

Plug and Play with DMA Components

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September 9, 2014

Theme: Innovation / Challenges
Topic: Tool sets and innovations



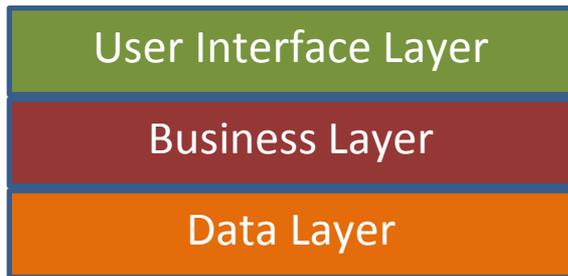
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Loosely Coupled



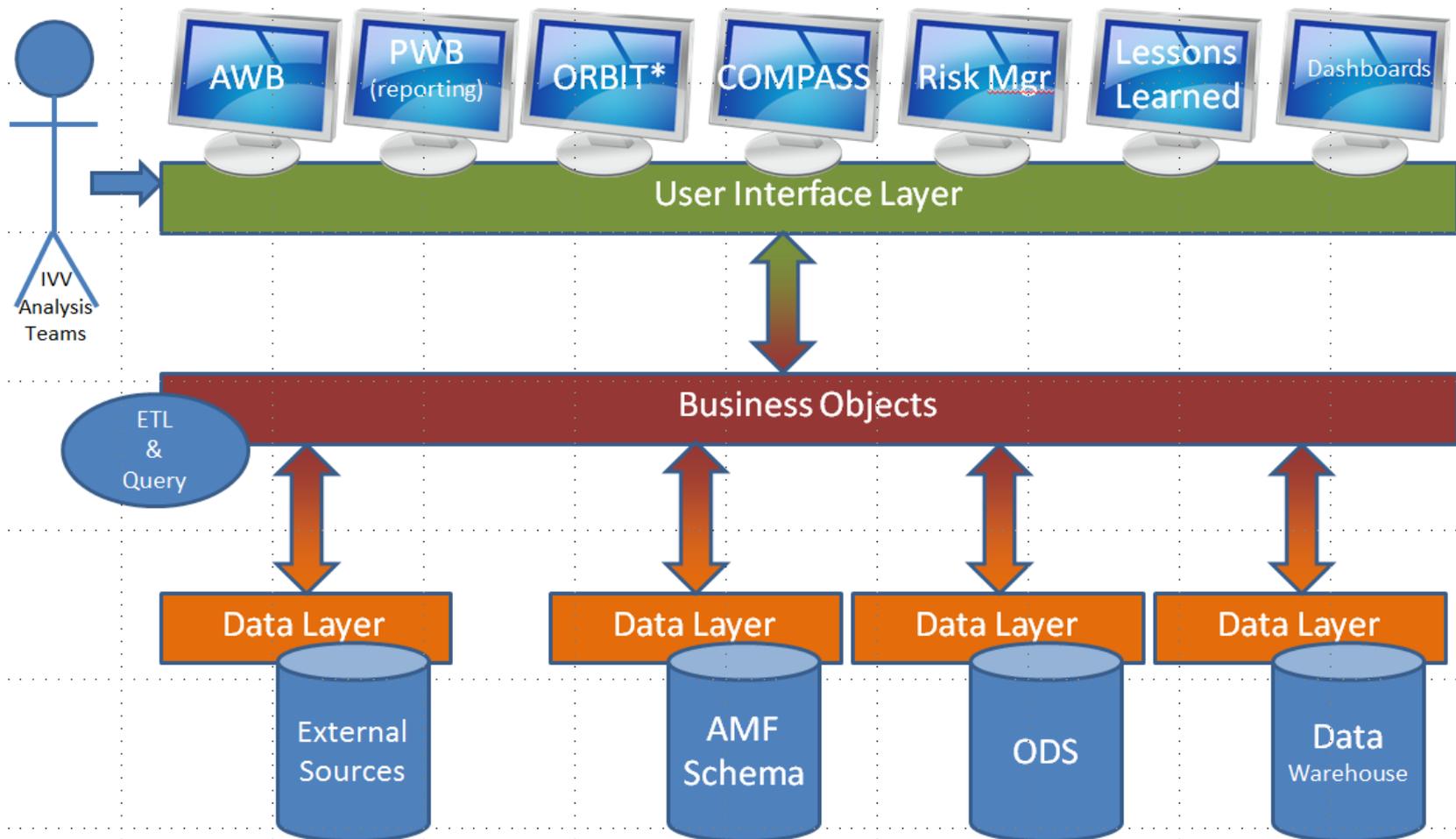
All of the concepts of the Framework are geared to promote modularity –

- The tiers are designed to separate the presentation, control, and storage of the data
- Patterns are used to maintain consistency throughout the system
- Objects are designed to stand alone so they can be used independently (Though their real power comes when they are combined)

This modular approach means you only have to use as much of the Framework as you need to get your job done.



