

An Oracle White Paper
May 19th, 2015

Oracle Metadata Management v12.1.3.0.2 New Features Overview

Disclaimer

This document is for informational purposes. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described in this document remains at the sole discretion of Oracle.

This document in any form, software or printed matter, contains proprietary information that is the exclusive property of Oracle. This document and information contained herein may not be disclosed, copied, reproduced, or distributed to anyone outside Oracle without prior written consent of Oracle. This document is not part of your license agreement nor can it be incorporated into any contractual agreement with Oracle or its subsidiaries or affiliates.

Table of Contents

Executive Overview	3
Oracle Metadata Management 12.1.3.0.2	4
Data Model Diagram Visualizer	4
HTML5 redesign	4
New interactive search	5
New diagram auto layout	5
New dynamic layout of a diagram subset.....	6
Lineage Trace	6
Semantic Mapper	7
Business Glossary.....	7
Metadata Explorer UI:.....	10
Administration	11
Group based security model.....	11
Architecture and Technology	12
Latest Java Support.....	12
Metadata Integration (Model Bridges).....	13
Data Stores (RDBMS, XML, Big Data)	13
Improved Bridges.....	13
Data Modeling (DM)	13
New Bridges.....	13
Improved Bridges.....	13
Data Integration (DI/ETL)	13
Improved Bridges.....	13
Business Intelligence (BI/OLAP).....	13
Improved Bridges.....	13
General Features and Metamodel Changes	13

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 and 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

This whitepaper describes in detail some of the new features and capabilities offered in Oracle Metadata Management with the release of version 12.1.3.0.2.

Oracle Metadata Management 12.1.3.0.2

Data Model Diagram Visualizer

HTML5 redesign

The model diagram visualization is now based upon an HTML 5 based implementation which includes better scalability, performance and overall layout quality, and supports iPad and other tablets.

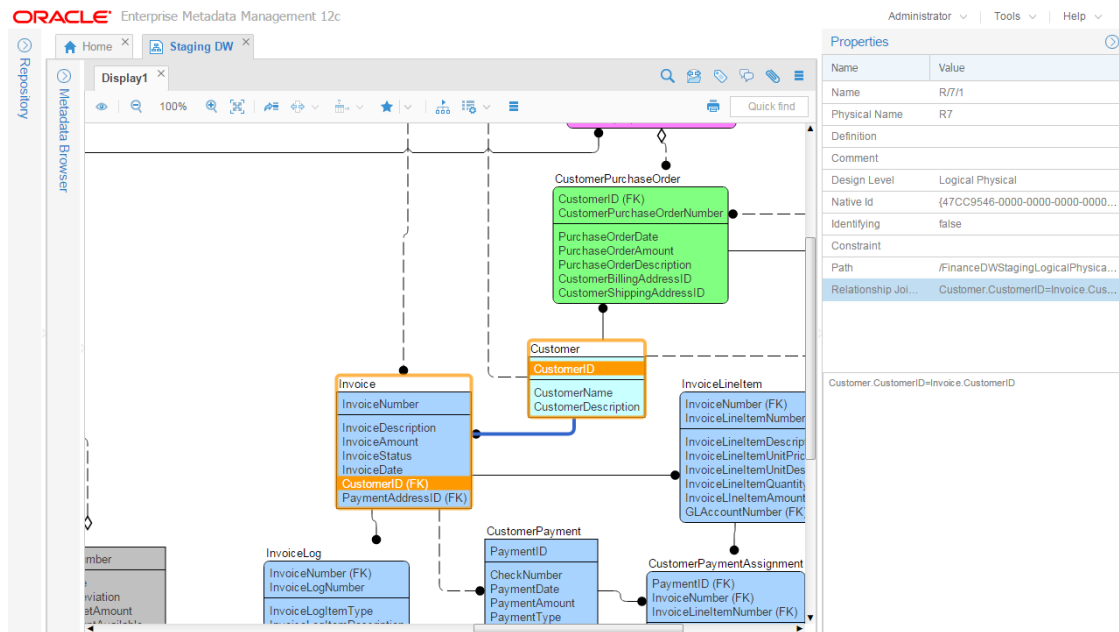


Figure 1 - HTML5 based diagram visualization

New interactive search

All model diagrams now provide a quick find feature that interactively provides highlight of partial matches and auto completion suggestions.

