

AnalytiX Mapping Manager

Release Notes 5.2

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Data and data mappings play a critical role across data integration projects and in particular industries which are heavily regulated such as financial services and healthcare. AnalytiX Mapping Manager meets the industry's auditing and compliance requirements by automating and managing the data mappings involved in data integration projects and complying with industry regulations such as SOX, Solvency II, International Basel and HealthCare PHI and SPI regulations etc.



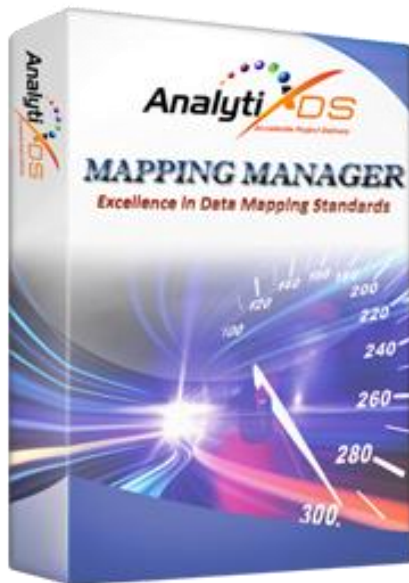
- No evidence of any effective product solution or vendors in the pre-ETL data mapping sector of data integration. AnalytiX is the first enterprise solution to automate the data mapping process with its industry leading and purpose built Mapping Manager™ Solution
- While there may be some cross-over in the space, no other technology vendor has brought together the degree of control, standardization, collaboration, repeatability and auditability to enterprise-wide mapping specification development & administration.
- AnalytiX takes a 100% agnostic approach to integrating with ETL/ELT provider to auto-generate code for leading ETL suite providers
- The patent-pending proprietary methods, structure, functions, front-end features and metadata capabilities of the product overcome longstanding and common critical path weaknesses in what is a broken, adhoc, unplanned, failure-prone stage of any integration exercise.
- The product enables efficiencies in process, people, and policy/rights management, not only in the specification development part of integration but also in downstream work flows in coding, ETL/ELT, testing and implementation. This is accomplished by speeding, tightening and improving those deliverables.
- The product was designed as a complement to integration tools and ETL suite providers, ensuring that clients can synchronize/align/leverage existing tool sets, DB platforms, development routines, and network topologies while using Mapping Manager to standardize the source to target mapping processes.
- The product links all integration projects, project teams, project roles and functions across the entire enterprise IT organization.
- The product enhances accountability among project resources, enhances performance management and project delivery for supervisors, and creates visibility for upper management.

Product Summary and Business Problem

AnalytiX Mapping Manager is the first enterprise software in the integration industry which brings standards, management and collaboration to one of the remaining areas in the industry which is untouched by product, pre-ETL Data Mapping Specifications. ETL, QA, profiling and requirements phases all have their tools, but there are none of any consequence in the mission-critical, error-prone pre-ETL data spec/mapping phase of large implementations. MS Excel currently occupies the space, but does it very poorly and the mapping Specs cannot be managed or versioned appropriately for system integration projects. With the onslaught of products servicing integration, it's hard to understand why this gap persists, but it does. We see it as the Achilles Heel of integration and the last area of the ETL Suite of tools that is yet to be integrated with the ETL tool vendors.

AnalytiX Mapping Manager brings standards, control, auditability, traceability and versioning across all integration projects at the enterprise level. AnalytiX Mapping Manager takes an ETL agnostic approach to integrating mapping specifications with ETL tool providers (like Informatica, IBM Information Server -formerly known as Ascential DataStage, Abinitio etc) to auto-generate the first level of ETL Jobs.

About AnalytiX



AnalytiX Data Services is an international software and technology services company specializing in the development of 'agile tools' for the data integration industry which enable organizations to accelerate delivery and operate more efficiently while lowering costs of delivery. AnalytiX develops differentiable and value added technology products for the data integration industry which aim to close capability and functionality gaps from larger software giants in the industry such as IBM and Oracle in order to enable faster delivery and lower costs of integration projects

About Mapping Manager

AnalytiX Mapping Manager (AMM) is a part of the "Agile Tools Movement" for the data integration industry, enabling customers to accelerate delivery by automating manual processes surrounding the data mapping process of data integration projects.

