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Agile Product Lifecycle Management

PLM Business Intelligence - Readme

v3.1

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CONTENTS

Copyright and Trademarks..... ii

Introduction..... 1

Key Features 1

 Management Areas 1

 Pre-built Dashboards..... 2

 Subject Areas 2

Known Issues..... 5

Known Limitations 7

Related Documentation 9

Preface

The Agile PLM documentation set includes Adobe® Acrobat PDF files. The [Oracle Technology Network \(OTN\) Web site](http://www.oracle.com/technology/documentation/agile.html) <http://www.oracle.com/technology/documentation/agile.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.

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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/technology/documentation/agile.html) <http://www.oracle.com/technology/documentation/agile.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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Introduction

Agile PLM Business Intelligence (PLM BI) is an interactive and comprehensive business analytical application that offers insight into your Agile PLM data. PLM BI contains set of role-based and functional dashboards that help you to quickly analyze key performance indicators, reports, and metrics that can spot trends and determine the current quality status of your products.

The Agile PLM BI contains the following components:

- Pre-built and Optimized Multi Dimensional Schema and Extract, Transform and Load (ETL) built on Oracle Data Integrator (ODI) 10g platform. This forms the core data foundation for interactive and analytical capabilities enabled in the application. ODI ETL process is used to load data into MDS from Agile PLM Datamart. For more details on the Multi-Dimensional Schema, refer PLM BI Data Reference Manual.
- Pre-built analytical repository built on Oracle Business Intelligence Enterprise Edition (OBIEE) 10g server. Repository consists of metadata about the Dimensions and Measures, which are required for analysis across different subject areas.
- Pre-built roles-based and functional dashboards. In addition, the Reports User Interface is also available. These are built on Oracle BI Answers and Oracle BI Interactive Dashboards.

You must install Agile PLM Data Mart 3.0.1 and required patches before you install Agile PLM Business Intelligence 3.1 application.

We recommend familiarization with the basics of Agile PLM application and Agile PLM - PQM, PC modules to better appreciate the features of PLM BI Analytics.

Note Agile PLM Business Intelligence 3.1 is available in English language only, but the application is enabled for translations to other languages.

Key Features

Agile PLM BI 3.1 provides new additions in the following categories of the product:

- Management Areas
- Pre-built Dashboards
- Subject Areas

Management Areas

Pre-built Dashboards, Reports, Roles, KPI and Guided navigation are available for the following areas:

1. Change Performance Management
2. Product Risk Management

Pre-built Dashboards

Pre-built Dashboards provided in Change Management are:

- Configuration Manager
- Change Analyst
- Change Orders
- Manufacturer Change Orders

Pre-built Dashboards provided in Product Risk Management are:

- VP Engineering
- Component Manager
- Component Engineer
- Commodity Manager

Subject Areas

The following are the Subject Areas within each Management Area:

Change Performance Management Area

The following Subject Areas provide the ability to analyze Volume, Cycle Time and Aging of Change process across key dimensions such as Product line, Category and Reason for Change. They also provide the ability to analyze the Sign-off cycle time by Sign-off users.

- PLM Change - Change Orders
- PLM Change - Mfr Change Orders
- PLM Change - Change Requests
- PLM Change - Stop Ships

PLM Change - Item Changes

This subject area provides ability to analyze affected items on Change Orders, Manufacturer Orders, ECR, and Stop Ship on key Item dimensions such as Product line and assess the impact.

Product Risk Management Area

The following Subject Areas provide the ability to analyze Product Risks:

PLM Product - Item

This Subject area provides the ability to analyze the Item Part Risk by key Item dimensions such as

Life Cycle, Product line and Part Family. It also provides the ability to analyze the volume of released items by their Life cycle, Product line and Part Family.

PLM Product - Item and AML

This subject area provides ability to analyze key Item measures such as volume by Manufacturer dimensions and Manufacturer measures such as number of manufacturer by Item dimensions based on certain rules. It also provides ability to analyze key risk metrics such as number of Manufacturer Parts per Item.

PLM Product - Manufacturer Parts

This Subject area provides the ability to analyze the Manufacturer Part Risk & volume by key dimensions such as Manufacturer, Life Cycle and Part Family.

PLM Product - Product Performance

This Subject area provides the ability to analyze and benchmark Items and Affected Items by Mean time between changes and failure. It also provides an ability to analyze Change and Quality incidents by key Item dimensions such as Product line and Type based on certain rules.

Known Issues

8289532

Displays ODBC Error in reports if both PC and PQM modules are not enabled in Datamart

Cause:

Some reports in Change Analytics access data from PC and PQM fact tables in MDS. The dependent data are not populated in MDS, if both PC and PQM modules are not enabled in Datamart.