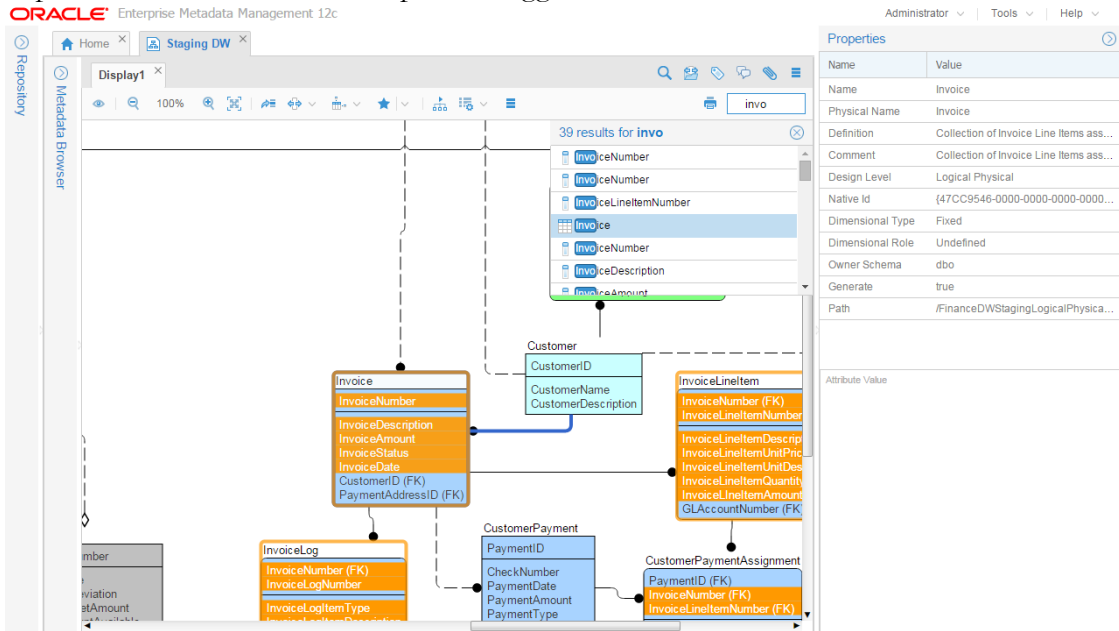


Figure 2 - HTML based diagram visualization

New diagram auto layout

One may now use an auto-layout feature to re-layout diagrams beyond what was offered in the original source tool

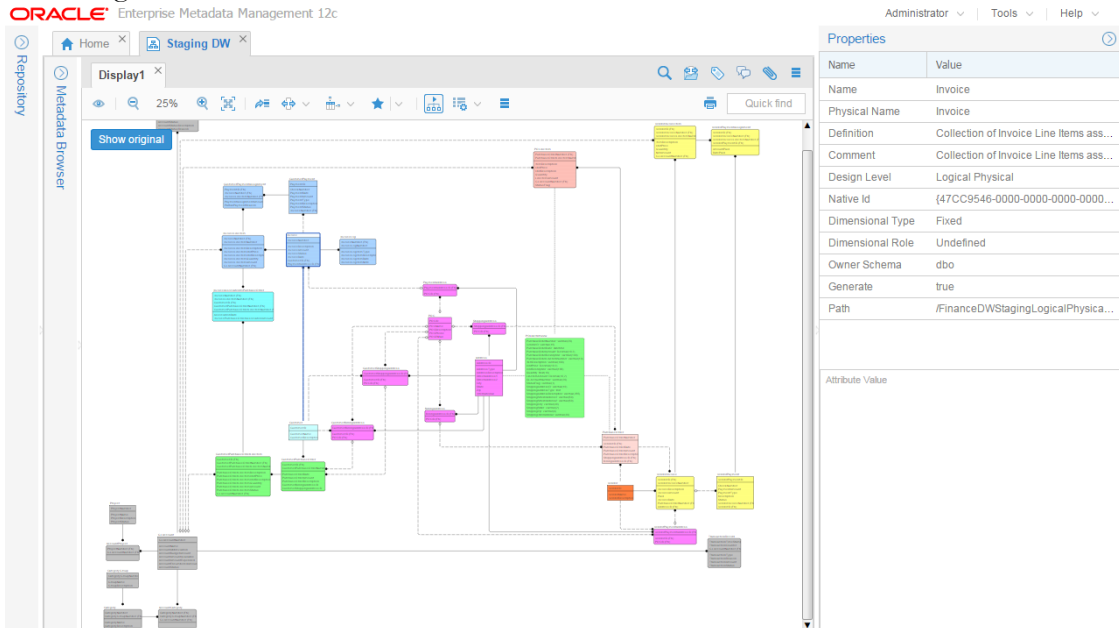


Figure 3 - Model diagram auto-layout feature

One may always return to Show Original.

