



Oracle Product Lifecycle Analytics

Readme

v.3.3.0.1

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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.

TTY Access to Oracle Support Services

Oracle provides dedicated Text Telephone (TTY) access to Oracle Support Services within the United States of America 24 hours a day, 7 days a week. For TTY support, call 800.446.2398. Outside the United States, call +1.407.458.2479.

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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Overview of Oracle PLA 3.3.0.1

This chapter includes the following:

▪ What's New.....	5
▪ 3.3.0.1 Patch Set Installation	6
▪ Resolved Issues	9
▪ Known Issues	10
▪ Related Documentation	11

Oracle PLA 3.3.0.1 is a Service Pack release. Before installing the patch set, you must install Oracle PLA 3.3.

Note For information on *3.3.0.1 patch set* installation, see [Patch Set Installation](#) on page 6.

What's New

The Oracle PLA 3.3.0.1 upgrades the existing Oracle PLA 3.3 code base with the following new features:

- Agile PLM 9.3.1.1 release certification
- PC Deviations
- ETL Performance optimization by tuning Meta-Flex procedure, and DELETE TXN ODI Interface

The Oracle PLA 3.3.0.1 release introduces **Deviations** as a new subject area. The Deviations subject area allows you to analyze the following:

- Volume (specifically changes in volume by time)
- Cycle Time (notably you can measure cycle times between statuses, and measure cycle times within a status)
- Aging of Deviations across category and reason for change
- Analyze the sign-off cycle time by the sign-off users

3.3.0.1 Patch Set Installation

Important Before upgrading your application to 3.3.0.1 version, make sure that you install JRE/JDK 1.5 or higher for Agile PLM.

Patch Set Components

The Oracle PLA 3.3.0.1 patch set consists of a README text file and the following folders:

- bin
- config
- lib
- Patches
 - OPLA3301
 - etl
 - olap
 - schema

Pre-installation Steps

Important Run one ETL load on the existing 3.3 environment before installing 3.3.0.1 patch set.

To install the patch release:

1. Install Oracle Product Lifecycle Analytics 3.3.
2. Stop the following actions/tasks:
 - ODI Agents
 - Scheduler Agent
 - ETL Tasks

To enable a back out from the patch installation at a later point, if required:

1. Export the following database schemas and store them in a backup location:
 - ODI Work repository
 - Stage/ODM schema
 - MDS Schema
2. Copy existing RPD file to a backup location.

To restore the schemas if the patch installation fails:

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

Patch Set Installation Steps

This section describes the procedure to install the patch set. The complete installation of the patch set involves:

- [Extracting OPLA3301.zip](#) on page 7
- [Executing Script to Import/Apply Schema Changes](#) on page 8
- [Executing Script to Import ODI ETL Components](#) on page 8
- [RPD Installation](#) on page 9

Extracting OPLA3301.zip

To unzip OPLA3301.zip:

1. Copy the OPLA3301.zip to the OPLA installed home directory.
2. Run the command `jar -xvf OPLA3301.zip` to unzip OPLA3301.zip.

After the extraction process has been completed, the <OPLA_Home> folder will have the following folders:

- bin
- config
- lib
- Patches
- README.txt

Executing Script to Import or Apply Schema Changes

To execute the batch/shell script and import or apply schema changes:

1. Locate `ImportSchemaComponents_OPLA3301.bat` and `ImportSchemaComponents_OPLA3301.sh` in `<OPLA_HOME>\bin`.
2. Launch the command/shell prompt terminal and navigate to the directory `<OPLA_HOME>\bin`.
3. Run the following commands:
 - *For Windows:* `ImportSchemaComponents_OPLA3301.bat [ORACLE_TNS] [ODM_USR] [ODM_PWD] [MDS_USR] [MDS_PWD] [OPLA_HOME]> ..\logs\Patch3301_SchemaComponents.log`

Example:

- `cd C:\OPLA33_HOME\bin`
- `ImportSchemaComponents_OPLA3301.bat BLR47_PLMDM ODM ODM MDS MDS C:\OPLA33_HOME > ..\logs\Patch3301_SchemaComponents.log`
- *For Linux:* `ImportSchemaComponents_OPLA3301.sh [ORACLE_TNS] [ODM_USR] [ODM_PWD] [MDS_USR] [MDS_PWD] [OPLA_HOME]`

Example:

- `cd /home/OPLA33_HOME/bin`
- `./ImportSchemaComponents_OPLA3301.sh BLR47_PLMDM ODM ODM MDS MDS /home/OPLA33_HOME > ../logs/Patch3301_SchemaComponents.log`

Note Ensure `<OPLA_HOME>\bin` is present in the Operating System path and `ImportSchemaComponents_OPLA3301.sh` has *Execute* privileges.

