WhereScape® 3D

Release Notes

Version 8.6.6.0 | February 2022

Table of Contents

WhereScape 3D Version 8.6.6.0 Release Update

WhereScape is pleased to announce that the WhereScape 3D Version 8.6.6.0 is now available. The Version 8.6.6.0 release notes document details the changes since the last release.

Upgrading to Version 8.6.6.0

To upgrade to Version 8.6.6.0, 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 **https://www1.wherescape.com/support/software-downloads-documentation/wherescape-3d/previous-versions/** page in the Support section.

Kind Regards,

WhereScape 3D Team

Version 8.6.6.0 - 4 -

Significant Features in Version 8.6.6.0

The following enhancements have been made since Version 8.6.5.0.

- Enhanced discovery methods
- Validation templates
- Design automation improvements
- Comparing and merging of configurations
- Performance improvements

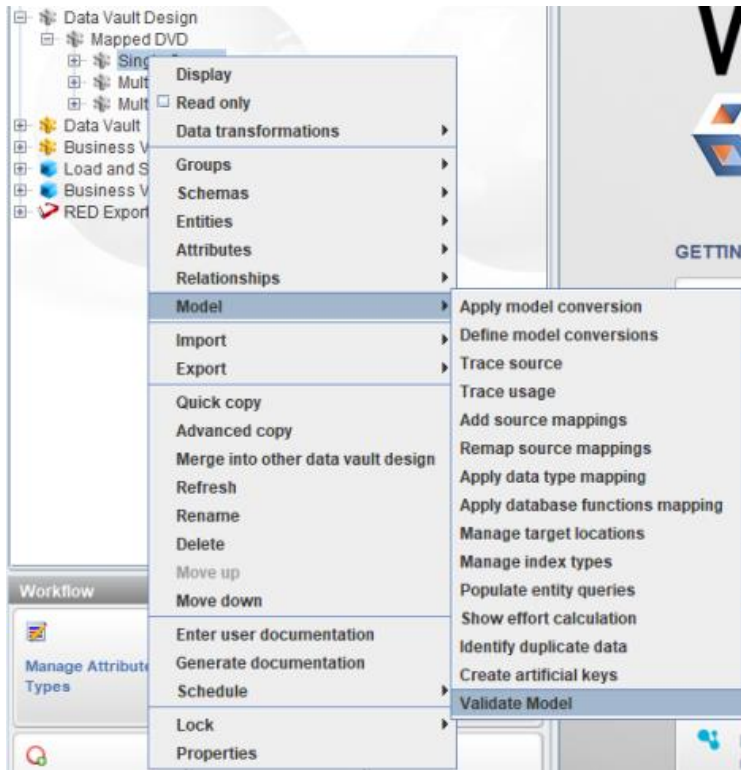### Enhanced discovery methods

A wider range of metadata can now be discovered which improves WhereScape 3D's ability to interrogate source systems or integrate with other tools such as WhereScape RED. The additional information that can be discovered is:

- Target locations
- Source sets
- DW queries
- Column types
- Source mappings
- Data transformations
- Configured column properties

This feature enables models to be imported from WhereScape RED into a 'RED Import' category within 3D. Which allows any changes made in RED since the last deployment to be compared and merged with any designs currently in development within 3D. See the new **enablement pack download area** for the latest discovery method and category settings.

Validation templates

Validation templates have been moved from the model conversion manager to the template manager. This allows models to be validated from within the template manager during template development or by right clicking on a model in the repository tree.
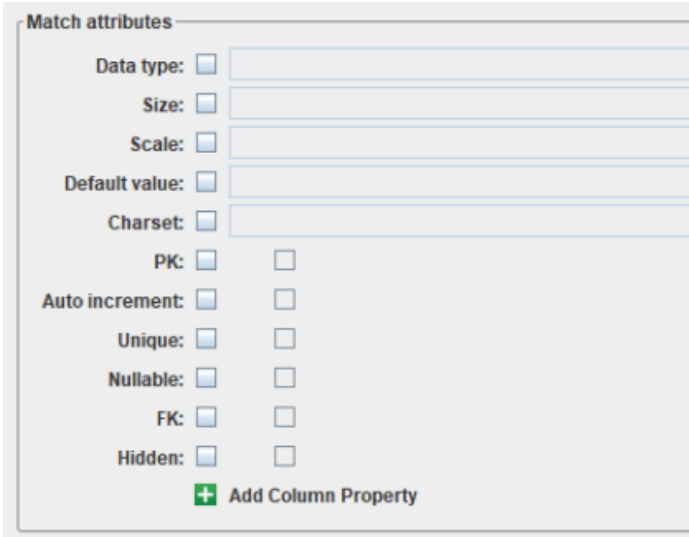

Design automation improvements

WhereScape 3D 8.6.6.0 introduces a variety of design automation improvements, in the form of new model conversion rules.