New dynamic layout of a diagram subset

One may now limit the context of a diagram dynamically to focus in on specific entities or tables and their relationships. Simply select an entity or table and one can show a contextual diagram of all related entities with one or two levels of relationships.

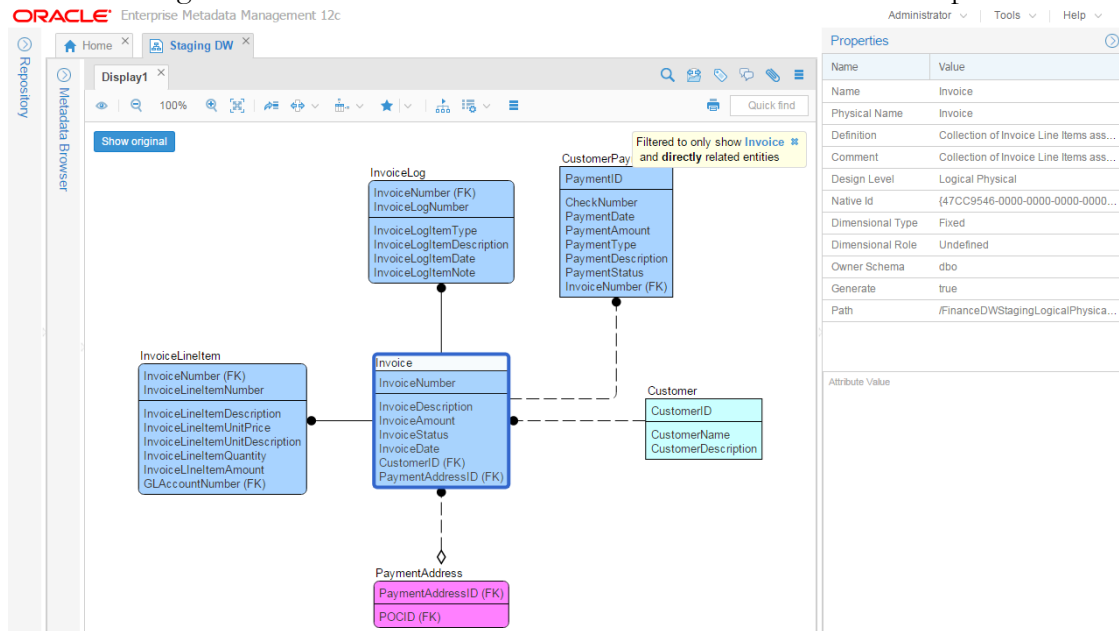


Figure 4 - Show related entities or tables

This can be very useful for large diagrams.

Lineage Trace

New support for HTML5 only devices like iPad and other tablets, (Flash will no longer be needed) for graphically tracing any data flow or semantic lineage (Lineage Analyzer), including the same improvements in scalability, performance and overall layout quality.

Semantic Mapper

The semantic mapper now allows one to map directly to business intelligence (BI) report metadata (such as a page of a workbook, a table or pie chart on page, or just the axis of a graph). This allows one to document precise items within a given report by associating (via these semantic links) business glossary terms (or conceptual model elements) to those report elements.

