

WhereScape®

WhereScape® RED

Release Notes

Version 8.6.1.0 | March 2021

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WhereScape RED 8.6.1.0 Release Update

WhereScape is pleased to announce that WhereScape RED 8.6.1.0 is now available.

Upgrading to version 8.6.1.0

Login to <https://www.wherescape.com> and download RED 8.6.1.0 from the downloads page in the **Support** section.

Kind Regards,
WhereScape RED Team

Significant New Features and Improvements in this Release

Extensible Source Connections

RED 8.6.1.0 introduces expanded data source browsing capabilities. It enables any data source type to be browsed and ingested into your data warehouse, as long as your sources have Windows scriptable APIs or command-line tools available or both. Examples of source types made available by this feature are REST/SOAP Services, JDBC, Cloud Based Storage, JSON/XML/ARVO, and many more.

WhereScape, Inc. will develop configurations for commonly requested sources and release them as WhereScape Enablement Packs following the initial 8.6.1.0 release. However, the new workflow can be self scripted and configured to your own needs.

This feature includes the following additions to RED:

- User-defined UI components configuration including List boxes, Text boxes, and Numeric fields for the following properties:
 - Connection Properties
 - Load Table Properties
- A new Scripted Browse Workflow for Configured Connections

Column-level user-defined metadata

In addition to Extensible Source Connections, RED 8.6.1.0 introduces configurable UI components for Column Properties. It opens up the storage and retrieval of column-level user-defined metadata such as column collation, GDPR flags, and index inclusion flags.

Other Improvements

In addition, the following improvements are included in this release:

- RED now includes the option to build Fastload SSIS packages for loads into compliant custom database targets.
- Added support for Unix and Linux based Update Routines for Custom Database Targets.
- Improved Extended Properties usability, each Extended Property can now be tokenized for automatic replacement during Script execution.
- Scripts can now reference other scripts in the metadata at runtime, allowing common code modules to reside in the metadata repository.
- Table Validate in RED can now be set to run the Table/Column Information SQL Block against a specific connection. This is particularly useful when targeting Hive with an External Metastore.
- Improved Data Store and Dimension History objects code generation when using NOT EXISTS logic for SQL Server.
- Improved Load table Properties initialization when using Templates for user-defined Host Script Languages.
- Improved the initialization of the 'sourceColumn' metadata in templates.
- Improvements in file locking protection to Windows Scheduler for RED for all Script based tasks.
- Increased response timeout for the WhereScape Template engine.

Important Messages when Upgrading from Earlier Versions

When **Upgrading** from previous versions of RED, it is necessary to update each RED metadata repository to complete the upgrade. This is done by completing a **validate and recompile of all metadata procedures** in WhereScape Administrator.

Notes:

If upgrading from a previous version:

1. Please ensure you also upgrade the WhereScape scheduler at the same time. Details for this process are outlined in the WhereScape RED Installation Guide—Upgrading WhereScape RED and Scheduler Installation and Configuration sections.
2. Please review and action all the previous version-specific **Important Messages** below, that are relevant for your RED Upgrade.

Important Messages when upgrading from 8.2.1.1 or earlier

- A new metadata service attribute for the DSN architecture has been added in the RED 8.3.1.0 release. Any existing templates that include authentication to the RED repository must be updated to include this attribute, if the RED repository is migrated to a 64 bit ODBC DSN (if the attribute is not defined, then a 32-bit architecture is assumed).
For example: [WslMetadataServiceClient.Architecture]::_64bit
- The **Unix** and **Linux Scheduler scripts for Oracle, Teradata** have been altered and need to be applied manually.

Important Messages when upgrading from 8.1.1.0 or earlier

- Teradata customers upgrading from RED versions prior to RED 8.0.1.0 please be aware that later versions of Setup Administrator have functionality to test the RED metadata tables' primary indexes. When sub-optimal primary indexes are detected Setup Administrator creates a copy of the affected table with the recommended primary index, copies the data to the new table and finally removes the old table. Please note that sufficient free space in the metadata database is required to temporarily duplicate the largest metadata table that requires migration. Also any custom statistics on these tables will need to be reapplied.
- WhereScape from the RED 8.2.1.1 version have added certification for the following metadata and target databases:
 - Oracle 12C Release 2
 - Teradata 16.20
 - Microsoft SQL Server 2017
- Cube and Cube Virtual objects are to be deprecated in a subsequent release. Cube objects must be migrated to OLAP Cube objects.
- Microsoft is deprecating support for their Microsoft OLE Driver for Oracle. WhereScape recommends that customers currently using this software migrate to the Oracle OLE Driver.
- WhereScape recommends that you use an Oracle or SQL Server metadata repository and the Windows Scheduler, if you wish to use Custom database targets.
- WhereScape wish to advise customers that work is underway to migrate RED to a 64-bit application over the next 12 months. While the transition is planned to minimize the impact to customers, there may be a requirement to transition to 64-bit ODBC data sources, as part for the upgrade path for this future release of WhereScape RED. No changes are required in the interim. More details will be made available closer to the time the work is completed.

