existing RPD from the above location, and place the copy of your existing RPD file in a completely different location!
4. Copy the new RPD file (from the location given at the beginning of this section), and paste it at the following location:

File Path: <ORACLE_BI_HOME>/server/Repository

5. Restart the BIServer Service after you have successfully completed the above steps.

Note Configure the MDS Schema Connection Pool details using the OBIEE Admin Tool. For more information on how to do this, see the *PLM Business Intelligence Setup Guide*.

Upgrading the Web Catalog

To upgrade the Web Catalog:

1. Copy the PLMA `webcatalog` folder from the location where the patch was extracted (`Patches>BI3202>webcatalog`).
2. Paste the PLMA `webcatalog` folder in the following location:

File Path: <ORACLE_BI_HOME>/OracleBIData/web/catalog

File Name: *PLMA*

```
PLMA/root/shared/product+changes/change+analyst/submitted+issues
open+change+orders+--+detailed
open+change+orders+--+detailed.atr
open+change+orders+not+implemented+--+detailed
open+change+orders+not+implemented+--+detailed.atr
open+change+requests+--+detailed
open+change+requests+--+detailed.atr
```

```
PLMA/root/shared/product+changes/change+orders/overview  
ftr+by+sign-off+user+group  
ftr+by+sign-off+user+group+--+detailed  
ftr+by+sign-off+user+group+--+detailed.atr  
ftr+by+sign-off+user+group.atr
```

```
PLMA/root/shared/product+changes/co%6efiguration+manager/summary  
sign-off+cycle+time+by+sign+off+user+group  
sign-off+cycle+time+by+sign+off+user+group.atr  
PLMA/root/shared/product+changes/mfr+change+orders/overview  
ftr+by+sign-off+user+group  
ftr+by+sign-off+user+group+--+detailed  
ftr+by+sign-off+user+group+--+detailed.atr  
ftr+by+sign-off+user+group.atr
```

Installing on Real Application Cluster

This chapter includes the following:

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▪ Installing Agile PLM Business Intelligence Patch 3.2.0.2 on Real Application Cluster.....	9
▪ Post Installation Steps.....	10

This section lists the prerequisites, installation procedure, and post-installation guidelines for installing Agile PLM Business Intelligence Patch 3.2.0.2 on Real Application Cluster.

Prerequisites

1. Install Oracle 11gR2 clusterware. For more information, see Oracle 11gR2 documentation.
2. Install RAC on Agile PLM Data Mart Release 3.2.0.2. For more information, see *Agile PLM Data Mart Readme Release 3.2.0.2*.

Installing Agile PLM Business Intelligence Patch 3.2.0.2 on Real Application Cluster

1. Create TNS entries for Agile PLM source on each node in the cluster.

Note ETL will fail if the TNS entries are not created.

2. Install Agile PLM Business Intelligence in any of the nodes in the cluster environment by following the installation procedure provided in the *Agile PLM Business Intelligence Installation and Setup Guide*.

Post Installation Steps

After you install Agile PLM Business Intelligence on RAC, perform the following steps:

1. Launch the ODI Operator.

Note Agile PLM Business Intelligence can be installed on any of the nodes in the cluster.

2. Replace the URL in the Work Repository Connection window with the corresponding details of the two nodes. The URL is displayed in the following format:

```
Jdbc:oracle:thin:@<host>:port:sid
```

To replace the URL, see the example below:

```
Jdbc:oracle:thin:@(DESCRIPTION=(LOAD_BALANCE=on)
(ADDRESS=(PROTOCOL=TCP) (HOST=<NODE # 1 HOSTNAME> (PORT=1521))
(ADDRESS=(PROTOCOL=TCP)(HOST=<NODE # 2 HOSTNAME> (PORT=1521))
(CONNECT_DATA=(SERVICE_NAME=<SID NAME>)))
```

Note For more information on setting up ODI Users, refer to the "Setting up ODI Users" section in the *Agile PLM Data Mart Setup Guide*.

3. Launch the **Topology Manager** and update the target JDBC database configuration for MDS. Please refer to the example provided in *Step 2*.

Note For more information, see ODI documentation or contact Oracle Support.

Known Issue

Issue

Dimensions that are premapped out-of-the-box to an Agile PLM attribute do not show any data (if the Agile PLM attribute's list is re-configured to a dynamic list of object data type from the out-of-the-box standard configured list in Agile PLM Administrator). This is because; in the BI model (PLMA.rpd) the dimension table does a join to lookup localized data from the LANG table. As Agile PLM does not maintain any localized data for a Dynamic object based list, it does not load into the LANG table.