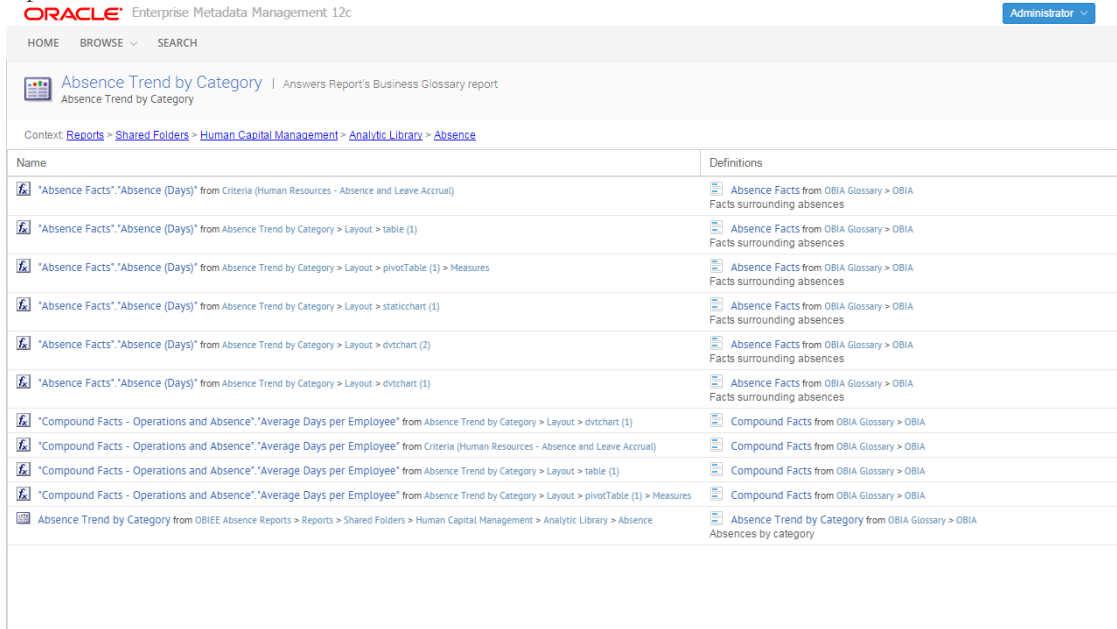


Figure 5 - Glossary report with terms semantically linked to reports.

In addition, the same support is now provided for semantically mapping to models within a multi-model server source.

Business Glossary

In order to ensure that the [business Glossary] is accurate, up-to-date, and available to all who need access to it and integrated properly with the rest of the metadata in the repository, OMM also provides a robust collection of Data Governance tools and methodologies. The business glossary now provides a very flexible workflow and publication process that may alternatively be quite sophisticated or quite simple depending upon one's needs. In addition, one may maintain any number of business glossaries, each with different workflow and publication characteristics.

The most complete workflow possible is in the diagram below:

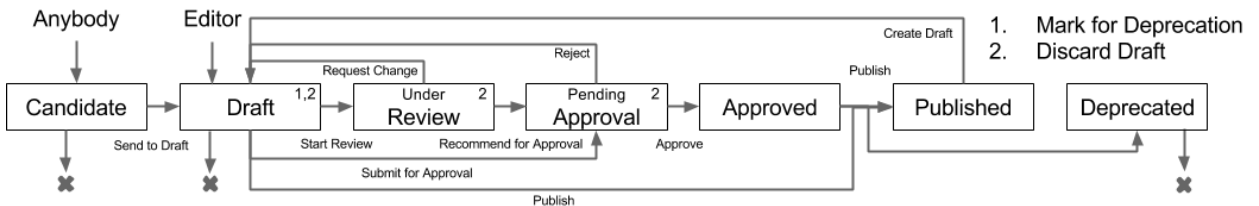


Figure 6 - Complete workflow process

You may enable the workflow when you create the glossary or after.

The business glossary provides a comprehensive yet flexible and even optional draft and candidate based edit/review/approve process (workflow).

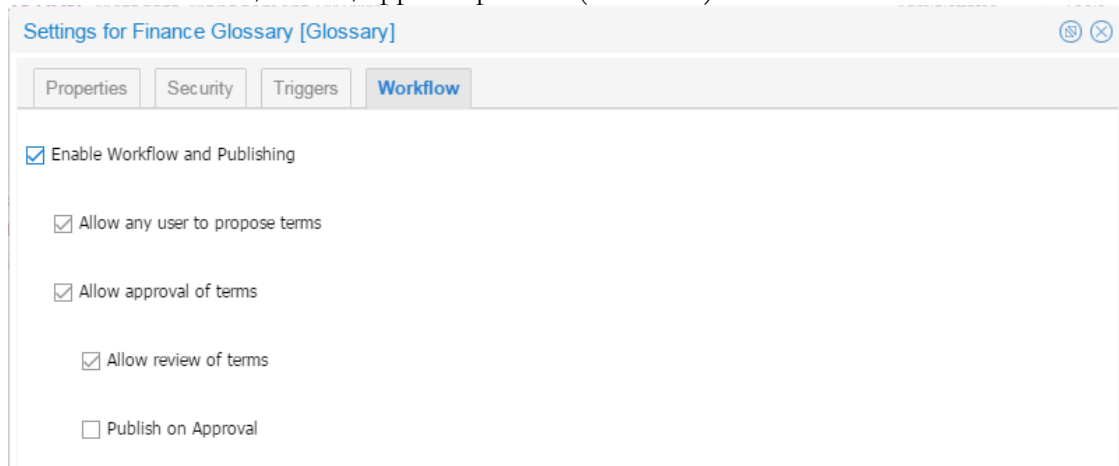


Figure 7 - Business Glossary workflow options

This workflow involves users with Editor, Reviewer or Approver responsibilities.

In addition, the process of publication is independent of the rest of the optional workflow steps. Publication of a draft of a term in the glossary means that this new version is now visible to users in the metadata explorer UI. In this way, one has full control over publication and dissemination of terms independently of where they are in the workflow process.