New validate model conversion rule: Provides the opportunity to run automated checks on models and validate the results of model conversion rules. For example, automated validation tests can be executed to ensure that entity and attribute types are correctly set or that data type mappings have been correctly applied.

New set query join types model conversion rule: Enables query join types to be set as part of an automated process. For example, when creating PIT and Bridge tables or staging tables. The set query join types rule provides further automation potential for the generation of data warehouse queries. The following out-of-the-box conversion sets have been updated to account for query join types:

- ws3d_rvls - Create loads
- ws3d_gbv - PIT tables from Views
- ws3d_gbv - Generate Bridge tables

Manipulate configured column property values: Extensible column properties were introduced in WhereScape 3D 8.6.5.0. The values of extensible column properties can now be manipulated using model conversion rules. This enhancement allows configured properties such as column collation, GDPR flags or index inclusion flags to be set during automated workflows.

New delete source sets model conversion rule: A new model conversion rule to delete source sets. Any source sets that are no longer needed or empty source sets can be deleted during the execution of model conversions.

Comparing and merging of configurations

WhereScape 3D 8.6.6.0 provides the ability to compare and merge Model conversion sets, templates, scripts and UI configurations. The ability to compare and merge these configurations improves workflows when working in teams by presenting the opportunity to branch and merge code.

This feature will be particularly beneficial during software upgrades. Changes made in new releases can now be easily compared with custom solutions and merged accordingly.

Performance improvements

WhereScape 3D 8.6.6.0 provides significant improvements in performance to the following operations:

1. Quick copying a model version
2. Refreshing models
3. Deleting model versions

These improvements will be particularly noticeable when working on remote repositories and will enhance efficiency and user experience.

Detailed list of changes in Version 8.6.6.0

The following changes have been implemented since Version 8.6.5.0

Jira Number	Description
New Features	
BLUE-2777	New 'Validate model' model conversion rule and enhanced validation templates.
BLUE-2778	New model conversion rule to set query join types.
BLUE-2779	New model conversion rule to delete source sets.
BLUE-2780	The 'Change attribute properties' model conversion rule now supports manipulating configured column properties.
BLUE-2781	Added support for comparing and merging conversion sets.
BLUE-2782	Added support for copying model conversion rules from one conversion set to another.
BLUE-2783	Added support for comparing and merging templates, scripts and UI configurations.
Improvements	
BLUE-2420	Rename entity and Rename attribute model conversion rule allows removing an attribute label.
BLUE-2470	Enhanced category settings import & export process now includes Workflow and DW query settings.
BLUE-2630	Quick copy, delete model and refresh model performance improvements.
BLUE-2638	Data transformations improved for PIT stage out views when using out-of-the-box model conversion rules.
BLUE-2700	Improved PIT table wizard only displays eligible hubs and links.
BLUE-2711	Added support for copying hidden entities and attributes.
BLUE-2712	Documentation generation enhanced for multi-source lineage.
BLUE-2715	Relationships to hubs & links are created by PIT & Bridge table wizards.
BLUE-2731	Improved WhereScape RED Export Preparation model conversion rule to ensure file path and delimiter are exported to RED when sourcing from files.
BLUE-2737	Consistent naming of Link tables when using the 'ws3d-grv - Logical to DV Spine' conversion set.
BLUE-2775	Improved descriptions for all out-of-the-box model conversion rules.
BLUE-2784	Added support for discovering a wider range of metadata.
BLUE-2785	Enhanced merge models functionality now supports merging configured load table and column properties as well as target locations.
BLUE-2793	Enhanced support for hierarchical links.
BLUE-2841	Added support for the following placeholders in the data type mapping transformation code field: %table_name, %length, %scale, %precision, %charset
BLUE-2842	Support for integrating user defined workflows with the RED export category
BLUE-2854	Usability improvements for configurable list view items.
BLUE-2856	Table type discovery improvements.
Bug Fixes	
BLUE-2351	Improvements to data type discovery in the out-of-the-box SQL Server discovery method.
BLUE-2418	Added support for discovering files with UTF-8 BOM encoding.
BLUE-2545	Added support for querying data from tables containing self-join.
BLUE-2577	Improvements to PIT & Bridge table display in diagrams when using the PIT & Bridge