In 2006 AnalytiX introduced Mapping Manager as the industry's first Enterprise Solution to automate and solve the source to target mapping (STM) problems of the data integration projects.

Mapping Manager is 100% web based and metadata driven and is used to define and drive standards across integration projects within an enterprise, enable data & process audits, improve data quality, streamline downstream workflows, increase productivity (especially over geographically dispersed teams) and give project teams, IT leadership, and management visibility into the 'real' status of integration projects across the enterprise.

Mapping Manager is a complement to existing products and allows the business analyst to dynamically build mapping specifications (via drag and dropping of metadata from the metadata browser) which become clean, approved requirements/ inputs to ETL developers. These specifications are then versionable, trackable, auditable, and repeatable throughout the lifecycle of integration projects. Mapping manager is rich in function. Its advanced built include Impact analysis and data lineage views across the enterprise, upload client SDM and other documentation (at the project, system and individual mapping specification levels for compliance and tracking), defines mapping rules & standards, analyzes upstream and downstream system impacts, and features a metadata browser which enables uploading of source system data tables from all DB platforms (at the catalog and metadata level). In addition, the tool carries special handling instructions for sensitive data requiring encryption such as SOX, Solvency II, International Basel Committee and Healthcare HIPPA, PHI SPI and other governance regulation surrounding data governance.

Code Generator and Plug-in Component Architecture

Once the mappings are considered version and approved the mappings are then exportable to leading ETL/ELT vendor suites and can auto-generate ETL jobs for leading tool vendors such as Informatica, IBM DataStage, Microsoft SQL Server SSIS and others. The Open repository enables custom and third party applications to directly integrate with our open repository and at the application interface layer to build custom extensions for application to application integration or use out of the box plug-ins for Wiki Integration and others

The Mapping Manager Solution is 100% web enabled (no fat client) Java Eclipse based and the GUI features a full range of excel like features and drag and drop functionality to accelerate the mapping process. Mapping Manager complements existing integration products and vendors, and is non-disruptive to existing team structures, role or responsibilities. The product was designed and developed to not only fill the GAP of having the ability to manage and version mapping specifications, but to also streamline and improve current process and drive standards around the entire process and across the enterprise for all integration projects

****NEW** Wizard Functionality with Schema Pre-selection to scan metadata**

Introducing the new metadata scan wizard with pre-selection of database schemas to help scan from selected schemas with ease. Also new is the availability of a table list tree for selective import of metadata i.e. pick the tables that you need to import vs all tables.

****NEW** Scanner to access metadata from SAP systems**

Mapping Manager has been enhanced with an SAP connector to directly connect to SAP systems and scan metadata.

CATfX enhancements

1. Integrated Run with Optional Dialogs
2. Groovy support
3. Changed Editor to Code Mirror to support enhanced features

Mapping Manager has been upgraded to the DHTMLx 4.0 platform

Benefits:

- Increased Performance Management using latest dhtmlx version
- Faster Web Application with increased loading times across the application
- Faster loading times for Project/Mapping Tree and Metadata Trees

Previous Releases

V5.1:

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1. Certification on Java 7 and Tomcat 7 versions.
 2. CATfX Module

- a. Support for Groovy programming language
 - b. Ability to create custom form objects to handle dynamic query inputs
 - c. Sorting Order for CAT templates
 - d. User Friendly CAT Editor
 - e. Error Highlighting and code folding in new CAT editor
 - f. Text wrapping and auto format features
3. New Look AMM Reports
- a. Out of the box reports in AMM have been enhanced with a new look GUI colour scheme.