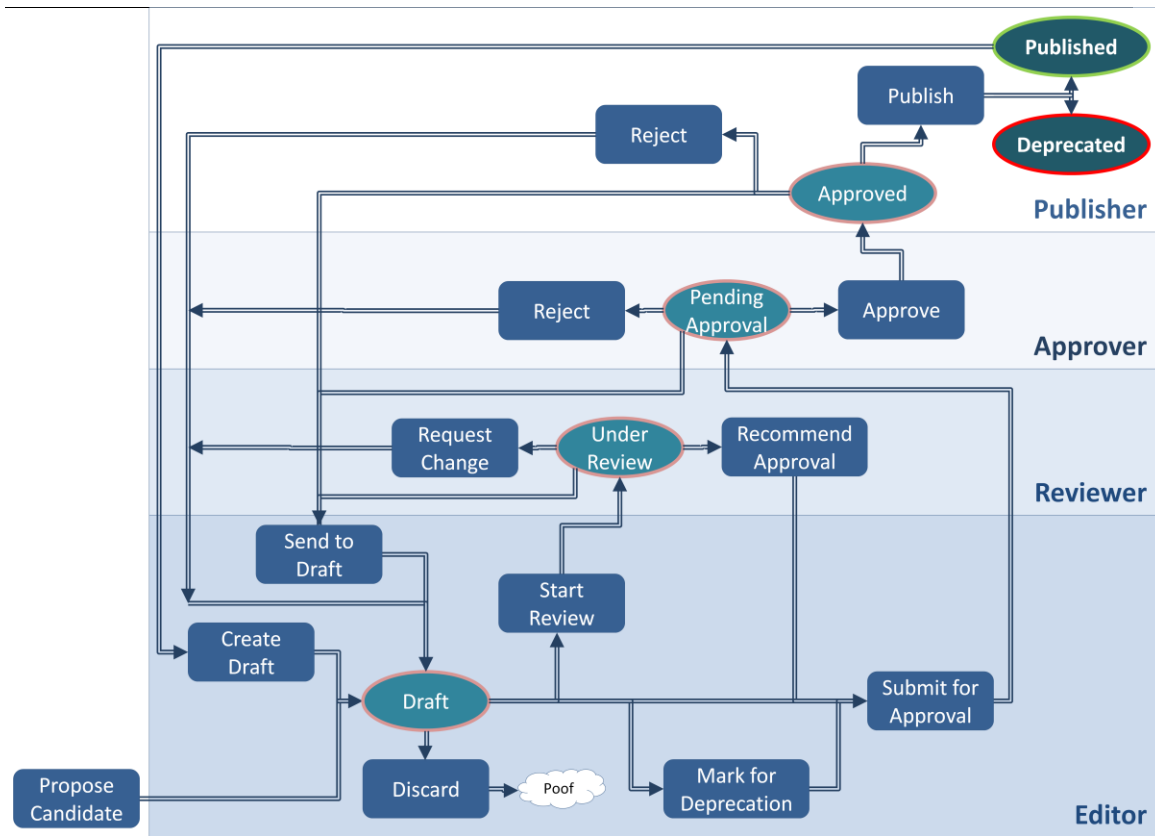


Figure 8 - Complete Workflow process with roles and workflow actions identified

In the above diagram

- The four workflow roles are the horizontal bands
- Activities conducted by each role (expressed in the metadata manager UI as workflow buttons)
- The process flow (arrow lines)
- Draft/Published/Deprecated terms are ovals.

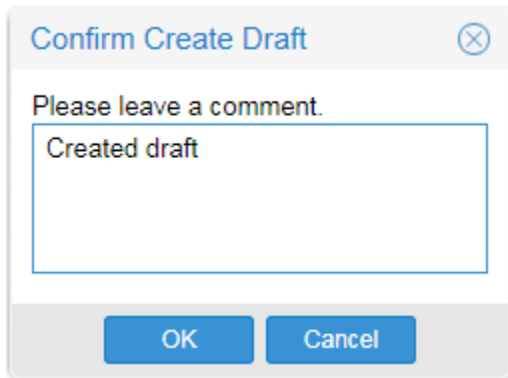


Figure 9 - Create a Draft

Workflow driven search criteria (dashboards) are available allowing one to efficiently organize terms and identify what requires action at any given time.

