

WhereScape®

WhereScape® 3D

Release Notes

Version 8.3.1.0 | February 2019

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WhereScape 3D Version 8.3.1.0 Release Update

WhereScape is pleased to announce that the WhereScape 3D Version 8.3.1.0 is now available. The Version 8.3.1.0 release notes document details the changes since the last release.

Upgrading to Version 8.3.1.0

To upgrade to Version 8.3.1.0, login to www.wherescape.com to download 3D from the downloads page in the Support section.

Detailed Changes from Previous Versions

Details of changes made in previous versions of 3D are available on the <http://www.wherescape.com/support/3d-release-notes/> page in the Support section.

Kind Regards,
WhereScape 3D Team

Version 8.3.1.0

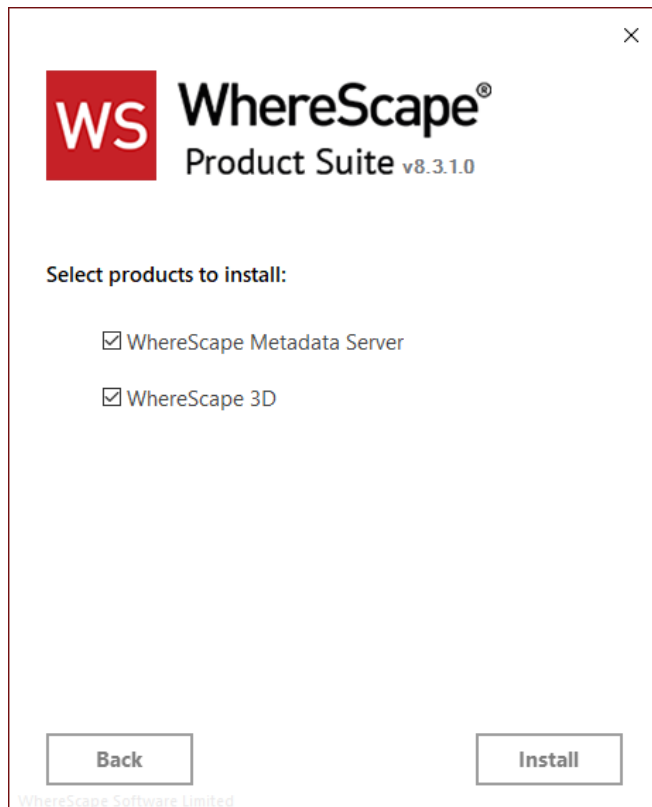
Significant Features in Version 8.3.1.0

The following significant new features have been added since Version 8.2.1.1.

- A new installer with an option to install metadata server, if required.
- The metadata repository has transitioned from Apache Derby to the WhereScape Metadata Server.
- A new dialog has been introduced to migrate from 32-bit ODBC DSNs to 64-bit ODBC DSNs.
- There is support for native resolution scaling.
- WhereScape 3D now encrypts all profiling data that is stored in the metadata repository.
- Template editor preview enables testing against other areas than the current entity. The previewer has also been added to the model conversion editor.
- DevOps changes
 - New DevOps command line arguments enable you to create, restore, link and backup a repository.
 - New DevOps command line option enables you to advanced copy a model with model conversions.
 - New DevOps command line option enables you to create the XML for export to RED.
- HTML Help enhancements
 - Pebble syntax help information has been added to the HTML help.