Important Messages when upgrading from 8.0.1.0 or earlier

- SQL Server customers taking advantage of the multiple database support feature are recommended to apply three part naming in their references to SQL Server tables. For example, in a custom procedure please refer to a data warehouse table using the format `<database name>.<schema name>.<table name>`. This will offset the impact of different users or machines having different default databases set.
- Customers using custom database targets to support RedShift or Snowflake are advised to contact their WhereScape representative for information on taking advantage of RED's enhanced custom database support features.
- The Data Vault hash key functions for Teradata and Oracle repositories have been changed in the templates (wsl_teradata_utility_dv and wsl_oracle_utility_dv). Data Vault customers running on Teradata or Oracle who were using these templates from the RED 6.9.1.0 release are advised to retain that version of the template, unless they migrate any key generated using the previous hash key function.
- The Windows and the UNIX/Linux generated Load and Export scripts for Teradata have been updated to use the new environment variables for identifying the TDPID, the user name and the password to connect to the metadata repository, the target database and the source database for Loads and Exports. Please refer to the section Script Environment Variables of the WhereScape RED User Guide for more information.

Important Messages when upgrading from 6.9.1.0 or earlier

- The **Linux Scheduler scripts for Oracle, Teradata and DB2** have been altered and will need to be applied manually.

Important Messages when upgrading from 6.8.7.0 or earlier

- In RED, File and Script-based loads from Windows connections creates a format file for the BULK INSERT operation in the Work Directory of the Windows Connection. This only applies when loading into an SQL Server target. This directory must be accessible to both the machine running SQL Server and the machine running the WhereScape RED Scheduler. Unless these are always the same machine, a UNC path or mapped network path will be required.
- **Legacy hub, link and satellite** objects, created in RED 6.8.7.0 or earlier are still supported in subsequent releases. However, they do not utilize the Data Vault enhancements introduced in release 6.9.1.0.

Detailed Changes in RED 8.6.1.0

The following changes have been implemented since Version 8.5.1.0.

Database	Jira Ticket	Description
Improvements		
Custom	RED-9870	Added the option to build Fastload SSIS packages for loads into compliant custom database targets.
Common	RED-10642	Improved Extended Properties usability, each Extended Property can now be tokenized for automatic replacement during Script execution.
Common	RED-10668	Scripts can now reference other scripts in the metadata at runtime. This change allows common code modules to reside in the metadata repository.
Custom	RED-10806	Table Validate in RED can now be set to run the Table/Column Information SQL Block against a specific connection. This is particularly useful when targeting Hive with an External Metastore.
Teradata	RED-10814	Improved performance for opening Object Properties in RED.
Common	RED-10843	Added support for API Source Connectivity and Configurable UI for Load Tables, Columns and Source Connections.
Common	RED-10869	Added support for Unix and Linux based Update Routines for Custom Database Targets.
Common	RED-10944	Increased response timeout for the WhereScape Template engine.
Issues		
SQL Server	RED-4558	Improved Data Store and Dimension History objects code generation when using NOT EXISTS logic for SQL Server.
Common	RED-8250	Comments are no longer stripped from SQL Statements during DDL execution for Template driven DDL and Override DDL.
Common	RED-8932	Resolved issue with template based update routine generation including dimension joins, the template field 'fk.fromTable.name' now returns the table name only.
Common	RED-10602	Improved Load table Properties initialization when using Templates for user-defined Host Script Languages.
Common	RED-10611	Fixed missing template variable 'settings.template.name' for Template based DDL operations.
Common	RED-10613	Joins Diagrams now correctly track back through Source Mapping objects.
Custom	RED-10741	Resolve issue with option to write DDL SQL to a file during application deployments for objects in a custom database connection.
Custom	RED-10766	For Custom Targets, expansion at runtime of the token \$OBJECT\$ for DDL operations on Views has been made consistent with Table objects.
Azure SQL	RED-10786	Improved the initialization of the sourceColumn metadata in templates.
Teradata	RED-10813	Fixed issues with RED Deployments on Teradata using RedCli affecting update routines on Data Vault Objects.
Common	RED-10833	Fixed issue where the column action 'Change Source Table' on Source Mapping objects would update all source mapping columns in the repository for the transition from "(Empty)" to "<new source table>" in some scenarios.

Database	Jira Ticket	Description
SQL Server	RED-10842	Improvements in file locking protection to Windows Scheduler for RED for all Script based Tasks.
Common	RED-10870	Setup Administrator fix for 3D Exports to RED which include Load tables sourced from files.
Custom	RED-10871	Resolved issue with Joins to Views of Ranged and Changing Dimensions affecting Custom Targets.
Common	RED-10881	Fixed issues with RedCli Connection commands for the setting of default-load-template, default-load-script-template and default-load-script-connection.
Common	RED-10957	Fixed issue where deleting a column from any table could remove unrelated source mappings in some instances.

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WhereScape, Inc.
10801 N Mopac Expressway
Building 1, Suite 100
Austin, Texas 78759

www.wherescape.com