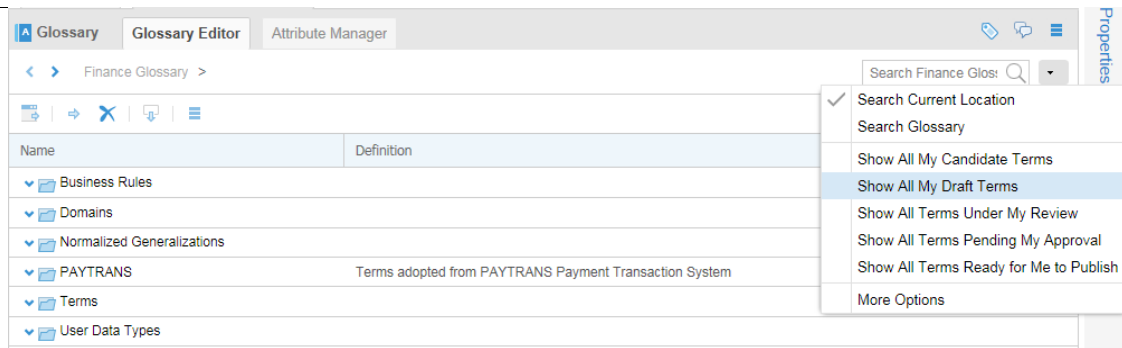


Figure 10 - Business glossary dashboards

Workflow action (transition) buttons provide guidance to users with appropriate permissions as to what are the next steps in the workflow. Also, all workflow actions are fully tracked and logged for review and history.

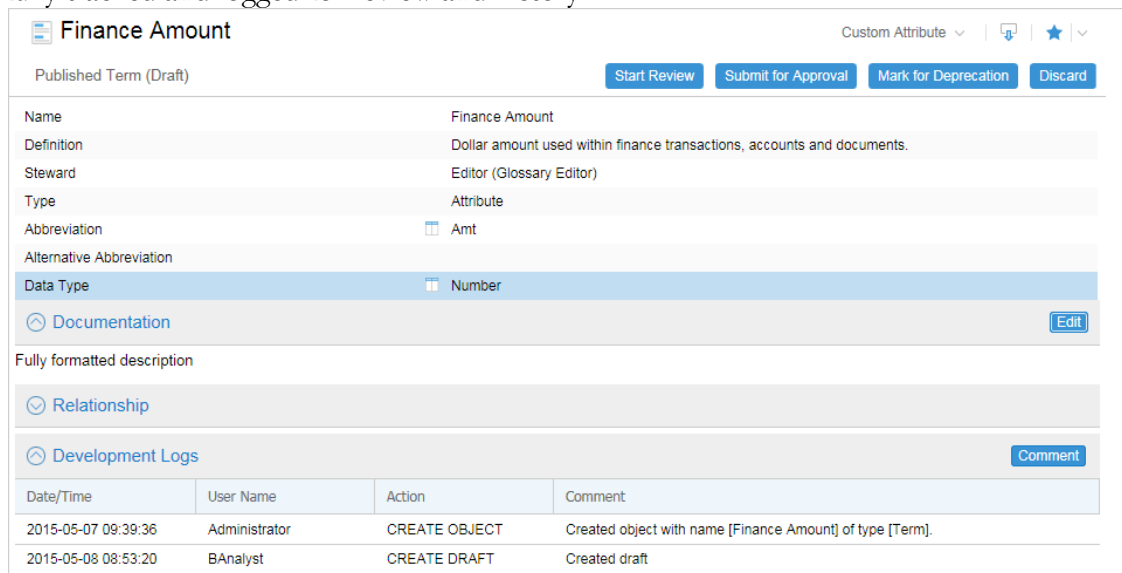


Figure 11 - Workflow action buttons and workflow process logs

Metadata Explorer UI:

To complement the new semantic mapping features to business intelligence reports, the metadata explorer UI has been enhanced to provide a new integrated presentation of business glossary terms related to any report object. In addition, from the metadata explorer one may add or link to glossary terms (with appropriate permissions) used for documenting a report.