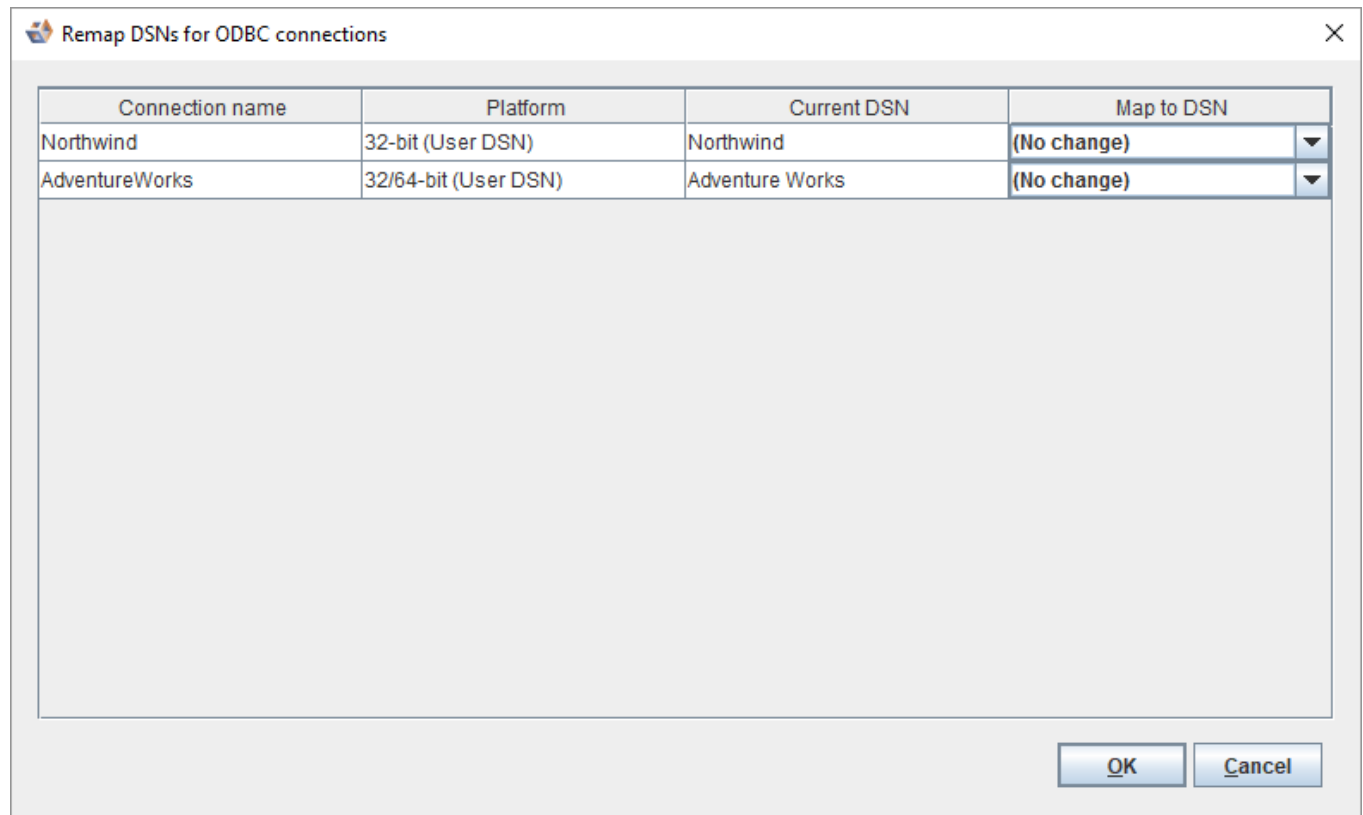
New installer with an option to install metadata server

When installing WhereScape 3D, you get an option to install the metadata server.



New dialog has been introduced to migrate from 32-bit ODBC DSNs to 64-bit ODBC DSNs

The **Remapping ODBC DSNs** dialog enables you to migrate from 32-bit ODBC DSNs to 64-bit ODBC DSNs.



WhereScape 3D now encrypts all profiling data that is stored in the metadata repository


Profiling results are now encrypted when stored in metadata repository. It can also push the data out externally to csv and user generated documentation. Following are examples of the warning messages that have been added to screens used to capture and export data...

Data profiling [Close]

Choose profiling type
Some types run faster than others

Profiling can be an expensive operation and a long running process. Even the Quick option can be expensive on a large database. Quick profile will complete first.


Quick
 Full
 Custom

 **Profiling collects and stores data to produce profiling information. If you use this capability on entities or attributes that contain sensitive data - including personally-identifiable information (PII) - that sensitive data may be stored in the metadata repository on this system. All data in the metadata repository are stored in encrypted form. Check this option if you understand this information, and its implications.**

[Back] [Next] [Profile] [Cancel]

Export violating business rules [Close]