Replace the variables in the command shown above before executing the scripts in the OS prompt.

Variable	Description
[ORACLE_TNS]	Oracle TNS name of the target SID that connects the schema
[ODM_USR]	Stage/ODM schema User Name
[ODM_PWD]	Stage/ODM schema User Password
[MDS_USR]	MDS schema User Name
[MDS_PWD]	MDS schema User Password
[OPLA_HOME]	OPLA Installed directory Home Path

Executing Script to Import or Apply ODI ETL Components

To execute the batch/shell script and import or apply ODI ETL components:

1. Locate `ImportODIComponents_OPLA3301.bat` and `ImportODIComponents_OPLA3301.sh` in `<OPLA_HOME>\bin`.
2. Launch the command/shell prompt terminal and navigate to the directory `<OPLA_HOME>\bin`.

3. Run the following commands:

- *For Windows:* `ImportODIComponents_OPLA3301.bat [OPLA_HOME] [ODI_WORKREP]`

Example:

- `cd C:\OPLA33_HOME\bin`
- `ImportODIComponents_OPLA3301.bat C:\OPLA33_HOME WORKREP > ..\logs\Patch3301_ODIComponents.log`
- *For Linux:* `ImportODIComponents_OPLA3301.sh [OPLA_HOME] [ODI_WORKREP]`

Example:

- `cd /home/OPLA33_HOME/bin`
- `./ImportODIComponents_OPLA3301.sh /home/OPLA33_HOME WORKREP > ../logs/Patch3301_ODIComponents.log`

Note Ensure `<OPLA_HOME>\bin` is present in the Operating System path and `ImportODIComponents_OPLA3301.sh` has *Execute* privileges.

Replace the variables in the command shown above before executing the scripts in the OS prompt.

Variable	Description
[OPLA_HOME]	OPLA Installed directory Home Path
[ODI_WORKREP]	Is the logical name of work repository, but is not the ODI Work schema name

RPD Installation

To install RPD:

1. Shut down the OBIEE Server.
2. Back up the existing `PLMA.rpd` as `PLMA_bak.rpd`.
3. Copy the new patch RPD from below location to the OBIEE Server data directory located at `[OPLA_HOME]\Patches\OPLA3301\olap\rpd\PLMA9\OBIEE10g`.
4. Update `tnsname.ora` with target SID.
5. Update the Connection Pool details in the RPD.
6. Start the OBIEE Server.

Resolved Issues

The following bugs have been resolved in the 3.3.0.1 patch release:

FULL LOAD ETL FAILS WHEN THE SOURCE IS UPGRADED TO AGILE PLM 9.3.1

- **Issue:** The Full Load ETL fails when the source is upgraded to Agile PLM 9.3.1 from older versions. This issue is an A9 related upgrade script and the bug logged against it.
Resolution: The Activity Baseline table in the Agile PLM source contains all the Duration columns in Days while upgrading to Agile PLM 9.3.1. The Agile PLM patch has to be executed on the existing 9.3.1 version. This will convert the Duration columns from Days to Milliseconds.

UNABLE TO CONFIGURE PR AFFECTED ITEM MULTILIST01 TO MULTILIST03

- **Issue:** Affected Item Multilist01 to Multilist03 attributes for PR, NCR, CAPA and Audit classes cannot be configured in MDS Configurator.
Resolution: Run one ETL load on existing 3.3 environment before installing 3.3.0.1 patch set. This is an important step if it is a fresh install of 3.3.

Known Issues

The following issues are known to exist in Oracle PLA 3.3.0.1 for Agile PLM. These were deferred from this release, but may be fixed in a future release.