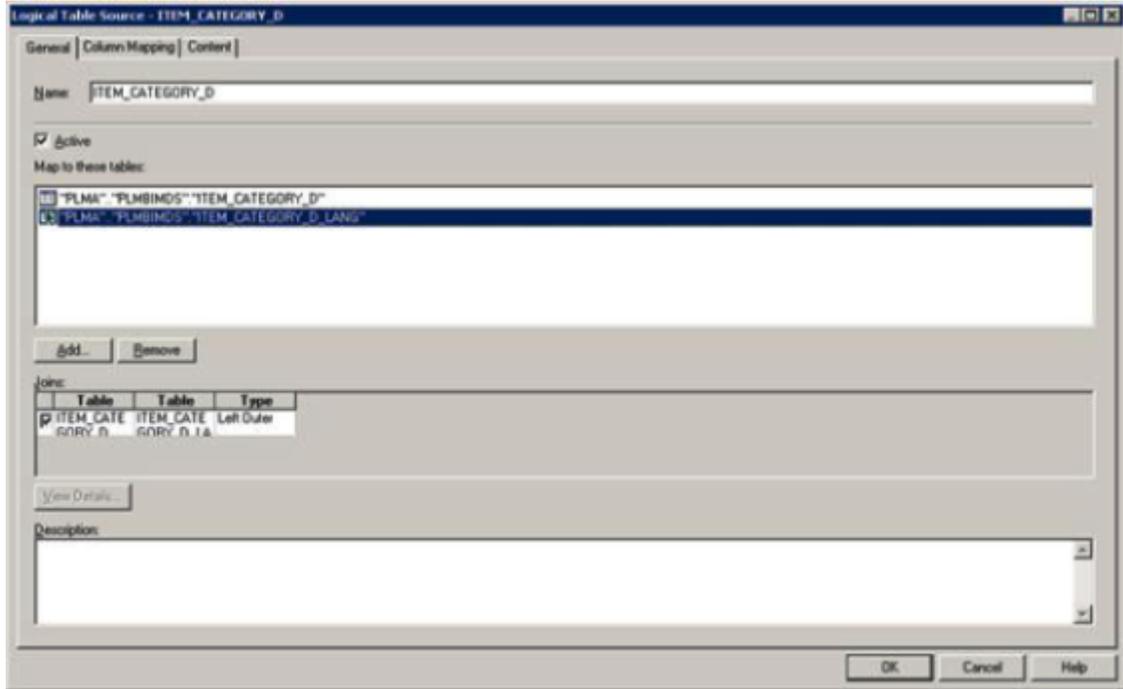
As a result, some of the reports (for example, reports using the Part Category dimension) do not show results. In order to address this issue, follow the steps below to disable the LANG table lookup for these dimensions in the Oracle BI Model (PLMA.rpd).

Workaround

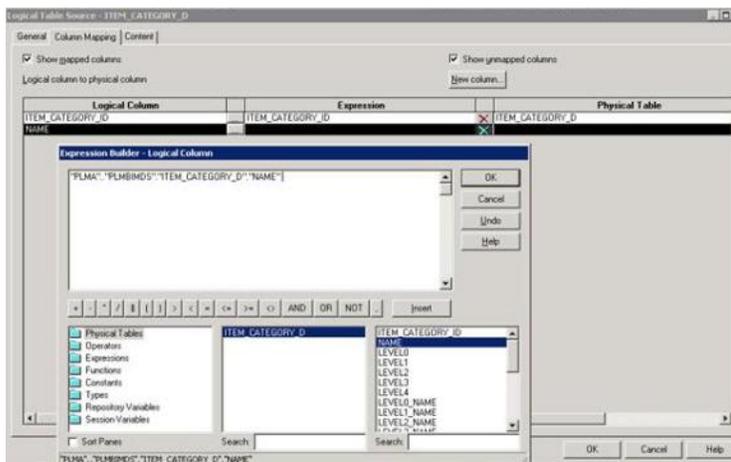
If you disable the language data lookup in the BI Model, the Dimension shows actual data.

To disable the LANG table lookup for the dimensions impacted by this issue, use the steps listed below:

1. Log in to the **OBIEE Administration** tool.
2. Identify the dimension that is configured to a dynamic list.
3. Go to the BMM layer in the rpd file and open the logical table source of the dimension.



4. From the logical table source remove the `_LANG` table.
5. Select the **Column Mapping** tab and remap the Name column to the Name column in the dimension table.



Related Documentation

The following documents in the [Agile documentation](http://www.oracle.com/technology/documentation/agile.html) <http://www.oracle.com/technology/documentation/agile.html> page on the [Oracle Technology Network](http://www.oracle.com/technology/index.html) <http://www.oracle.com/technology/index.html>., provide detailed information on the Agile PLM Business Intelligence application:

- *Agile PLM BI Setup Guide*
- *Agile PLM BI User Guide*
- *Agile PLM BI Data Reference Manual*
- *Agile PLM BI Capacity Planning Guide*
- *Agile PLM BI MDS Configurator and Data Mapping Guide*

We suggest you refer to the documentation of the following products from the [Oracle Technology Network](http://www.oracle.com/technology/index.html) <http://www.oracle.com/technology/index.html>. as they closely associate to the Agile PLM Business Intelligence application:

- *Oracle Data Integrator*
- *Agile Product Lifecycle Management*