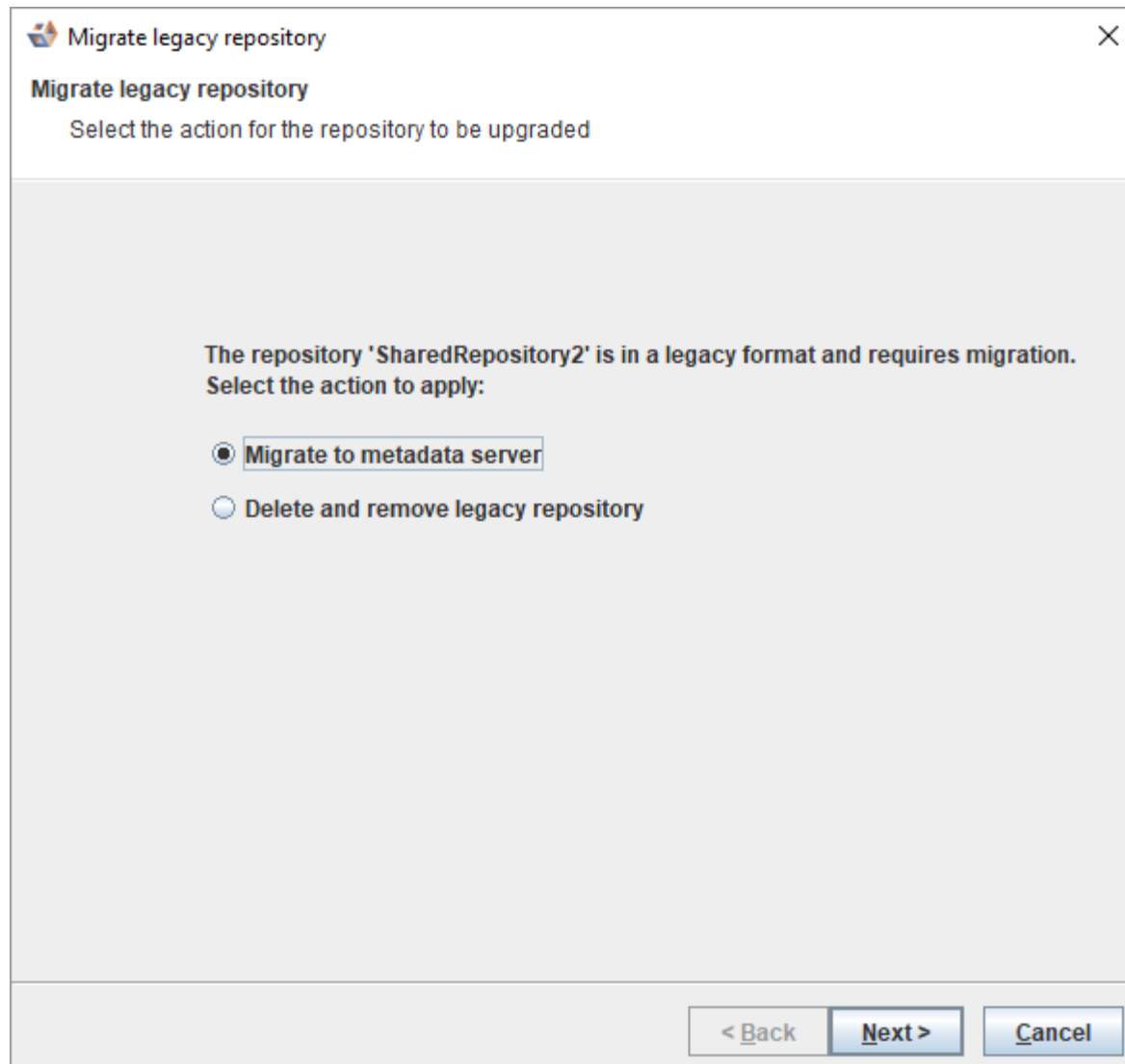
Location: C:\Users\john.smith\ [Browse]

 **Export violating business rules produces data captured from the source connection. If the source data contains sensitive data - including personally-identifiable information (PII) - that sensitive data may be stored in the metadata repository on this system, and produced during this operation. Check this option if you understand this information, and its implications.**

[OK] [Cancel]

The metadata repository has transitioned from Apache Derby to the WhereScape Metadata

Before upgrading WhereScape 3D, it is recommended you back up any repositories as part of our standard upgrade procedure. Upgrading any repositories older than 8.3.1.0 will display the migration wizard.