Analysis & Management Framework – Modularity

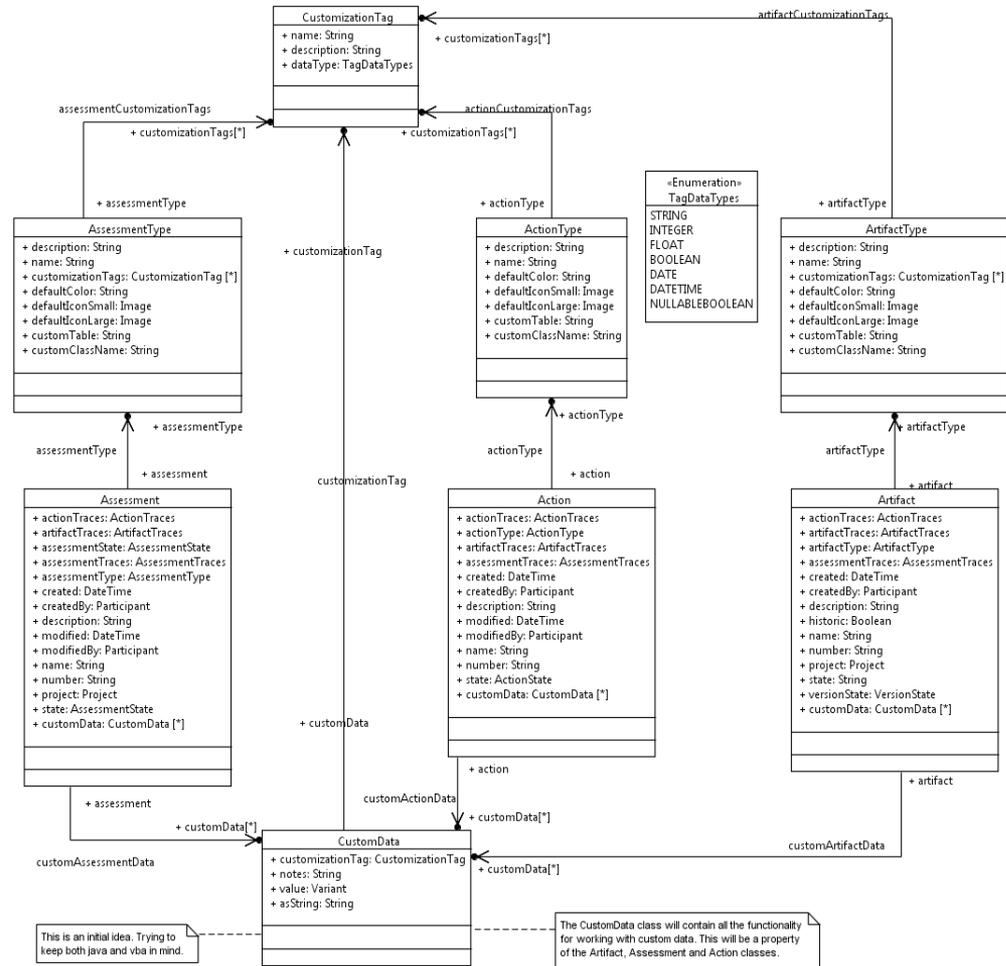


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Extensible

The AMF extension strategy makes it possible to capture and incorporate specialized records for any Action or Assessment activity