V5.0:

1. **NEW:** Business Oriented view of System Manager module
 - a. Manage Data Dictionaries
 - b. Instant access to Lineage and Impact Analysis
 - c. Global Search accessibility to entire metadata repository
2. **NEW MODULE** – Reference Data Manager module
 - a. Standardize Reference Data across Enterprise
 - b. Streamline maintenance of Reference Data Sets
 - c. Improve Data Quality Confidence
 - d. User friendly Grid capabilities to maintain custom Reference data
3. **NEW MODULE** – Code Automation Templates Framework (CATfX)
 - a. Standardize Code Gen Templates across Enterprise based on methodologies and best practices
 - b. Streamline Code Generation process
 - c. Reuse and leverage enterprise Code Gen Templates
 - d. User friendly GUI for Code Generation. Instant preview of output formats
4. Customizable User GUI Themes
5. Enhanced Lineage Analysis Capabilities
6. New Merge feature to Branch and Merge mapping specifications
7. Extended ETL Integration to support Source/Targets as Flat File Objects in Informatica.
8. Addition of 15 User Defined fields at Subject Area Level
9. Addition of 40 User Defined fields at Mapping Level
10. Extension of Data Lineage and Impact Analysis Reports to Appended Columns
11. Addition of "Mapping State" and "Mapping Sub-State" at the Mapping Level
12. Folder structure strategy for Code Mappings
13. Import of Multiple Legacy Code Mappings
14. User restriction across Categories
15. Detailed permissions list for user access to module features
16. Versioning and Publishing of Codesets and Code Mappings
17. Copy and Pasting of Codesets from one Category to another
18. Global Search functionality across Codeset Manager
19. Compare-To utility for Codesets and Code Mappings to highlight differences
20. Folder structure strategy for Code Mappings
21. Import of Multiple Legacy Code Mappings
22. User restriction across Categories
23. Detailed permissions list for user access to module features

V4.5:

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1. Global Search Functionality across Mapping Manager
 2. Mass update of source/target data across Mapping Specification
 3. Quick Publish of Mapping Specifications
 4. Multi Browser Compatibility
 5. Option to change user password has been added to user settings

Release Manager:

6. Integration of Release Manager with Mapping Manager
 7. Integration of Release Manager with Codeset Manager
 8. Facilitate Migration of Release objects between Releases
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V4.4:

Enhancements:

9. Customization of User Roles and Privileges
10. Contribute to AMM by requesting new features
11. Shortcut to the AnalytiX Forum from AMM and post new queries
12. Customizable Export of Mapping Specifications to Excel
13. Auto Syncing the Mapping Specification Metadata to the Metadata repository
14. Extension of Informatica ETL export capabilities
15. Export mapping specifications into an Analytix proprietary XML format and import mappings from the XML format
16. Multiple Upload of Legacy Excel Mappings
17. Capture Change Description & Version Label while Base-lining mapping specifications
18. GUI Themes and Progress Indicators
19. Project Specific Transformations (Business Rules)
20. Extension of the Change Log feature
21. Customization of Mapping Name display
22. Customizable User defined mapping specification tabs
23. Preview option for XSD metadata
24. Enhanced the ERwin metadata scanning capability
25. Login Account Details Retrieval method
26. Renaming of Subject Areas
27. Configuration of Email Settings
28. Enhanced capabilities of the Lineage Analyzer
29. Filtering Capabilities in GUI Grids
30. New GUI interface to update metadata attributes at the system level
31. GUI Interface to update Language & Properties
32. AMM architecture has been revamped to enhance the application performance making it more robust and dynamic.
33. AMM is now certified on Websphere Application Server (version 7.x or higher)
34. Codeset Manager - Auto Mapping of Source to Target Codes

Known Issues Addressed:

Mapping Manager:

- 1.Unable to scan metadata from MySQL database.
- 2.Views scanned from Teradata database not expanding in the metadata browser
- 3.Issue when scanning metadata from an Oracle database when selecting Synonymns
- 4.Dynamic Excel Upload process fails when trying to upload a mapping specification from Excel

V4.3:

Enhancements:

Mapping Manager Solution:

1. Application Plug-in Framework - *Allows custom built application and third party applications to be integrated directly with Mapping Manager user interface and integrate with the metadata and data mapping repository. Available out of the box plug-ins will include Built In Wiki Pages, Automated Testing Framework and Discovery BI Module to access and analyze the repository metadata*
2. XSD metadata scanning support
3. ER Studio/CWM format metadata scanning support
4. Vertica Database metadata scanning support
5. Datastage Forward and Reverse Engineering capabilities
6. Reverse Data Lineage Analyzer
7. Enhancement to Excel Metadata upload with option to update/delete existing tables
8. Mapping Grid – Column width specification according to user customization
9. Full screen feature for Mapping Spec grid
10. Mapping Frames customization per user preference
11. Mapping Comparison Report – New Report format + Excel export
12. 5 User Defined fields (flex fields) added to table level metadata attributes (Business Properties)
13. Advanced User settings to customize display of user defined fields (flex fields) in table/column business properties
14. GAP analysis reports (against Project or Mappings) at the metadata table and column level

Code Set Manager Add-On Module:

1. Create Code Mapping Using Drag/Drop feature
2. Upload Existing Code Mapping Specs from Excel
3. Ability to Import multiple Code Sets at a time using Excel
4. Organization of Code Sets into multi level Categories
5. Enhanced DB scan feature to support import of existing codes from Database
6. Code mapping spec grid maximize/restore
7. Restore and Purge for Codes and Code Mappings (Available only for Administrator and Power User)
8. Code Mapping Spec grid – Column Ordering and Column Visibility

Known Issues Addressed:

Mapping Manager Solution:

5. Forward Data Lineage Analyzer support for Oracle DB
6. Mapping Spec Report generated at the Project level consolidates all data into a single page and not multiple pages
7. Long Source/Target column names getting truncated in the Mapping Specification Report
8. Map Spec Excel Upload – Length conversion from numeric to string (e.g. 1 to 1.0) upon import
9. Implemented pagination fix during auto edit mode of Mapping Spec grid
10. Connection related issues with Oracle as MM DB in a multi-user environment

Codeset Manager:

1. Performance Issue related to uploading large codesets
2. Code Set Import via excel - Length conversion from numeric to string (e.g. 1 to 1.00) upon import
3. Removed limitation to create limited Categories, Code Sets & Code Mappings (100 in number)

V4.2:

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Mapping Manager:

1. New GUI (with a dialog) for easy selection and visualization of Pseudo code / Intended Use for Business Rules & Extended Business Rules
2. Integrated CC list for sending email alert along with the assigned users
3. Ability to add custom text to email in assignment changes.
4. Auto-Edit mode for mappings locked by the same user who is logged in
5. Extended Impact Analysis Report to include usage in Business Rule / Trans Lookup Condition / Lookup Column / Source Extract SQL. Along with the facility to export in multiple formats, viz., PDF, RTF, Excel, Word
6. Mapping Specification Report extended to include Source Summary & Target Summary
7. Dynamic expression support in Mapping Business Rule while exporting to Informatica. E.g.: CONCAT(%1, %2) with FNAME & LNAME columns will expand to CONCAT(FNAME, LNAME)
8. Export of Mappings in Projects/Subject Areas – New GUI Dialog allows user to export mapping specifications to Excel at the Project or Subject Area level with the ability to include active/passive mappings. User can export Mapping Specifications as Individual Excel Files, multiple sheets within a single excel file or consolidate all mappings into one single excel file
9. Mapping Specification Report – New GUI Dialog allows user to run the Mapping Specification Report at the Project /Subject Area/Individual Mapping level with the ability to include active/passive mappings. User can export the Mapping Specification report to PDF, Excel, Word and RTF formats.
10. Extended Impact Analysis Advance Search Dialog to include Mapping Filtering with an easy to use tree structure similar to Mapping Tree. Options to either include / exclude usage in Business Rule / Trans Lookup Condition / Lookup Column / Source Extract SQL.
11. Integrated Data Lineage Report: User can now click on any column available in metadata repository and view its forward lineage instantly.

