WhereScape®

WhereScape Red

Release Notes

8.1.1.0

WhereScape USA, Inc

1915 NW AmberGlen Parkway

Suite 400, Beaverton

Oregon 97006

United States

T: 503-466-3979

F: 503-466-3978

WhereScape Limited

P.O.Box 56569, Auckland 1446

12-16 Tapora Street

Quay Park

Auckland 1010, New Zealand

T: +64-9-358-5678

F: +64-9-358-5679

WhereScape Europe

450 Brook Drive

Green Park

Reading RG2 6UU

United Kingdom

T: +44-118-914-4509

F: +44-118-914-4508

WhereScape Asia Pte. Ltd

300 Tampines Avenue 5

#09-02 Singapore 529653

T: +65-6679-5728

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WHERESCAPE RED 8.1.1.0 APRIL RELEASE UPDATE

WhereScape is pleased to announce that WhereScape RED 8.1.1.0 is now available.

UPGRADING TO VERSION 8.1.1.0

Login to https://www.wherescape.com and download RED 8.1.1.0 from the downloads page in the **Support** section.

DETAILED CHANGES FROM PREVIOUS VERSIONS

Details of changes made in previous versions of RED are available on the https://www.wherescape.com/support/red-release-notes/ page in the **Support** section.

SIGNIFICANT NEW FEATURES AND IMPROVEMENTS IN RED 8.1.1.0

INTRODUCTION OF SOURCE MAPPING OBJECTS

Source mapping objects are introduced to improve the automation for a scenario where a data warehouse table is populated from more than one set of source data. This way, the target table can have more than one source mapping object. Each source mapping object contains metadata for the source table(s) that will provide the data for one procedure or script. A new graphical dialogue has been added to make the mapping between source and target tables more efficient. The resulting update procedure for the source mapping object can populate the target table sequentially with other source mapping objects associated with the target table or independently.

ALLOW CUSTOM AND POST-LOAD PROCEDURES TO BE GENERATED FROM A TEMPLATE

While custom procedure and post-load procedure can still be written manually starting from a RED procedure outline, they can also be generated from a template–in the same way update procedures are generated from a template.

ABILITY TO DISABLE LOAD TYPE OPTIONS BY TARGET DATABASE TYPE

While RED supports a number of load types for load tables, some customers don't use some of the available options. A new configuration screen has been added so that unwanted load options can be disabled by database type so that creating load objects don't include any unwanted load options.

ABILITY TO DISABLE INDEX GENERATION FOR A CONNECTION

The existing option that allows RED's creation of index objects to be disabled for tables in a custom database targets has been extended to all database targets. The default is enabled, creating indexes, for Oracle, SQL Server and DB2 and disabled for Teradata.

RESTART AND RESET FEATURES TO AID RECOVERY FROM TERADATA TPT LOAD FAILURES

When TPT loads on Teradata platforms fail, they result in load table locks and TPT checkpoint files that require manual remediation before subsequent loads for the same table can be attempted. With this new functionality a built in restart is performed if RED detects that the previous load failed and a manual reset function is provided, should a restart not be possible.

ABILITY TO IMPORT AND EXPORT TABLE AND COLUMN COMMENTS VIA A SPREADSHEET

Export and import functionality for table and column comments has been added. This allows the business to provide comments via a spreadsheet for the technical team for import. In addition if comments are maintained in a third-party application they can now be exported from this application and imported into RED via a spreadsheet.

IMPORTANT MESSAGES

- WhereScape from the RED 8.1.1.0 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 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.

Note: If upgrading from a previous version, please review and action all the previous version-specific **Important Messages** below, that are relevant for your RED Upgrade.

- 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.

Important Messages when upgrading from 6.8.6.0 or 6.8.6.1 or earlier

- Teradata 13.10 is no longer supported as a metadata repository/target from RED release, 6.8.7.0.

- SQL 2005 will no longer be supported as a metadata repository/target from RED release, 6.8.7.0. This is in line with Microsoft no longer providing extended support for SQL 2005 from April 12, 2016: **https://www.microsoft.com/en/server-cloud/products/sql-server-2005/**

- The SQL Block statement terminator has been changed from ';' to <EOS> from 6.8.6.2 onwards. If you have existing SQL Blocks which rely on ';' as the statement terminator you can change the default back to ';' in Tools>Options>Code Generation.

- Analysis Services connections running in Multi-dimensional mode have a new setting named SSAS Client Version, which enables users to target a specific version of the Analysis Services client run-time. If the SSAS Client Version is not explicitly set, RED will default to a setting of 2012.

- The existing template engine and the old Hive and PDW templates have been replaced with new versions. Any user created templates will need to be redone in the new language. Refer to the Templates chapter in the respective User Guide (chapter 23 for RED; chapter 24 for Teradata)

- License keys issued for version 6.8.6.1 allowing Custom targets or Custom object types are no longer accepted; you will require a new license key from WhereScape.

- If you have created objects stored on Tabular databases in version 6.8.6.0 and wish to Recreate the object(s), you should run **Relationships/Generate Relationships** on each object after upgrading RED. This only needs to be completed once before Recreating the object. See significant New Features and Improvements for more information.

Important Messages when upgrading from 6.8.5.0 or earlier

- Users with Export objects that use double quote character as an enclosing character will need to open and re-save the Properties for each Export Object.

- Customers using cursor based update procedures on SQL Server, Oracle and DB2: Note that we have changed the calls to procedures/functions get_<DIM_NAME>_key within the updated procedure generation to named notation.