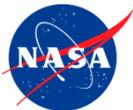
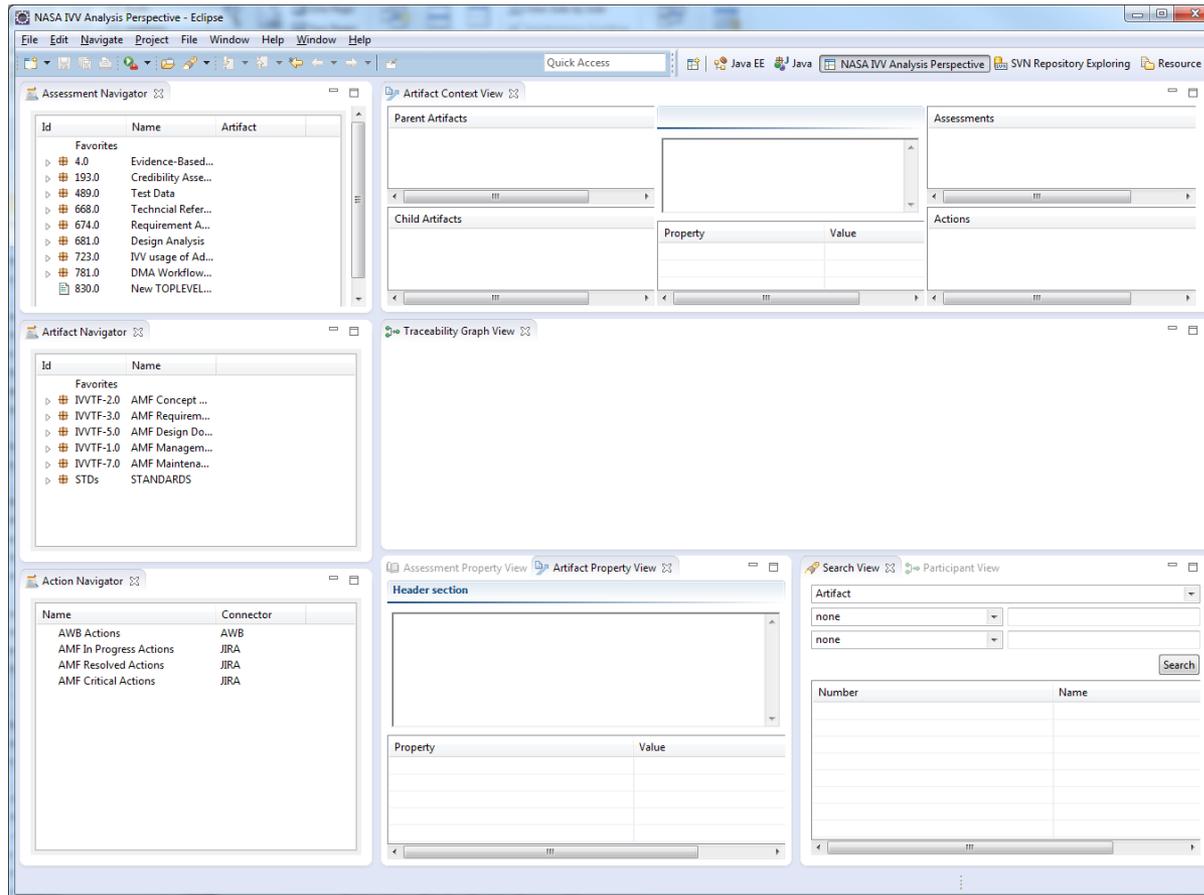


■ Components

- User Interfaces
 - AWB
 - JIRA
- Business Layer
 - AWB
- Data Layer
 - SQL Server
 - JIRA
 - External Data Imports
 - DOORS
 - MS Office
 - PDFs