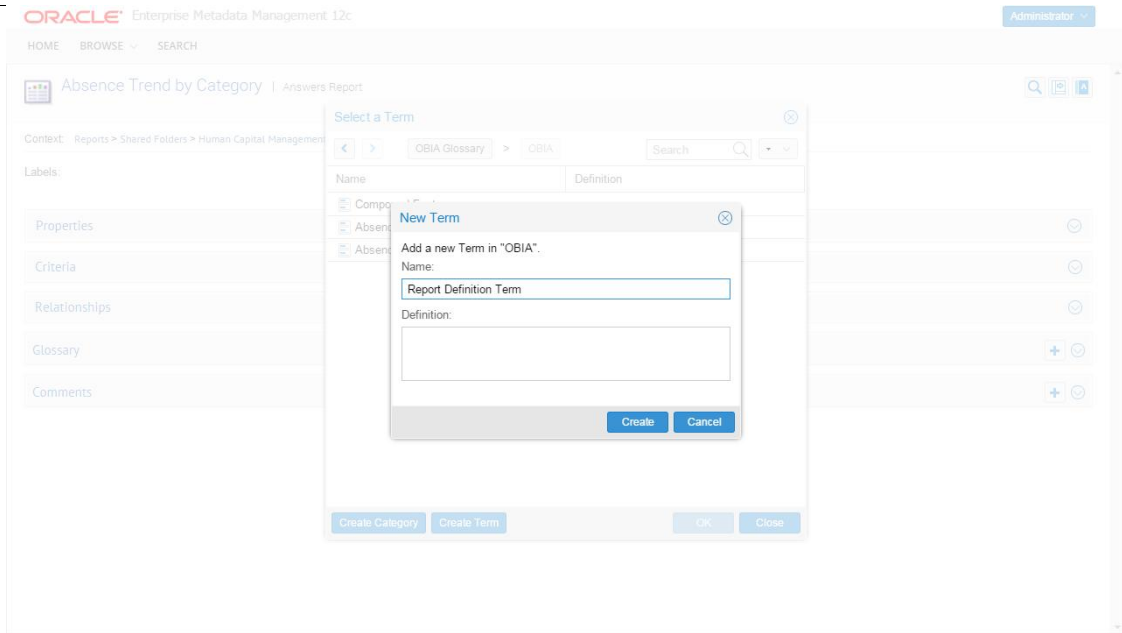


Figure 12 - Documenting a report In the Metadata Explorer UI

Administration

Group based security model

Users may now be members of groups and inherit those permissions (security roles) and workflow roles assigned or may be assigned the same directly.

Administration									
Administration	Users	Groups	Statistics	Log	Schedules	Servers	Attributes	License	System
Name	Users	Description	Steward	User Interface					
Administrators			false	Metadata Manager					
Business Analyst	BAnalyst	Tutorial Business Analysis...	false	Metadata Explorer					
Editors	Editor	Editors of the Glossary for ...	false	Metadata Manager					
Reviewers	Reviewer	Reviewers of the Glossary...	false	Metadata Manager					
Approvers	Approver	Approvers of the Glossary ...	false	Metadata Manager					
Publishers	Publisher	Publishers of the Glossary...	false	Metadata Manager					

Figure 13 - Groups

Administration									
Administration	Users	Groups	Statistics	Log	Schedules	Servers	Attributes	License	System
User Id ↑	Groups	Logged	Authentication Mode		Steward	Session Count			
Administrator	Administrators	Yes	Switch user authentication mode.		false	10			
Approver	Approvers	No	Yes	No	false	0			
BAnalyst	Administrators,Business Analyst	Yes	Yes	No	false	5			
Editor	Editors	No	Yes	No	true	0			
Publisher	Publishers	No	Yes	No	false	0			
Reviewer	Reviewers	No	Yes	No	false	1			
Native User - BAnalyst									