- Changes were made to the WhereScape RED Target Licenses and customers with those licenses will need to have their licenses re-issued. Please contact your WhereScape Sales Representative or email sales@wherescape.com.

- APL users: All APL XML functionality has been migrated into Setup Administrator, including importing models from WhereScape 3D.

- The RED Generated Documentation is now using different images with different sizing. The format of the company_logo.jpg image has also been changed from .jpg to .png.
  Customers that have created their own banners will need to resize the images according to the table below and also convert the company_logo.jpg image to .png.
  The new .png files can be found in the WhereScape RED DocImages installer folder.

Previous Image File	New Image File	Action(s) required
1. company_logo.jpg (528 x 108) has been replaced by:	C:\Program Files (x86)\WhereScape\DocImages\ company_logo.png new image size: (408 x 134)	company_logo.jpg needs to be converted to company_logo.png and resized.
2. poweredbyred.png (331 x 100) has been replaced by:	C:\Program Files (x86)\WhereScape\DocImages\ poweredbyred.png new image size: (415 x 134)	poweredbyred.png needs to be resized.

Important Messages when upgrading from 6.8.4.0 or earlier

No important messages.

Important Messages when upgrading from 6.8.3.0 or earlier

No important messages.

Important Messages when upgrading from 6.8.2.0 or earlier

- For UNIX/Linux exports and loads in versions after 6.8.2.0, the logic used for defining the SID value for connecting to the repository has been modified. If the ORACLE_SID environment variable is set in your Unix/Linux environment, this will be the variable used. If this environment variable is not set, then the value from the Linux/Unix connection object will be used.

DETAILED CHANGES IN RED 8.1.1.0

The following changes have been implemented since Version 8.0.1.0.

Note: Details of changes made in previous versions of RED are available on the https://www.wherescape.com/support/red-release-notes/ page in the **Support** section.

Database	Key	Release Note
Improvements		
Teradata	RED-2975	Enhance update procedure for Teradata date dimension to improvement performance.
SQL Server	RED-8561	Implemented ability to process data from more than one source query into a single table independently from each other.
Common	RED-8648	Add source mapping objects to allow a single table to be sourced from more than one set of source tables and to be populated via more than one procedure or script.
Custom	RED-8766	Under some circumstances with custom databases, parameters were not being replaced by the scheduler. This has been fixed.
Common	RED-8947	XML file load type has been moved to an optional load type with the default setting for new repositories being to have this load type option disabled.
Common	RED-8954	Implemented option to allow for the disablement of load type options to improve load table creation workflow and improve standardization by removing unwanted options from relevant selection lists.
Teradata	RED-8955	Changed the default for new Teradata DW connections to disable the creation of database indexes.
Oracle and Teradata	RED-8958	Ability to populate RED DW tables from more than one independent source supported for Sql Server, Oracle and Teradata data warehouses.
Teradata	RED-8960	Changed the defaults for enabled load types for new installs on Teradata so that the following legacy types are not enabled: • SSIS • XML • Native ODBC **Note:** Customers that require these types can reenable them in **TOOLS > OPTIONS** menu."

Common	RED-8962	Add ability to build custom procedures based on templates with independent template, where/join criteria and build options from the primary update procedure.
Teradata	RED-8963	Implemented option to allow for the disablement of file load type options to improve load table creation workflow and improve standardization by removing unwanted options from relevant selection lists.
Teradata	RED-8974	Teradata ARC export / import feature has been retired.
Teradata	RED-8975	Improved code generation for Teradata join index objects that include aggregated columns.
Common	RED-9018	Added the ability to generate post-load procedures for load tables based in templates.
Teradata	RED-9023	The view sub-type dimension view has been deprecated and the view sub-type is the recommended option for views of dimension objects.
Common	RED-9024	The stage table sub-type permanent stage is deprecated and only available for backward compatibility for existing permanent stage table objects. WhereScape recommend the use of Data Store objects instead.
Teradata	RED-9028	The Teradata dimension table sub-type model table is deprecated and only available for backward compatibility for existing model table dimension table objects.
Common	RED-9032	Added logic to aid column transformation clauses not breaching allowable length limits.
Common	RED-9038	Add option to force use for targets and prevent the use of legacy local targets for new objects.
Teradata	RED-9096	Implement test for TPT load restart and not attempt pre-load truncate action in this scenario.
Common	RED-9103	Enhanced application loads from 3D to support the import of extended property assignments.
Common	RED-9137	Add capability to export and import table and column comments via an Excel spreadsheet.
Teradata	RED-9222	Introduced load table menu option to reset a load table following a failed TPT load.
SQLServer	RED-9251	The wsl_sqlserver_utility_dml and wsl sqlserver_proc_fact_set have been updated in this release.
Common	RED-9284	Web pages accessed from RED now displayed in default web browser rather than RED browser emulator.
Teradata	RED-8676	Simba Teradata ODBC driver version 16.10 certification undertaken.
Common	RED-9417	Added an option in the batch documentation feature to allow impact analysis on load tables to be disabled.

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Resolved Issues

SQLServer	RED-8934	Setup Administrator failed to save boolean settings in some circumstances. This has now been addressed.
Common	RED-9112	The following 4 new Pebble template variables have been introduced: • settings.sourceJoinDetails.distinct • settings.sourceJoinDetails.groupBy • settings.sourceJoinDetails.join • settings.sourceJoinDetails.where These replace the equivalent table.sourceJoinDetails variables so template developers can access these attributes for either the update or custom procedure/script metadata, rather than update procedure/script only.
Teradata	RED-9173	Increased the range of identity key values in the RED scheduler audit log table