Migrate legacy repository [Close]

Migrate legacy repository
Select the action for the repository to be upgraded

The repository 'SharedRepository2' is in a legacy format and requires migration.
Select the action to apply:

Migrate to metadata server

Delete and remove legacy repository

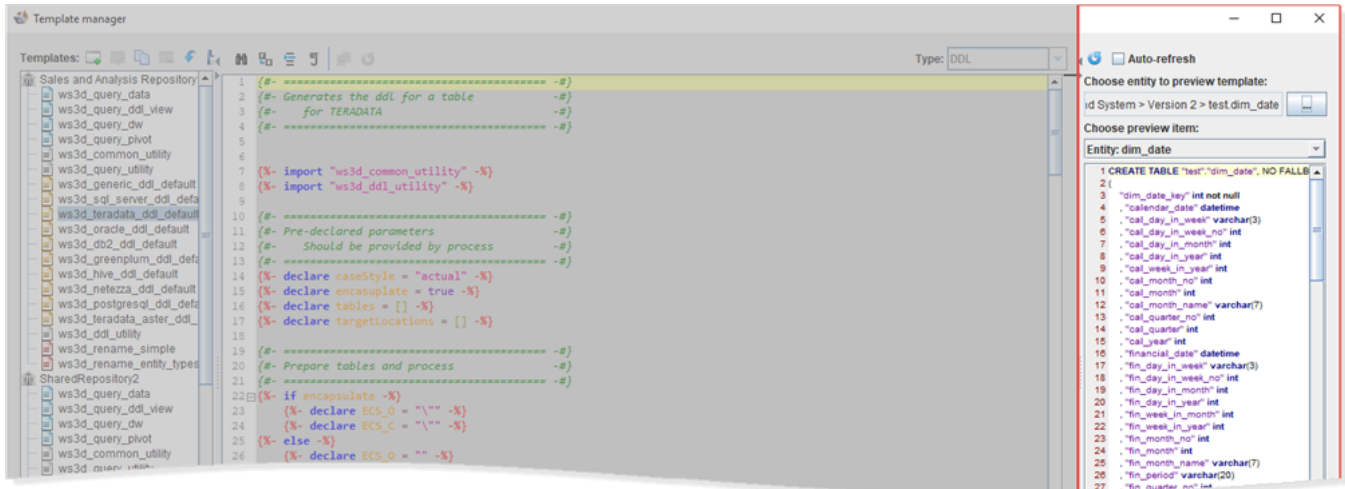
< Back Next > Cancel

Note

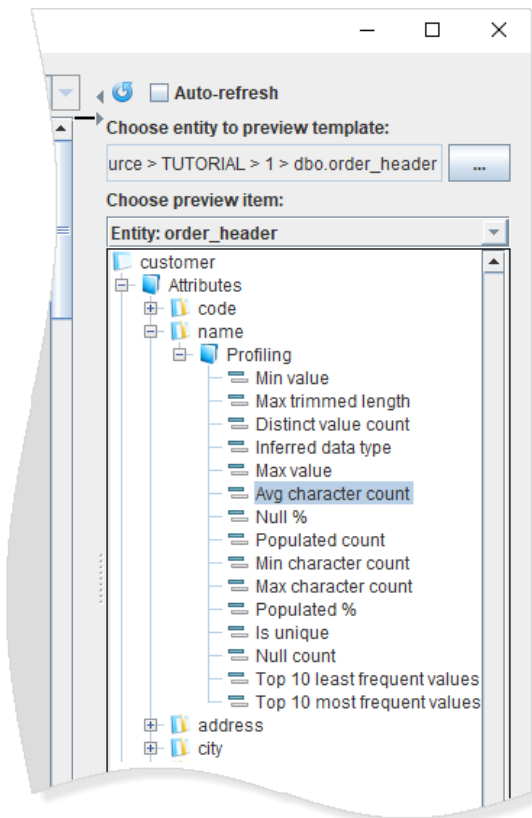
- If a centralized Derby Server is being used, it is recommended that a clean-up and removal of Derby server is carried out once the required repository upgrades and migrations have occurred.
- To reduce duplicate migrations, one user should upgrade the repository and other users linking to the same repository should relink to the new destination.

Template editor preview enables testing against other areas than the current entity

The preview pane on the right provides a preview of the output for the chosen entity.

