



# WHERESCAPE RED RELEASE NOTES

*6.9.1.0*

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## WHEREscape RED 6.9.1.0 JUNE RELEASE UPDATE

WhereScape is pleased to announce that WhereScape RED 6.9.1.0 is now available.

### UPGRADING TO VERSION 6.9.1.0

Login to <https://www.wherescape.com> and download RED 6.9.1.0 from the downloads page in the **Support** section.

A full list of WhereScape RED's previous release notes is also available for download on the website.

## WHERESCAPE DATA VAULT EXPRESS™

### WHERESCAPE DATA VAULT EXPRESS™ PRODUCTION RELEASE

This is the official release version of WhereScape Data Vault Express.

WhereScape Data Vault Express™ includes Data Vault 2.0 enabled-versions of:

- WhereScape® 3D, a design tool for quickly designing and reality testing your Data Vault and analytics projects.
- WhereScape® RED, an integrated development environment for rapidly building, deploying, managing, and updating your data warehouse.

According to Dan Linstedt, (the founder/inventor of the Data Vault Model & Methodology):

*“WhereScape Data Vault Express can reduce the complexity and costs associated with building and updating Data Vaults to meet the standard, and dramatically shorten the learning curve for teams new to the Data Vault methodology.”*

*“WhereScape Data Vault Express enables and simplifies applying the Data Vault 2.0 standard for many IT organizations who want to improve the agility of their data warehouse, but are uncertain of success due to a lack of resources, knowledge or time”* said Dr Barry Devlin, founder and principal of 9sight Consulting.

### ENHANCED SUPPORT FOR DATAVAULT V2.0 STANDARDS

The Data Vault architecture is an alternative approach to modeling an enterprise data warehouse that has been gaining popularity among organizations.

The Data Vault data warehouse architecture was invented by Dan Linstedt to provide an alternative to the traditional data warehouse modeling approach that includes developing 3rd Normal Form (3NF) type models or dimensional star schema models. The Data Vault methodology seeks to improve the efficiency of data ingestion and the flexibility of structure changes. For more information about Data Vaults, please refer to Dan Linstedt’s website (<http://danlinstedt.com/solutions-2/data-vault-basics/>).

WhereScape RED has been enhanced to expand its current Data Vault functionality and provide improved automation for creating and managing Data Vault objects in WhereScape RED managed Data Warehouses. The enhancement includes the following:

- New DSS columns for Load tables
- New wizard for hash key generation
- New wizard for building Hub, Link and Satellite tables
- New templates for procedure generation

All these enhancements are designed to be compliant with Data Vault 2.0 standards and are described in the succeeding sections below.

## OTHER SIGNIFICANT NEW FEATURES

### SQL SERVER MULTIPLE DATABASE SUPPORT

The Multiple SQL database feature, which is applicable to a SQL Server data warehouse only, enables data warehouse tables to be distributed across multiple databases, instead of only a single database and thereby enables distinct data management at an individual database level.

Refer to the RED User Guide, Chapter 8.8 Distributing Tables across Multiple SQL Server Databases, for more information about using this feature in RED.

### POWERSHELL

The addition of the **PowerShell** capability provides users with the flexibility to use the additional features offered by PowerShell for Load and Export scripts. Users can still use the conventional Windows CMD scripting and the other tools, previously available in RED.

Refer to the RED User Guide, Chapter 22.9.1.1 Windows PowerShell Scripts, for more information about using PowerShell in RED.

### TABLE PROCEDURE UPDATE USING TEMPLATES

Template based procedure generation has been extended for all RED table objects on SQL Server, Oracle and Teradata database targets for increased flexibility to enable RED developers on these platforms to implement alternate procedure generation for their data warehouse objects.

For more information about using templates to generate Update Procedures in RED, refer to the RED User Guide, Chapter 8.1 Table Properties.

## KNOWN ISSUES AND IMPORTANT MESSAGES

- WhereScape recommends that RED customers building new Data Vault objects via 3D, use **3D release 2.10.0.0** and export models from this version to take advantage of the improved Data Vault objects and automation available in the 6.9.1.0 release.
- When exporting a RED design from 3D for use in a RED metadata repository stored in Teradata, it is essential to use 3D version 2.8.0.2 or later in order to avoid potential errors when generating procedures.
- In RED, File and Script-based loads from Windows connections now create a format file for the BULK INSERT operation in the Work Directory of the Windows Connection. This only applies when loading into a 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.
- 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.
- Cube and Cube Virtual objects are to be deprecated in a subsequent release. Cube objects must be migrated to OLAP Cube objects.
- "Runtime Libraries Error "Missing api-ms-win-crt-runtime-l1-1.0.dll" "  
Our Testing Team has discovered that, in some situations, a system error mentioning missing runtime libraries may occur. These Runtime Libraries are normally installed with the regular Windows Updates but can easily be added manually by following the Microsoft article:  
**<https://support.microsoft.com/en-us/kb/2999226>**  
Without this "Microsoft Visual C++ Redistributable for Visual Studio 2015" update installed, the OLAP, SSIS or MS Tabular Cube functionality may not function correctly.
- Setup Administrator will not import applications that have been exported as XML from old versions of WhereScape 3D. The applications will need to be re-exported from WhereScape 3D version 2.8.0.0 or later, as the XML file structure has changed.