■ Demonstration of Eclipse Plugins



■ Master Library

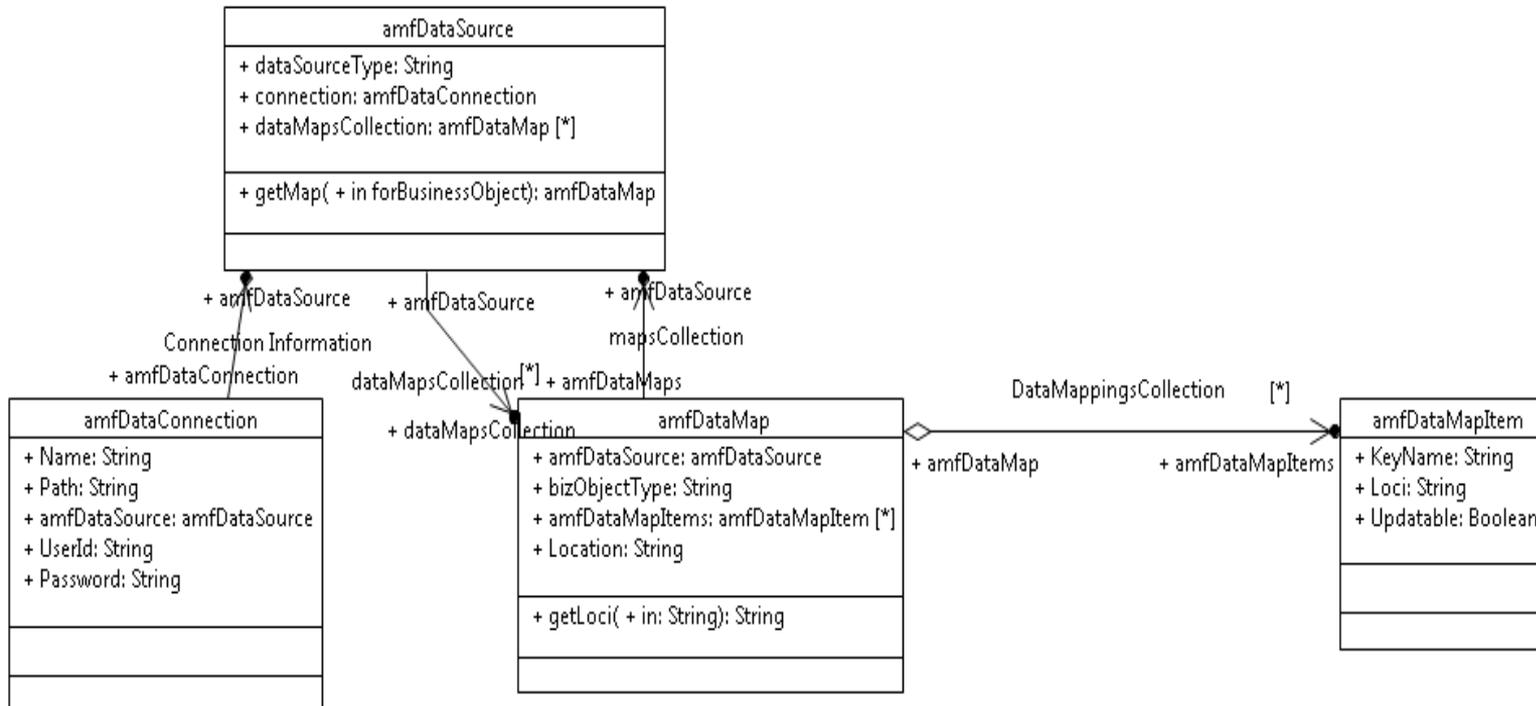
- AMF Core Components
 - Project Domain
 - Participant Domain
 - Artifact Domain
 - Assessment Domain
 - Action Domain
 - Traceability Domain
- Data Layer Components
 - Separated by data storage technology
 - Individual modules for different types of business object
- User Interface Components
 - Complete Extraction, Transformation and Reporting applications for:
 - Word
 - Excel
 - Useful macros for MS Office component interactions