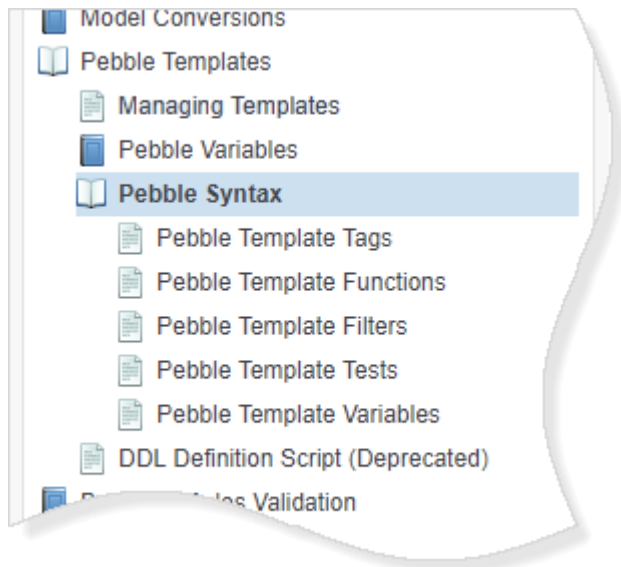


A new field has been added to refine which variables are available by selecting a particular item. Selecting an attribute profiling metric will allow previews with the variables: table, column, metric, value.



HTML Help Enhancements - Pebble Syntax Help Information has been added to the HTML Help

HTML help has help on pebble templates with various tags, functions, filters, tests and variables used.



Detailed list of changes in Version 8.3.1.0

The following changes have been implemented since Version 8.2.1.1

Notec

Details of changes made in previous versions of 3D are available on the <http://www.wherescape.com/support/3d-release-notes/> page in the Support section.

Jira Number	Description
New Features	
BLUE-2222	The metadata repository has transitioned from Apache Derby to the WhereScape metadata database.
BLUE-2227	3D now runs on Java 10 64-bit.
BLUE-2228	A new model conversion rule has been added to set the comments or user documentation on an entity, attribute or relationship.
BLUE-2243	New command line arguments have been introduced to create, restore, link and backup a repository.
BLUE-2255	New command line arguments have been introduced to advanced copy a model version.
BLUE-2256	New command line arguments have been introduced to create the XML for export to RED.
BLUE-2266	Added an ODBC DSN connection remapper dialog to reconfigure any connections from 32-bit to 64-bit.
BLUE-2284	A new model conversion rule has been added to merge source mapping sets.
Improvements	
BLUE-1553	3D now supports native resolution scaling.
BLUE-2023	Improved the floating windows in HTML generated documentation.
BLUE-2192	New DevOps commands for advanced copying and exporting to RED.
BLUE-2221	The third party components have been updated to the latest version.
BLUE-2229	The confirmation dialog displayed on deletion of a repository is now more explicit.
BLUE-2232	Users can now configure some confirmation dialogs to not be displayed.
BLUE-2240	Improved loading of libraries for JDBC connections.
BLUE-2242	The properties of a model now displays the vendor version of the chosen WhereScape or user defined discovery method.
BLUE-2259	A new model conversion has been added to run before exporting to RED to improve naming scheme of source mapping sets.
BLUE-2262	The data transformations field when applying data type mappings is no longer hidden by a collapsible pane.
BLUE-2268	The export to RED process now checks for a compatible version of RED before attempting to load the XML into RED.
BLUE-2272	Improvements have been made to the Pebble descriptions and documentation.
BLUE-2273	The product version is now displayed in the installer.
BLUE-2275	Profiling results are now encrypted in the metadata repository to protect any sensitive data, including Personally Identifiable Information (PII).
BLUE-2281	The template editor preview allows testing against other areas other than the current entity. The previewer has been also been added to the model conversion editor.

Jira Number	Description
BLUE-2283	WhereScape 3D now generates a single page PDF of the diagram when generating documentation.
Bug	
BLUE-2091	The top 10 profiling metrics are now displayable in HTML generated documentation.
BLUE-2211	Editing the properties of a model that has versions disabled will no longer result in a null pointer exception.
BLUE-2264	A new model conversion (WhereScape RED Export Preparation) has been added to run before exporting to RED to validate the non-ASCII characters of entities and attributes.
BLUE-2267	Improved handling of some host connections.
BLUE-2271	The query generation templates correctly handle attributes with data transformations.
BLUE-2288	Backing up a shared repository no longer fails with long profiled data.
BLUE-2295	ADM no longer crashes when loading an export to RED XML.
BLUE-2296	Added encapsulation to the source names that contain a space when exporting to RED.
BLUE-2298	Deploying to RED now provides short names for source sets.
BLUE-2308	Non-empty source mapping sets that have host source mappings could be removed unintentionally by deleting attributes.
BLUE-2309	Improved the performance for the model conversion rule for deleting attributes.
BLUE-2310	The model conversion rule, redirect entity source mappings, converted host source mappings into host and entity source mappings. This issue has now been fixed.