Code Set Manager:

12. The new Code Set Manager will provide support for multiple Source Code Set/Environment combination to multiple Target Code Set/Environments.
13. The new CSM will enable the user to select Source Code Set/Environment and corresponding Target Code Set/Environment at the time of creating a new Mapping.
14. Validate functionality is provided to enable the user to view a report of all the Source codes that are not mapped to TARGET Codes. This functionality is provided at the Mapping Grid level.
15. The Publish functionality is provided at the Code Mapping Level which enables Mapping Manager Metadata browser to show only those Code Mappings that are published.
16. Completely redesigned GUI for Code Set Manager

V4.0:

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1. Mapping Manager contains a new improved user interface design that enhances the user experience with the tool.
2. Mapping Manager has now been certified on Oracle repository and can be run on both SQL Server and Oracle databases.
3. The product has been certified to run on Linux based environments (Ubuntu and Red Hat).
4. New theme using richer icon sets
5. Reordering of Mapping Specification Grid rows
6. Server Jobs for Datastage restored and enhanced
7. Five new customized, user-defined columns added to the data dictionary (system metadata)
8. Column Definition Comments expanded as 2 new columns to store both Column Definition and Column Comments
9. Logical Column Name added to the Mapping Specification Grid. (Target Logical Column and Source Logical Column)
10. WYSIWYG text editor implemented across Mapping Manager. (i.e. all styles/fonts applied to text in the edit mode are displayed in the view mode in the text area)

V3.1.8:

1. Mappings can be renamed
2. Users can reedit the mappings that they have locked without the need of an Administrator to unlock them

V3.1.5:

1. Implemented new connection pooling logic to improve tomcat performances.

V3.1.4:

1. Lookup Column and Trans Lookup condition implementation to integrate with SSIS

V3.1.3:

1. Lookup Column and Trans Lookup condition implementation to integrate with SSIS
2. Implementations:
3. Table & Columns Drag n Drop in Trans Lookup Condition column should generate the sql
4. Adding of new column to grid for holding Lookup Column
5. Attach the dropped columns in dropdown in Lookup Column
6. Once a column is selected in Lookup Column, the generated sql in Trans Lookup Condition should append a WHERE clause on lookup column and source column
7. Generate Lookup Component for each row in Mapping Grid
8. Attach all lookup components (in SSIS) to the source table one after another and ending in Derived Column / Copy Column / Union All / Target
9. Generate metadata xml in Lookup Component in SSIS for the generated sql in Trans Lookup Column in Mapping Grid, with few exceptions, Kind of In Progress
10. If Business Rule is specified along with Lookup Condition, derive the column from lookup rather than direct source column => Source => Lookup => Derived => Union All => MultiCast => Target
11. If No Business Rule but Lookup Condition, then derive the column from lookup rather than direct source column => Source => Lookup => Union All => Multicast => Target
12. Save Mapping Grid with the information entered
13. Support Export & Import from Excel (for Lookup Column)
14. Support Editing of saved mapping with the same kind of behaviour

V3.1.2:

1. Informatica XML export - Fixed the error that was occurring when the same column name was being used multiple times in the mapping and was not importing correctly into Informatica
2. Implementation of Datastage Parallel jobs and removal of server jobs

V3.1.1:

1. Integrated Source Extract SQL Query with SSIS.
2. SSIS XML export has two options, a. Default XML (initial one) b. With SQL Extract Query
3. If you go with SQL Extract Query, at all times it has to generate single source with the sql extract for that mapping

V3.1:

1. Implemented Column reordering functionality.
2. Ability to reset column reordering and visibility
3. Level of Effort tab updated to include Mapping and ETL effort.