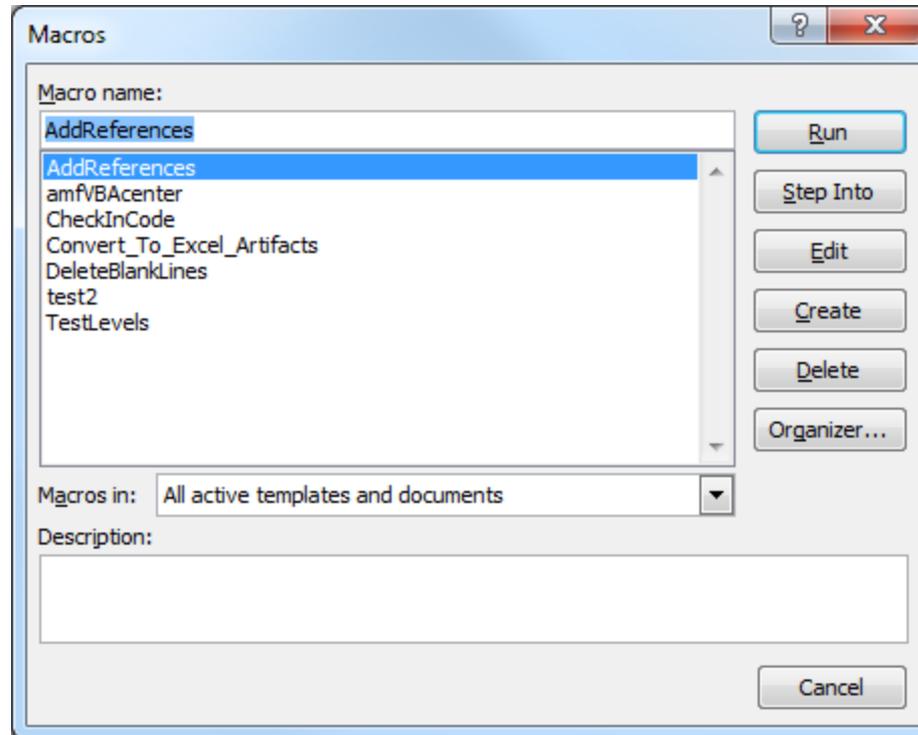
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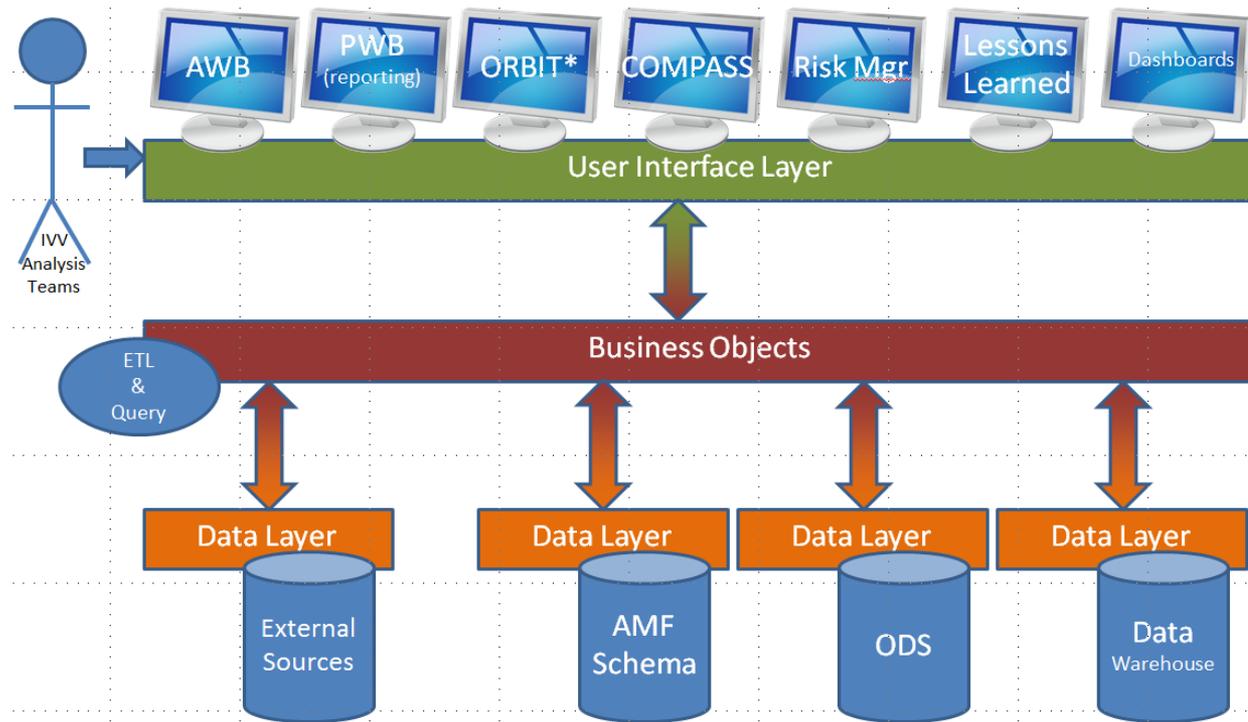
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- Excel Demonstration