Previous Release Significant Features

Significant Features in 8.2.1.1

- Introduced source mapping sets for multi-source
- Reinvigorate user guide with HTML5

Significant Features in 8.1.1.0

- Improvements to model conversions
 - Customizable matching in model conversion rules
 - Use profiling for matching criteria
 - Run multiple model conversions sequentially
 - Customizable RDBMS filter
 - WhereScape provided model conversions are read only
 - Improved renaming support
 - Entity type synchronization
- New template features
 - Variable type conversions
 - String support functions
- Improved the interface for source mappings

Significant Features 8.0.1.0

The following significant new features have been added since Version 2.10.0.0

- Improved DDL template support
- Added template support for queries

Significant Features 2.10.0.0

The following significant new features have been added since Version 2.9.0.0:

- Model conversion logger and snapshots.
- Alignment of Data Vault 2.0 with RED changes and improvements to the model conversions.

Significant Features 2.9.0.0

The following significant features or improvements have been added since Version 2.8.0.2

- Added changing hash to Satellites of a Data Vault
- Data type mappings for Hive and to support TPT loads in Teradata
- Allow deletion of profiling results
- Updated tutorials

Significant Features 2.8.0.2

The 3D 2.8.0.2 update fixes a RED export issue by providing a prompt to determine how potentially invalid data types for dss columns for Teradata are processed.

Significant Features 2.8.0.1

The 3D 2.8.0.1 update fixes an issue when upgrading a repository with an entity type named 'View' which would cause the repository upgrade to fail.

Significant Features 2.8.0.0

The following significant new features have been added since Version 2.7.0.1

- Data Vault improvements
 - Add relationship between Links and Hubs
 - Entity types added to RED design category
- Model conversion rules
 - New rule: Assign relationship type
 - The 'Exclude views' option in 'Copy entities' rule has been removed
 - The 'Create view' rule requires setting a 'View' entity type
 - Described in the user guide
 - The entity object property field was removed
- Improvements to synchronizing RED object types
 - The improvements have been incorporated for use with the upcoming RED release
 - Allow custom databases for target locations
 - Discovery of view queries
 - Support for Teradata timestamp(0) and MSSQL varchar(max)
 - Additional features to the UI

Significant Features 2.7.2.0 BETA

- No significant features were added in this release.

Significant Features 2.7.1.0 BETA

- Data Vault entity types added to RED design category
- Discovery of view queries
- Support for Teradata timestamp(0) and MSSQL varchar(max)

Significant Features 2.7.0.1

- CSV parser supporting multi-character delimiters and newlines in values
- Model conversion rules have a description field
- Discovery improvements
 - Oracle XML discovery includes data type size and scale
 - Teradata indexes without names

Significant Features 2.7.0.0

- CSV parser supporting multi-character delimiters and newlines in values
- Model conversion rules have a description field
- Discovery improvements
 - Oracle XML discovery includes data type size and scale
 - Teradata indexes without names

Significant Features 2.6.2.0 BETA

- Data vault 2.0 support
 - Entity type icons for hub, link and satellite tables
- Model conversion rules
 - Additional rule
 - Delete attribute source mappings
- Improvements to existing rules
 - Support for more variables
 - New options for some rules

Significant Features 2.6.1.0 BETA

- DDL language expansions
 - Table type filtering
 - Source query support
- Data Vault 2.0 support
 - Hash key transformations
 - Data Vault staging out views
- RED external targets
- Model conversion rules
 - Additional rules
 - Adding relations
 - Removing transformations
 - Merge entities by source entity
 - Populate entity queries
 - Assign schema
 - Improvements to existing rules
 - Applying steps only for certain RDBMS
 - Variables and basic logic support for transformations
- Diagram walker for large diagrams
- Derive relations wizard can assign primary keys

Significant Features 2.6.0.0

- Improved usability
 - Regenerating DDL on an entity allows manual changes to be merged back in
 - XML and Generic Profiling allow a connection retry period to be set
 - Display data shows calculated columns
 - Display data generates SQL aliases
- Performance improvements
 - CSV file discovery can be performed on a limited number of rows
 - File profiling (CSV, XML and JSON) can be performed on a limited number of rows
 - Export to RED on a shared repository has been optimized for speed