DISABLING THE LANGUAGE TABLE WHEN A DIMENSION TABLE IS CONFIGURED TO A DYNAMIC LIST

- **Issue:** Dimension that is pre-mapped out-of-the-box to an Agile PLM attribute does not show any data if the Agile PLM attribute's list is reconfigured to a dynamic list of object data type (For example, Item, User and so on) from the out-of-the-box configured standard list (For example, Category Type) in Agile PLM Administrator. This is because the dimension table in the BI Model (PLMA.RPD) does a join to lookup localized data from the LANG table, in addition, the Agile PLM does not maintain any localized data for a dynamic object based list, and thus it is not loaded into the LANG table. As result of this, some reports (such as reports using the Part Category dimension) do not show results. In order to address the issue, the LANG table lookup needs to be disabled for these dimensions in the Oracle BI Model (PLMA.RPD). You must disable the language data [LANG table] lookup in the BI Model in order for Dimension to show proper data.

Workaround: To disable the language data [LANG table] lookup in the BI Model in order for Dimension to show proper data, follow these steps:

1. Log in to the OBIEE Administration tool.
2. Identify the dimension that is configured to a dynamic list.
3. In the RPD navigate to the BMM layer, and open the dimension's **Logical Table Source**.
4. From the dimension's **Logical Table Source** remove the _LANG table. Select the **Column Mapping** tab and remap the Name column to the Name column in the dimension table.
5. Select the **Content** tab and remove the "WHERE" clause.

LIMITATIONS WITH AGILE FLEX ATTRIBUTES

- **Issue:** Agile PLM Data Mart supports up to 950 Agile PLM flex fields (enabled) in an Agile PLM class or its subclasses. The metadata and the mapping for 950 fields are available in the metadata table (ODM_FLEXCOLS_METADATA) and the data for these fields are available in the class-specific P4 table. The metadata and data beyond 950 fields are not available in the above-referred tables. In case a Class or its Subclass has more than 950 fields, Data Mart brings in the fields sorted by Class and Subclass Identifier.

Workaround: Set up Page 3 fields instead of flex fields to stay within 950 flex fields per class and its subclasses.

DATA POPULATES ONLY IN PPM_ACTIVITY_FS FOR USER DEFINED MAPPING USING SCHEMA ENHANCER

- **Issue:** If user-defined fields generated with Schema Enhancer are used for mapping, then the data is populated only into the PPM_ACTIVITY_FS table, after the ETL run is complete.

Workaround: Customization is required to ensure that data is populated in the logical tables.

Note For Agile Product Portfolio Management module, you cannot map a cascade list to any of the target list attributes.

SECURITY VULNERABILITY ISSUES

- **Issue 1:** The Agile database schema password is encrypted using a Java program that uses Symmetric Block Cipher whose implementation is based on Blowfish encryption algorithm, and the encrypted password is stored in a configuration file in the installed directory. The Java program randomly picks a 32-byte key from a pre-defined set of keys. This approach of key management and symmetric algorithm choice of library is not the most rigid encryption used and potentially poses security issues if any user is able to access the Java class files and the encrypted password stored on the machines on which Oracle Product Lifecycle Analytics software is installed. In general, this software is installed by IT professionals on machines within firewalls and these files are not generally accessible by other users.

Workaround: Make sure the machines and the directory on which the software is installed is not accessible by other users.

- **Issue 2:** PL/SQL source code delivered with this product is not obfuscated and poses security vulnerability if database schema is accessed by an impostor.

Workaround: Make sure schema user names and passwords are not exposed to users and the software installation location is not accessible by other users.

Related Documentation

Oracle Product Lifecycle Analytics documentation is available 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>.

- Oracle Product Lifecycle Analytics Installation and Setup Guide
- Oracle Product Lifecycle Analytics User Guide
- Oracle Product Lifecycle Analytics Data Reference Manual
- Oracle Product Lifecycle Analytics MDS Configurator and Data Mapping Guide

You can also find product documentation for Oracle Data Integrator and Agile Product Lifecycle Management on the [Oracle Documentation](http://www.oracle.com/technetwork/indexes/documentation/index.html) <http://www.oracle.com/technetwork/indexes/documentation/index.html> page.