Workaround:

Install Datamart with both PC and PQM modules enabled.

8299463

If any Multi-list attribute from PLM Manufacturer class is configured to a Defined or User Defined column in Manufacturer Part Subject Area in PLM BI MDS Configurator, the Reports using this field do not bring in the right values.

Cause:

PLM BI Analytics model joins the MFR_PART_ID column to the MFR_PART_F.MFR_PART_ID fact column. However, if any Manufacturer Multilist attributes is to be configured to the defined MFR_PART_COMMODITY field, the MDS ETL is populates Manufacturer ID data in the corresponding bridge table instead of Mfr Part ID data. Currently the PLM BI MDS Configurator does not restrict configuring Manufacturer attributes to these Mfr Part defined fields.

Workaround:

In PLM BI MDS Configurator, select one of the following Attribute Groups only when configuring any PLM attribute of Multilist type to defined/user-defined columns in Manufacturer Part subject area:

1. Mfr Part.Cover Page, Page 2, Page 3 Attributes
2. Mfr Part.Flex Attributes

8345092

Measure # Prelim Items is giving incorrect or proposed Lifecycle state with Lifecycle dimension.

Workaround:

Configure report in Answers as follows:

1. Add Pending Change filter and exclude Pending Changes = Yes"

2. Do not display the Filtered Value in Report.
3. You may want to exclude Revisions with NULL values.

Note:

You can expect Null revisions in the following scenarios:

- Manufacturing Change Order or Site Change Order on an Introductory Part
- Engineering Change Order with no proposed revision specified

8357511

PLM BI Configurator displays error if same attribute from PR, NCR, CAPA or Audit class's Affected Item tab is mapped to multiple user defined columns in respective Affected Item target fact table.

Cause:

ETL generates query based on the configurations. If same attribute is configured to multiple user-defined columns, the generated query does not use unique alias for each column.

Workaround:

In PLM BI Configurator, ensure that the same attribute is not configured to different target columns on the Affected Items tab of PQM subject areas, which include Customer Complaints, NCRs, CAPAs and Audits.

8096557

Age by Lifecycle aggregation rule as per the specification is sum across the Item dimension, Rev dimension and lifecycle dimension but currently its sum across only one dimension.

Cause:

OBIEE displays error when using the aggregation based on the dimension feature for more than one dimension. Bug (Bug# 8301048) has been logged against OBIEE. For more information on the current implementation see Item Age Calculations in the section 'Additional Notes on Item-AML and Product Performance Subject Areas' in *Agile PLM BI User Guide*.

Workaround:

Any aggregation rules over the current implementation can be applied in the reports on the measures.

Known Limitations

Work Flow Calculations

The Total cycle time calculations are calculated as Date of Workflow End State minus Entry date of Workflow Start Date except for 'Hold' which is calculated using Exit Date of Submit minus Exit Date of Hold.

Number of Mfr.Parts Measure

Number of Mfr Parts on more than one Item considers all Item associations of Mfr Part including those revisions that may not be currently active.

Affected Items count for PLM Change Subject Area

In PLM Change - Item Changes Subject Area, Number of Affected Items by Originate Date is applicable at Item Level only. Do not include REV Dimension for any analysis.

OBIEE Installation on Windows 64 bit machine

BI Reports display the following error in Windows 64bit machine:

```
State: HY000. Code: 10058. [NQODBC] [SQL_STATE: HY000] [nQSError: 10058]
A general error has occurred. 0xc1 [nQSError: 46029] Failed to load the
DLL C:\OBIEE\OracleBI\server\Bin\nqsdgatewayoci10g.dll. Check if 'Oracle
OCI 10G' database client is installed. (HY000)
```


Related Documentation

In [Oracle Technology Network http://www.oracle.com/technology/index.html](http://www.oracle.com/technology/index.html), the agile documentation page, <http://www.oracle.com/technology/documentation/agile.html> has the following documents on Agile PLM BI application:

- Agile PLM Business Intelligence Setup Guide
- Agile PLM Business Intelligence User Guide
- Agile PLM Business Intelligence Data Reference Manual
- Agile PLM Business Intelligence MDS Configurator Data Mapping Guide
- Agile PLM Business Intelligence Capacity Planning Guide

We suggest you refer to the documentation of the following products from Oracle Technology Network as they closely associate to Agile PLM BI application:

- Oracle Business Intelligence Enterprise Edition
- Oracle Data Integrator
- Agile Product Lifecycle Management