Significant Features 2.5.2.0 BETA

- Model conversions
 - Direction of source mappings when copying tables
 - Apply data type mappings
 - Copy columns within a table
 - Table and column names as variables
 - Schema handling
 - Setting views
- Generated documentation
 - Hidden entities and attributes
- Handling of simple JSON and XML files
 - Discovery
 - Profiling
 - Sample data
 - Pivot table
 - Duplicate data

Significant Features 2.5.1.0 BETA

- Additional RED integration
 - Generated JOIN queries can now be altered before exporting to RED
- Support for composite joins
 - Generic and XML defined Discovery
 - Generic profiling
 - Query generation
 - DDL generation
 - RED integration
- Hierarchical joins supported
- Joins with aliases supported
- JDBC connections can now have multiple JAR files assigned

Significant Features 2.5.0.0

- Additional RED integration
 - Transformations created from the data type mappings
 - Catering for altering index types
 - Default values and nullable columns
- User defined content
 - Custom reports
 - Stored queries
- Shared repositories
 - Storing connection passwords central, local or entering when connecting
- Updated branding

Significant Features 2.4.2.0

- 3D work flow assistance
 - Simplified default functionality
- Prototyping capabilities to verify the data warehouse design
 - Denormalizes a sample of the data behind the data warehouse design
 - Shows a basic pivot table for the designed star schema
- Merging models
 - Allows for moving changes between models
 - Supports conflict resolution
- Improved usability and user experience
 - Setting under View to increase the fonts
- Runs on a bundled version of Java 8
- New model conversion to generate load and stage tables for data vaults
- Data type mappings have been updated
- Improved RED integration
- Improved diagram performance
- Updated tutorials and user guide

Significant Features 2.3.2.0

- Usability / ease of use redesign
 - Improved handling of surrogate keys
 - Adjustment of default values
 - Allowing diagrams to open as read only
 - Navigating from the tree to the diagram
 - Introduction of a category manager
 - Restoring the tree state at start-up
- Setting table background colors in the diagram
- Search and replace functionality in the model conversion rules

- Improved lineage tracking
- Improved subtype handling by the model conversion
- Discovery of files without header rows
- General maintenance and bug fixes
- Added query join types (only INNER JOIN was being supported before)
- Teradata views now get their data types correctly discovered
- Generated documentation has been expanded to contain additional business semantics
- Display data now uses the data transformations
- Models now can be exported in the Common Warehouse Metamodel format
- RED integration Level One
 - Joins on stage tables
 - Unique short names
 - Change detection fields
 - RED projects
 - Syncing of object types
 - Business key flags
 - Surrogate key flags

Significant Features 2.2.1.0

- Simplified database schema selection on connections
- WhereScape 3D can now be installed in a custom location
- Events viewer
- New wizard to rename multiple columns
- Java 8 support (a custom JDBC-ODBC bridge supporting ODBC 3.x was added)
- Model conversions
 - Sharing model conversions (export and import functionality)
 - Model naming standards (a new rule to enforce naming standards and automate abbreviations)
 - A new rule to generate indexes
 - The 'Delete entities' rule now provides the option to cascade delete any foreign keys
- Simplified connection and model creation
- Redesigned the copy/import/transition functionality
- Large diagrams handling
- Diagrams can now be saved as PNG images

Significant Features 2.1.0.1

- Effort calculation
- Distribution keys enhancements
- Improved RED integration
- Extended relationship profiling
- Duplicate data detection

Significant Features 2.1.0.0

- 3D to RED export/import is now enabled
- New model conversion rules for:
 - Rename attribute
 - Redirect attribute source mappings
 - Add attributes from source entities

Significant Features 2.0.0.8

- Data transformations (BETA)
- PowerDesigner support for views, groups and code as name
- Hadoop Distributed File System can now be a host connection
- File encoding can now be selected on local file system host connections (e.g.: various EBCDIC encodings)
- Updated context menus

Significant Features 2.0.0.7

- Data quality functionality
- Business rule validation
- Automated star schema design generation from source systems
- Automated stage and load tables generation from star schemas
- New filtering and validation screens for profiling results (BETA)
- WhereScape RED “fixed” categories
- Silent installation options

Significant Features 2.0.0.6

- Significantly improved diagram layouts using a new layout engine
- Sample data generation can now be scheduled.
- Several enhancements to model conversion rules.
- Referential integrity profiling.

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