## 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.

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**Note:** Please review and action all the previous version-specific messages below, that are relevant for your RED Upgrade.

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### Important Messages when upgrading from 6.8.7.0 or earlier

- **Legacy hub, link and satellite** objects, created in RED prior to 6.9.1.0 are still supported, and their maintenance and procedure generation is unchanged. The new hash key columns must be created for these objects to take advantage of the new data vault wizard 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 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.
- The **Linux Scheduler scripts for Oracle, Teradata and DB2** may have been altered and will need to be applied manually.

## 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](mailto: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 <b>converted</b> to <b>company_logo.png</b> and <b>resized</b> .
2. poweredbyred.png (331 x 100) has been replaced by:	C:\Program Files (x86)\WhereScape\DocImages\poweredbyred.png new image size: (415 x 134)	<b>poweredbyred.png</b> needs to be <b>resized</b> .

## 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.

## Older Versions

For older versions of RED Release Notes, refer to <https://www.wherescape.com/support/release-notes/>

## RESOLVED ISSUES IN RED 6.9.1.0

### Detailed Changes from Previous Versions

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

### Changes since 6.8.7.0

Database	Key	Release Note
<b>Improvements</b>		
Hive, Greenplum	RED-6178	Hive and Greenplum storage attributes added to html documentation.
Sql Server	RED-6356	OLAP Cubes can be created from objects that do not reside in the Metadata Repository.
Sql Server	RED-6454	There is no longer a line limit of 256 characters when running a File Export through the Windows Scheduler using BCP.
Custom	RED-7037	Imported tables will be marked as type "Custom" when the database name value from the XML file matches the custom text value inside the license file.
Common	RED-7763	A new template variable named 'format' has been added, which is present in each column variable used in template expansion and which contains the configured format of the column.
Teradata	RED-7880	Changes to primary indexes of some RED metadata tables to improve RED performance.
Common	RED-8014	Extended the template based procedure generation for remaining RED table objects across all database targets.
Common	RED-8206	RED Release notes are no longer provided within RED. A PDF version of the Release Notes is provided separately and can be downloaded from the WhereScape Support web page.
Custom	RED-8184	Resolved the issue where RED incorrectly reported a table as not existing after creating the table on a custom target.

<b>Resolved Issues</b>		
Common	RED-5330	A warning has been added to 'Deploy application create' when dependent procedures/scripts are removed from the application set.
Teradata	RED-7246	The After load transformation failure and "Unhandled exception in Ws_Act_Post_Load....." message when using the Teradata Linux scheduler has been fixed.
Common	RED-7338	The performance of generating an update procedure from a template has been improved, particularly for Teradata metadata repositories.
Oracle	RED-7606	The get-key function for a dimension can now be reused for other dimensions or dimension views based on that dimension by choosing the option to not use name parameter notation when generating the function.
Common	RED-7681	The issue that creating a job from the attached diagram resulted in an empty job being created has been fixed. The Job from Diagram functionality has been extended to 60 process/task steps.
Greenplum	RED-7777	The issue where the scheduler marks processes as "Completed" when the ODBC connection is refused, has been fixed and the Job completion status should now show failure if any tasks fail to connect to a target database.
Sql Server	RED-7799	Fixed a problem with creating views and dimension views via the scheduler on SQL Server where the source table of the view is stored in a schema or database other than that containing the metadata repository.
Sql Server	RED-7800	Fixed the problem where User Defined Views failed to create via scheduler when redeploying to a new environment.
Teradata	RED-7802	The issue has been fixed that caused an error message when editing and comparing a procedure to the compiled source.
Common	RED-7924	The issue has been fixed that caused a failure when using Native ODBC loads with transformations on columns with a data type of 'date'.
Common	RED-7967	Spurious 'Attempt to find object target info...' messages during Procedure Compile have been removed.
Netezza	RED-8102	The generated Changing Dimension Procedure for Netezza will now use the correct DSS start and end date values.
Sql Server	RED-8226	A problem where connections to the metadata repository were created but not closed when processing OLAP Cube objects has been fixed.