Figure 14 - Users

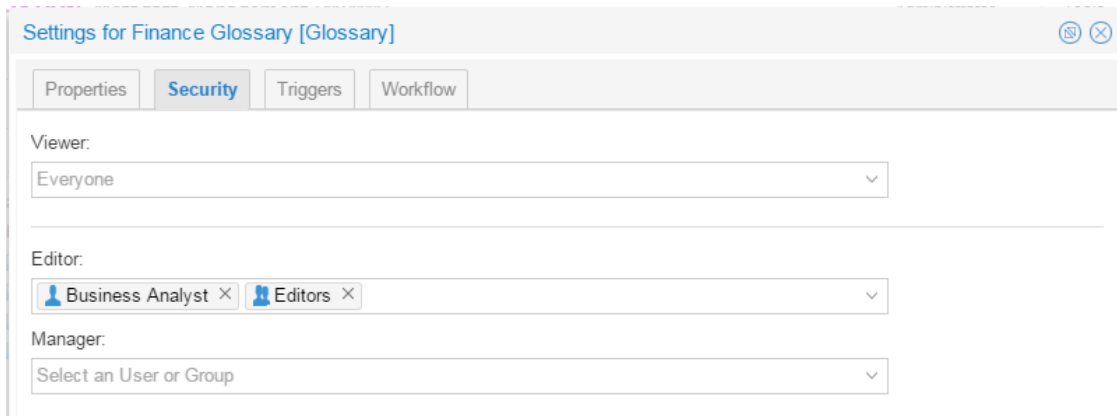


Figure 15 - Assigning permissions or security roles

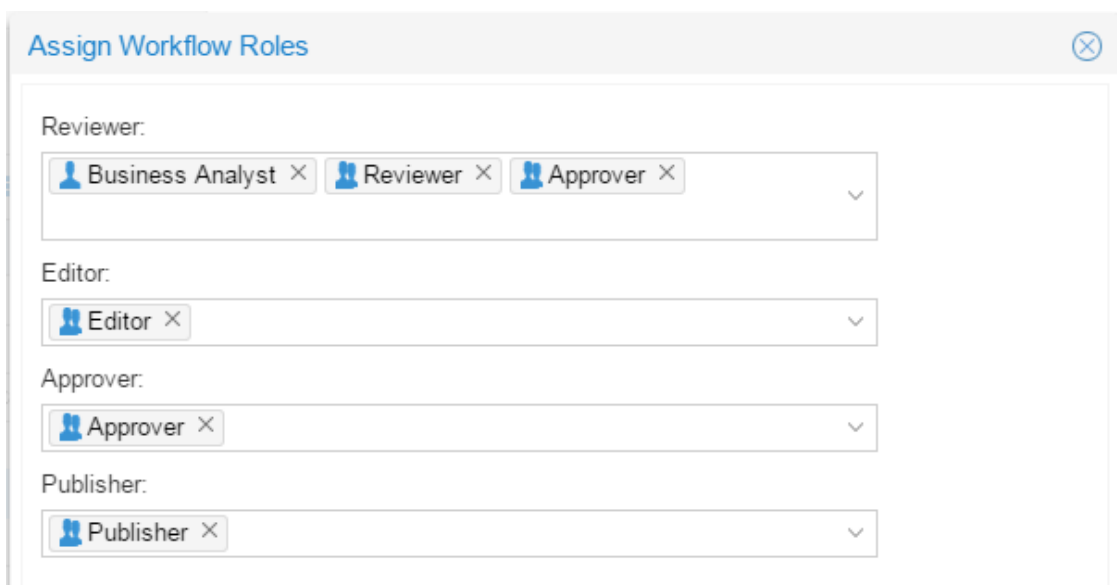


Figure 16 - Assigning workflow roles

Architecture and Technology

Latest Java Support

OMM is not developed with full Java 8 compliance (and is compiled with backward compatibility with Java 7). Java 6 is no longer supported.

Metadata Integration (Model Bridges)

Data Stores (RDBMS, XML, Big Data)

Improved Bridges

- Oracle JDBC import minor improvements such as support for external tables
- Database (JDBC) import bridge minor improvements in expression parsing

Data Modeling (DM)

New Bridges

- CA ERwin 9 Data Modeler import/export bridges support for version 9.6 including support for extended notes

Improved Bridges

- Data Modeling tool support for SQL Server 2014

Data Integration (DI/ETL)

Improved Bridges

- Informatica PowerCenter import bridge major improvements in scalability (64 bits) for large DI models, and ported to Java
- Microsoft SQL Server Integration Services (SSIS) import bridge major improvements including support for SSIS 2012
- Oracle Data Integrator (ODI) import bridge major improvements to better support flat files
- Oracle Warehouse Builder (OWB) import bridge major improvements to better support cubes
- Talend import bridge major improvements improving metadata coverage and lineage

Business Intelligence (BI/OLAP)

Improved Bridges

- Microsoft SQL Server Analysis Services (SSAS) and Reporting Services (SSRS) import bridge major improvements including support for SSAS/SSRS 2012
- Tableau import bridge major improvements in metadata coverage

General Features and Metamodel Changes

- Java 8 (compiled with backward compatibility with Java 7) compliance of MIMB (Java 6 is no longer supported)



ODI 12c New Features Overview
October 2013
Author: ODI Product Management

Oracle Corporation
World Headquarters
500 Oracle Parkway
Redwood Shores, CA 94065
U.S.A.

Worldwide Inquiries:
Phone: +1.650.506.7000
Fax: +1.650.506.7200
oracle.com



Oracle is committed to developing practices and products that help protect the environment

Copyright © 2013, Oracle and/or its affiliates. All rights reserved. This document is provided for information purposes only and the contents hereof are subject to change without notice. This document is not warranted to be error-free, nor subject to any other warranties or conditions, whether expressed orally or implied in law, including implied warranties and conditions of merchantability or fitness for a particular purpose. We specifically disclaim any liability with respect to this document and no contractual obligations are formed either directly or indirectly by this document. This document may not be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without our prior written permission.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. UNIX is a registered trademark licensed through X/Open Company, Ltd. 0410

SOFTWARE. HARDWARE. COMPLETE.