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Executive Overview

The Oracle Metadata Management (OMM) solutions include two products:

- the Oracle Metadata Management for Oracle Business Intelligence (OMM4OBI)
- and the Oracle Enterprise Metadata Management (OEMM)

Oracle Metadata Management for Oracle Business Intelligence is a software package for metadata management of Oracle environments. Oracle Metadata Management for Oracle Business Intelligence includes the following metadata management features:

- Metadata Harvesting from Oracle technologies
- Metadata Configuration and Stitching
- Metadata Browsing, Search and Reporting
- Metadata Collaboration (external URL, tagging, comments and review)
- Data Flow Lineage & Impact Analysis
- Metadata Explorer (simplified metadata user interface for business users)

Oracle Enterprise Metadata Management is a software package for metadata management of multi-vendor environments along with support for data governance. Oracle Enterprise Metadata Management includes all features of Oracle Metadata Management for Oracle Business Intelligence with the following extra metadata management features:

- Metadata Harvesting from multi-vendor technologies
- Metadata Version and Configuration Management (change management)
- Data Model Diagram Visualizer and Navigator
- Business Glossary for Data Governance
- Semantic Lineage & Impact Analysis
- Semantic Mapping Editor
- Data Flow Mapping Specifications Editor
- Data Documenter

This whitepaper describes in detail some of the new features and capabilities offered in Oracle Metadata Management with the release of version 12.2.1.1.
Oracle Metadata Management 12.2.1.1

Metadata Manager:

Model version and change management
Version management in the repository has been optimized for storage and access. This new feature is achieved by taking advantage of the harvesting bridge’s new capabilities to compare the metadata of a newly imported model with a previously imported one in order to detect any change. The major benefit of this new feature is to dramatically reduce the disk space utilization in the repository by only maintaining necessary versions.

Configuration and version change management
New capabilities offering the ability to compare versions of configurations.

Metadata Explorer

Major redesign
Major Redesign of the Metadata Explorer User Interface on both the look & feel and actual capabilities, including:

Metadata Filtering and Reporting
New Search (or Browse) with Filtering capabilities on any attributes/properties. Also, there is a new choice for displaying search results; both as a classic Google like "LIST", or a new powerful "GRID" offering a spreadsheet like display of multiple attributes/properties at once. Such attributes/properties can be individually selected, reordered, and sorted, basically offering a full metadata reporting solution. The results can of course be downloaded as CSV/Excel files.

**Metadata Documentation**

This version includes numerous new fast and easy "in place" editing features to Rename objects, Edit Descriptions, and more, including glossary term reuse and extension, and reverse naming standards supervised learning and application.
The new Search/Browse GRID display also offers efficient editing with:

- Tabular editing of multiple objects at once such as Business Glossary Terms, Data Models Tables, or Table Columns
- Bulk change of multiple objects at once, where a search can return multiple objects (that can then be selectively subsetted) for which changes can be performed at once (e.g. Change the Security Threat Level to Orange to a set of tables at once)
Custom Attributes

There are major improvements in custom attributes (also known as User Defined Properties) as applied to objects of the Business Glossaries and Data Models. Custom Attributes are now common to the Metadata Management repository (e.g. Security Threat Level = [Red, Orange, Yellow, Blue, Green] and are therefore shared between Business Glossaries, Physical Data Models, etc. This provides a centralized place for maintenance (e.g. adding a new value: purple).

Custom Attributes can now have a default value (e.g. default value is green).
Custom Attributes now have a much wider scope to be applied at any level from a high level repository object (e.g. harvested Model, Data Mapping, Directory) to fine grain model objects (e.g. A Business Glossary / Term, and/or a Physical Data Model / Column)

Custom Attributes now have a security group associated to them (e.g. the Security Threat Level custom attribute may only be set by a custom Security Approved group).
There is a new AUDIT TRAIL for any changes in objects of Business Glossaries and Data Models, including who changed a given attribute and when.

Business Glossary

New Business Glossary editing capabilities are now available to the business users under the Metadata Explorer UI (includes tablet friendly in place editing, as well as HTML formatting of descriptions, etc.).

Physical Data Model

The Physical Data Modeler allows data documentation (including diagrams and relationships) for “existing” data stores, databases, data warehouse RDBMS, data lake /
big data such as HIVE. Note this does not constitute a full data modeling tool from scratch, such as creation of tables, domains, etc.

Architecture and Technology

Major database performance improvements

RESTful API

The Oracle Metadata Management (OMM) Web Services have been updated, they are now based on RESTful API technology (i.e. therefore removing any security vulnerabilities of the older Axis technology). Note this does not constitute a public SDK for the OMM Software.

Metadata Harvesting (Model Bridges) Improvements

Data Stores

This version provides major SQL Parsing improvements, especially in Stored Procedures and SQL scripts.

New Bridges

- Amazon Web Services AWS) RedShift Database import
- Apache Cassandra import (including from DataStax Enterprise)

Data Modeling

Minor bug fixes in popular data modeling tool bridges have also been made.
Data Integration (DI/ETL/ELT/DQ/MDM/EII):
Major redesign of all DI/ETL/ELT based upon a more universal DI metamodel which better supports the new generations of DI tools while reducing the volume of metadata. Consequently most DI/ETL/ELT bridges now import much faster (some of them twice as fast), without losing any DI/ETL/ELT design or data flow lineage details.

New Bridges
- Microsoft SQL Server Integration Services (SSIS) (Repository Database) import bridge
- Microsoft SQL Server Integration Services (SSIS) 2014 import bridge

Business Intelligence (BI/OLAP)

Improved Bridges:
- IBM Cognos Content Manager with PowerPlay Transformer import bridge major improvements to better support lineage for cubes
- MicroStrategy import bridge major improvements for scalability and protection against broken/corrupted reports
- Tableau import bridge major improvements to better support massive amounts of database or file connections (popular in self service BI)