Jira Number	Description
	wizard.
BLUE-2723	Improved support for installing WhereScape 3D and metadata server using the command line.
BLUE-2733	Improved memory management when restoring repositories via the CLI.
BLUE-2760	Improved handling of case conversion.
BLUE-2764	Enhanced remap source mappings capabilities with multiple source mapping sets.
BLUE-2767	Improved error handling the PIT table wizard.
BLUE-2772	Snapshot icon is correctly displayed for all model conversion rules.
BLUE-2773	Support for accessing the RDBMS name associated with a target location using Pebble templates.
BLUE-2774	Added support for multiple change entity properties rules in a single conversion set.
BLUE-2790	Discovery of Snowflake ODBC connections now works as expected.
BLUE-2816	Improved support for accessing source sets within Pebble templates.
BLUE-2839	Fixed issue in 3D Export to RED for negative numbers in Data Warehouse Query.
BLUE-2850	Attribute types can now be imported from XML into the RED export category.
BLUE-2853	Added support for copying configured connections within a repository.
BLUE-2855	Fixed width files discovered by 3D are correctly exported to RED.

Previous Release Significant Features

Significant Features in 8.6.5.0

- Source API connectivity & Configurable UI.
- Configurable Workflows.
- Expanded DevOps Capabilities.
- All definitions migrated to the Metadata Database.
- Enhanced authentication mechanisms.

Significant Features in 8.6.3.0

- Snowflake discovery performance improved
- New Model Conversion Rules
    - Change entity properties (setting visibility flag)
- A number of stability improvements

Significant Features in 8.6.2.0

- Model Conversion Rule Editor
    - Ability to Stop a rule set at a specified point
    - New Validation Panel
- Model Conversion Rule Improvements
    - Group Management: Create, Delete, Rename, Assign / Remove Entities
    - Populate Entity Queries - now source mapping aware
    - Add Data Transformation - now source mapping aware
    - Change Attribute Properties - now supports hiding / unhiding
- Business Vault Design
    - New Bridge Wizard
    - New PIT Wizard
    - Model Conversion Updates
    - Satellite current and history view query improvements
- PostgreSQL and Java Support libraries update
- New installations use PostgreSQL 12

Significant Features in 8.5.2.0

- Remapping Multi-source Map Sets.
- More Predictable Hash-key Member with Quick Copy.
- Business Vault Model Conversion Enhancements.
- Multi-Active Satellite supports all naming in stage table.

Significant Features in 8.5.1.0

- 3D has included support for the Business Vault category.

- This version allows you to create Point in Time (PIT) and Bridge tables under Data Vault and Business Vault models.
- Bridge table wizard is accessible in the Business Vault category for creating a Bridge table with a single link and related hubs.
- 3D now supports Microsoft SQL Server 2019.
- This version includes the 'Multi-Active Satellite Natural key' and 'Multi-Active Satellite Sequence key' attributes types for RED export.

Significant Features in 8.4.2.0

- Table with multiple source connections
- Hidden Objects in Tree View
- Inaccuracy in the display overview when display scaling is used
- Memory leak of multiple track-back diagrams when closing them

Significant Features in 8.4.1.0

- Enhanced Data Vault generation workflows
- Advanced copy performance enhancements
- Added Snowflake and RedShift database support
- Enhanced model conversion criteria matching
- Other enhancements
    - Entity type robots
    - New attribute type colors
    - RED category

Significant Features in 8.3.1.0 and 8.3.1.1

- A new installer with an option to install metadata server
- 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

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
  - o Customizable matching in model conversion rules
  - o Use profiling for matching criteria
  - o Run multiple model conversions sequentially
  - o Customizable RDBMS filter
  - o WhereScape provided model conversions are read only
  - o Improved renaming support
  - o Entity type synchronization
- New template features
  - o Variable type conversions
  - o 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

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