- Excel Demonstration





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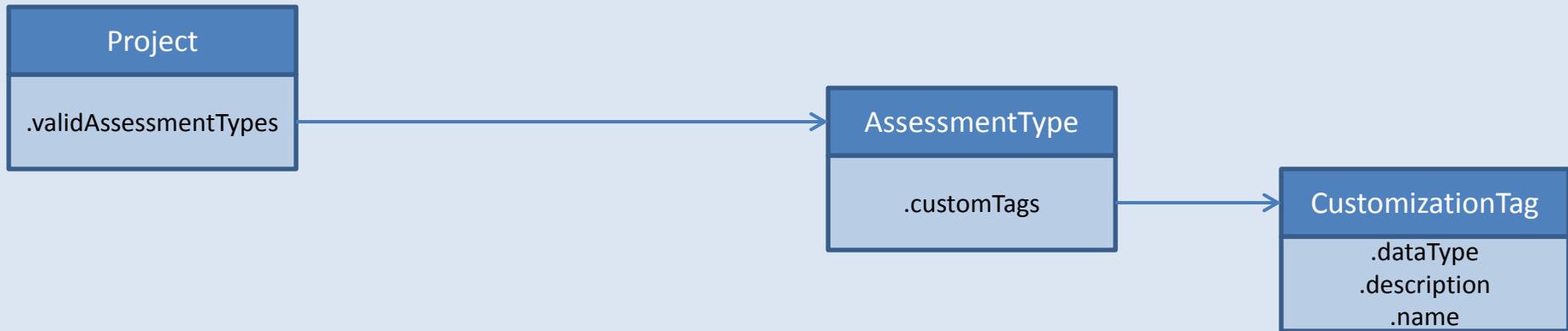