V3.0:

1. Add grid font, size, backgroundcolor, foregroundcolor to conxtmenu without mapstatuscontext.xml file
2. Connecting Multiple Source Columns to Target Columns Without Transformation, while exporting to Informatica XML
3. Connecting Transformation to Target, basing on Target Column Definition, if it Exists
4. Creating Proper Connectors for above condition

5. Generating Transformation Field from Source Column Info, if Target Columns Doesnot Exist and Transformation Exists
6. Grid beatuification with support for Font, Size, Foreground Color, Background Color
7. License extended to support Subjects Count On Per Project Basis. It will default to 3, for the first version of license, where it doesnot have any value for subjects count
8. List Oracle Synonyms in the MetaData Browser with Synonym Icon / Ordering and Preview Support
9. Oracle Synonym Support while scanning Oracle MetaData
10. Provided proper error messages for errors during the upload file process in Mapping Documents
11. Subject Hierarchy Implementation
12. Synonym Reference is shown in the Table Properties for Oracle Synonyms
13. Updated Project User Details & Project Document Details Reports to show HTML Content in Description
14. SSIS XML (DTSX) Export Implementation for Mappings

V2.5.22:

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1. Subject Hierarchy changes by Sivag
 2. Added 6 User Defined Attributes in metadatamappingspec.jsp and also altered in database
 3. Grid beatuification with support for Font, Size, Foreground Color, Background Color

V2.5.21:

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1. Pervasive Data Preview functionality to preview first 100/1000 records.

V2.5.19:

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1. Implementation for the Clearing the Source & Target Items in Meta data Mapping Grid.
 2. Implementation for getting the actual values instead of null values for DataTypes, when we drag Multiple Columns or Table from Meta Data Tree into Meta Data Mapping Specification
 3. Oracle Synonym Support while scanning Oracle MetaData
 4. List Oracle Synonyms in the MetaData Browser with Synonym Icon / Ordering and Preview Support
 5. Synonym Reference is shown in the Table Properties for Oracle Synonyms

V2.5.18:

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1. Provided proper error messages for errors during the upload file process in Mapping Documents
 2. Connecting Multiple Source Columns to Target Columns Without Transformation, while exporting to Informatica XML
 3. Generating Transformation Field from Source Column Info, if Target Columns Does not Exist and Transformation Exists
 4. Creating Proper Connectors for above condition
 5. Connecting Transformation to Target, basing on Target Column Definition, if it Exists

V2.5.17:

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1. Updated Jasper Report to version 4.1.1
 2. Updated all reports to show & respect HTML entered through CKEditor
 3. Added support for English, Spanish, Portugese, German Languages
 4. Properties Key integration into Map Compare Report JSP file

V2.5.16:

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1. Integrated CKEditor (WYSIWYG Editor) at all places for Text Area.
 2. Microsoft Access DB (MDB) is supported in the System Manager as a DB to scan

V2.5.14:

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1. Added support for exporting Mapping to Informatica XML with Multiple Source Columns in a Row (Append Mode)
 2. Added support for exporting Mapping to Informatica XML with Multiple Target Columns in a Row (Append Mode)
 3. Added support for Pervasive Database Metadata Scanning in System Environments

V2.5.13:

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1. String literals (Business Rule) are formatted to Valid XML before exporting to Informatica XML

V2.5.12:

- 1. Column Ordering Preference being saved while Importing from Excel and Scanning from Database
- 2. Column Ordering Preference can be changed dynamically from System Metadata Browser
- 3. Column Ordering Preference is saved on a User Basis. i.e., their order preference will be available from any system they login.
- 4. Support for exporting Custom Transformation into Informatica XML

V2.5.10:

- 1. Ability to drag & drop table onto the mapping grid to add all columns in one shot
- 2. Added feature to show Project User Roles in multi-line in Resource Manager

V2.5.9:

- 1. Updated Evaluation License Date, starts from Aug 22 2011
- 2. Updated Evaluation License Days to 60 from 30. This renewed license expires on Oct 22 2011
- 3. Mapping Validation Report, enhanced to export to PDF or RTF directly from the menu option
- 4. Improved performance on Mapping Validation Report

V2.5.8:

- 1. Updated Evaluation License Date, starts from Jun 29 2011
- 2. Mapping Validation Report, enhanced to support Project selection and grouping by Mapping
- 3. Data Grid (thought out) Mapping Manager enhanced to support Inverted Commas ("")
- 4. Re-wrote the License saving part to store the License in Java Preferences (Repository) instead of File System, as many of our clients are having permission issues to do so.
- 5. Application will now remember the default selection by the user, in the Upload XML dialog for XML Type

V2.5.7:

- 1. Implemented Mapping Validation Report for a
 - a. Single Mapping
 - b. All Mappings for a Project
 - c. Selecting Different Project & Mapping

V2.5.4:

- 1. Removed the schema name from SOURCE TAG NAME attribute and put it in the OWNERNAME attribute
- 2. Removed the schema name from TARGET TAG NAME attribute
- 3. Removed the schema name from INSTANCE TAG TRANSFORMATIONNAME attribute
- 4. Added TABLEATTRIBUTE to the INSTANCE TAG with 'Table Name Prefix' and value as schema name

V2.5.3:

- 1. Updated license settings
- 2. Replaced '.' in Oracle Schema - Table notation for Informatica XML Export

V2.5.2:

- 1. Updated license settings

V2.5.1:

- 1. Informatica XML Generation

V2.4.4:

- 1. Enhanced Versioning.
- 2. Change Control Documentation Capabilities
- 3. Extended XML integration with Informatica – Auto-generate an Informatica ETL Job
- 4. Extended XML Integration with Informatica – Reverse Engineer an Informatica ETL Job as a Data Mapping Specification.

5. Extended XML integration with IBM Information Server (Data Stage) – Auto-generate an Information Server ETL Job
6. Extended XML integration with Informatica – Auto-Import an Informatica ETL Job as a Mapping Specification
7. Extended XML integration with IBM Information Server (Data Stage) – Auto-Import an Information Server ETL Job as a Mapping Specification
8. Enhanced Mapping Comparison Capabilities (Compare to Utility)
9. Enhanced Delete Mapping Capabilities
10. Baseline Mapping Specifications at the project level.
11. Print System Analysis Report
12. Mapping Specification Data Grid – Delete multiple rows enhancement
13. Mapping Specification Data Grid – support for many to many via drag and drop
14. Added a new menu 'Set Status Flag' from the mapping menu to allow users to set the status flag at the row level to complete.
15. Extended the export Mapping Specification capabilities to include MS Excel and XML formats.
16. Added support for Flat File definition & Metadata Uploads to the System Manager via MS Excel import template.
17. Visual Indicators for new & changed rows in the mapping grid
18. User Passwords and database passwords for metadata are encrypted
19. Added 4 User Defined 'Flex Fields' to the mapping specification.
20. Extended Impact Analysis Capabilities to perform default & advanced searches
21. Extended Impact Analysis to include Business Rule / Enterprise Transformations
22. Added the capability for user to Upload/Export Enterprise Transformations via MS Excel.
23. Enhanced the Data Preview capability to extend the number of rows from 100 to 1000 upon data preview.
24. Added a built in SQL Editor
25. Enhanced Managed Metadata Capabilities - Added Ability to Maintain Data Dictionaries across all Enterprise Systems.
26. Added Data Dictionary Import & Export Capabilities.
27. Added ability to track "Sensitive Data" elements at the metadata repository level and leverage it in mappings and ETL.
28. Ability to view the audit & change history of Enterprise Transformations.
29. Enabled user defined settings for the Mapping Specification Data Grid.
30. Added packaged support for HP NeoView and Netezza database appliances.
31. Modified the default Mapping Specification Grid Layout
32. Added the ability to track resource assignments and status tracking at the Mapping Specification Version level.
33. Added email notifications to resource assignments.
34. Added a project status report at the project level & enhanced the resource contact information at the project level.
35. Added role-based security to tighten security around what users can and cannot do within each of the modules.
36. Added ability for Testing Users (Security Role Name: Tester) to update the Testing Notes and dispositions of previously versioned/frozen mapping specifications.
37. Added ability to manage, upload and export data dictionaries directly in the metadata browser
38. Added logical table name and column name to business properties in the metadata browser
39. Added email notification alerts integrated into the Mapping Assignments Tab when a mapping changes.

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