Assessment Customization Definition

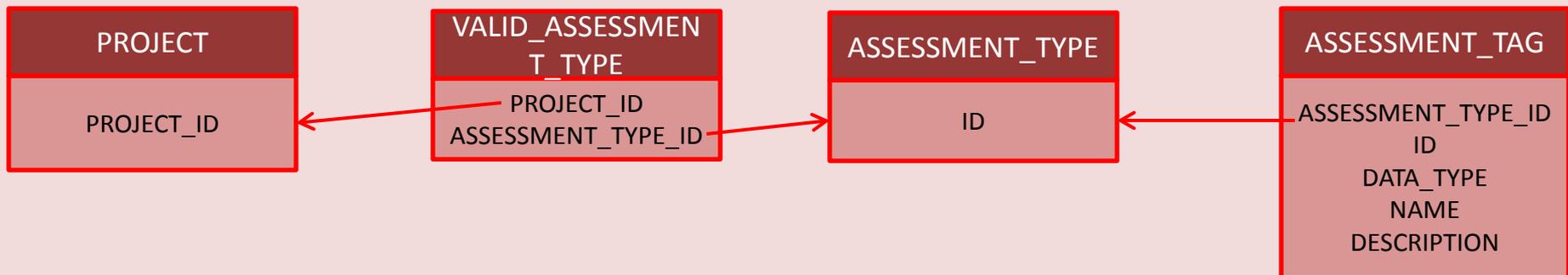


IV&V Program

AMF Classes



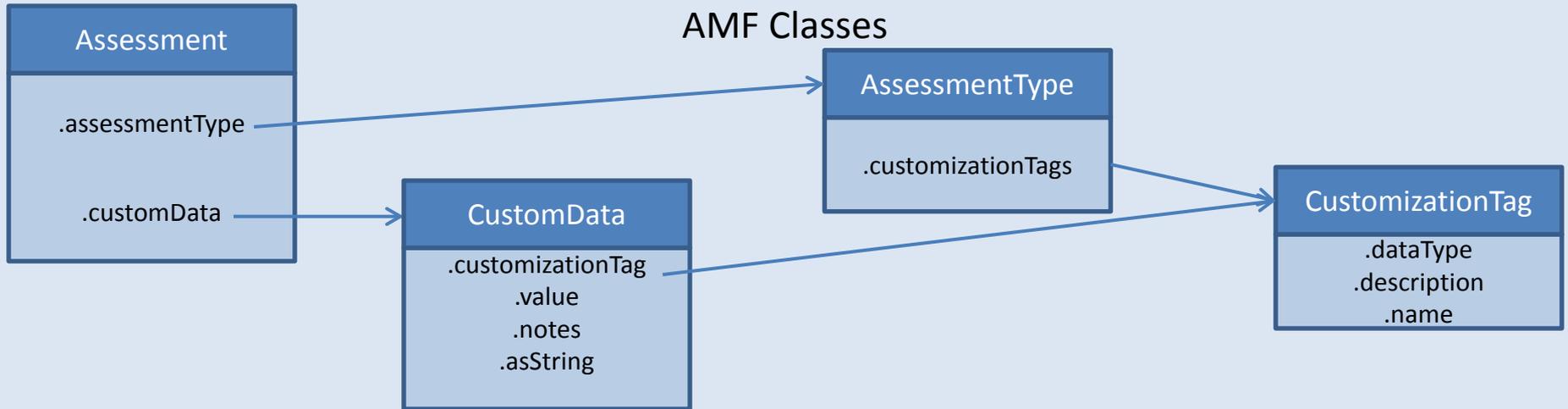
AMF SQL Tables



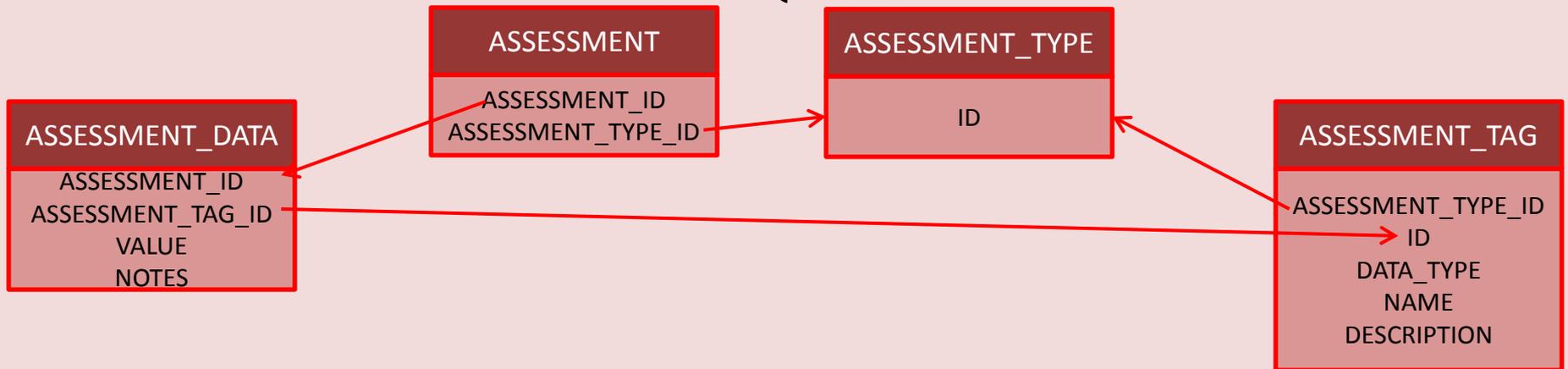


Assessment Customization Usage

AMF Classes



AMF SQL Tables



Abstract

The IV&V community is currently unfamiliar with the wealth of analysis components being made available via the DMA effort which includes Data Warehouse and Analysis & Management Framework.

Component based architectures are a widely accepted industry practice. The DMA effort attempts to make existing and new capabilities available via the following components:

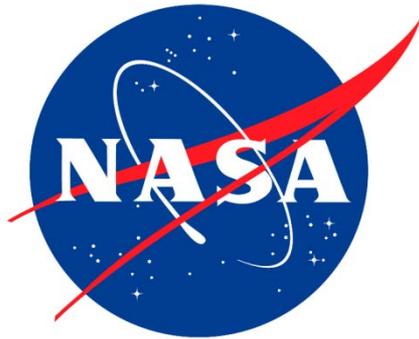
User Interfaces: Analyst Workbench, Project Workbench, COMPASS, Risk Manager, Organizational Services, ORBIT, Reporting and Scheduling Tools (MSO Word & Excel)

Business Objects: The building blocks are the projects, participants, actions, assessments, artifacts, tracing information

Data Sources: SQL Server (e.g. AWB, PWB, COMPASS, Risk Manager, Organizational Services), DOORS, JIRA, Excel, Access, Integrity, and artifact documentation.

Implementation platforms to be discussed include: Eclipse, MS Office, Web Services
After attending this workshop, analysts and managers will better understand the range of analysis components being rolled out to all IV&V Projects by FY 2016, and their potential project applications.





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