

WhereScape®

WhereScape® RED

Release Notes

Version 10.2.0.0 | August 2024

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WhereScape RED 10.2.0.0 Release Update

WhereScape is pleased to announce that WhereScape RED 10.2.0.0 is now available.

Downloading version 10.2.0.0

Go to <https://www1.wherescape.com> to see available product versions and documentation.

Login to the [WhereScape Support Portal](#) to access downloads.

Kind Regards,

WhereScape RED Team

Significant New Features and Improvements

WhereScape presents RED 10.2 a new version of RED with new capabilities and features to enhance the user experience. This version includes Advanced Authentication Methods.

Advanced Authentication Methods

The Advanced Connect feature provides a new way to manage connection security and modify ODBC connection attributes in RED enabling a wide variety of authentication mechanisms for your metadata, source, and target connections. This feature combines session-based authentication, complete control over ODBC connection strings, and secure encrypted storage of passwords.

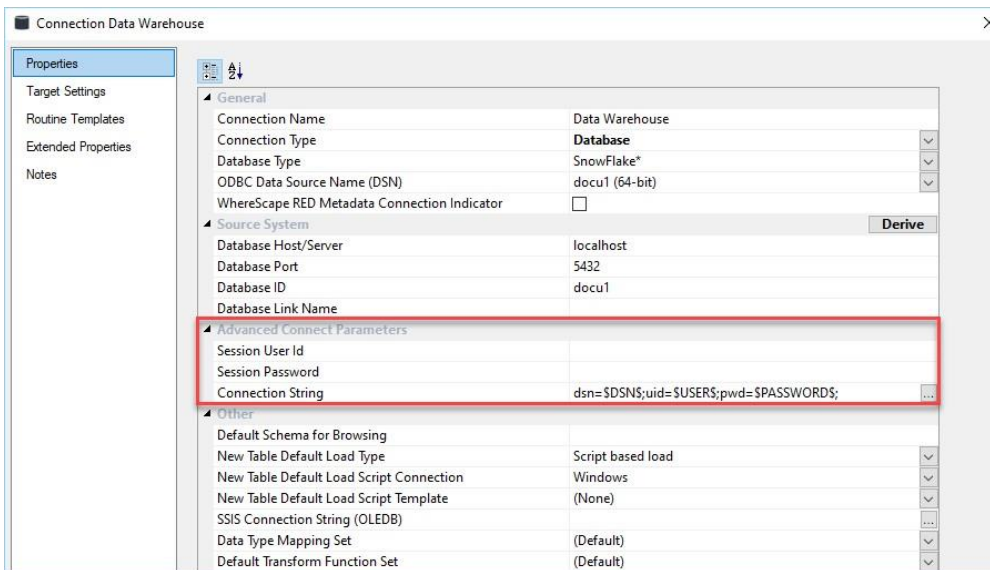
This feature is designed with security in mind and adds even more ways for enterprises to secure their metadata, sources, and targets for a wide variety of authentication methods such as OAuth, Azure Active Directory, and multifactor authentication (depending on vendor driver capabilities). Please see the User and Installation Guides for more details.

Advanced Connect is always enabled in RED 10.2 and therefore a connection string must be defined for every ODBC, Database and applicable Extensible Source Connections in RED. The connection string will always be used when establishing ODBC connections from this release onwards. RED provides suitable default connection strings when not provided by the user.

In conjunction with Advanced Connect, RED Profiles are used to store encrypted user specific credentials outside the metadata, for the RED UI these profiles are stored on disk using Windows DPAPI encryption, for the Azkaban Scheduler the profile is stored within a new metadata table in the 'redadmin' schema and encrypted with a new encryption utility provided in this release.

RED Login Screen showing the new fields 'Profile' and 'Connection String':

RED Connection Properties Screen showing the new Advanced Connect Parameters:



Stand-alone Script Improvements

Stand-alone scripts can now be associated with Database/ODBC and Extensible Source Connections providing access to the associated connection settings and Credentials in your scripts.

This feature is particularly useful for “High Water Mark” scripts that require access to target connection properties. When combined with Advanced Connect this provides a secure way to run scripts directly against source and target connections in RED. Previously you could only associate a Windows or Linux connections to scripts.

Online Documentation

The WhereScape product family is moving towards online product documentation which allows us to keep the documentation more up to date outside of traditional release cycles and continue to make improvements that enable our customers to use our products to their full potential.

From this release onwards when using the in-product help you will be redirected to our documentation website hosted on <https://wiki.idera.com/category/ws> . Contextual product help buttons are not yet linked to the relevant pages and instead take you to the landing page, contextual based help links will follow soon. For offline documentation requirements you will still be able to download the full user guide PDF's.

WhereScape 3D Compatibility

This release of RED is compatible with WhereScape 3D 9.0 versions and up for 3D exports to RED but it is recommended to use the latest version of 3D to provide all feature capabilities.

Customer Improvements

This release also includes the customer enhancements and support fixes listed in the following section.

Important Messages when Upgrading from Earlier Versions

When Upgrading from previous versions of RED, the RED metadata, Azkaban metadata or both may need upgrading. For RED the requirement to upgrade is enforced at login when there is an application version mismatch, but it is best practice to validate and upgrade the metadata after every RED application upgrade. Refer to the Upgrading WhereScape RED section of the RED User Guide for more details.

If there are important updates to the Azkaban metadata these will be indicated in the important upgrade messages that follow. Refer to the Upgrading Azkaban section of the RED User Guide for more details.

Important Messages when upgrading to 10.2.0.0

Upgrading RED

Version 10.2.0.0 has potentially breaking changes for upgraded repositories; therefore, upgrades should be tested thoroughly before upgrading production environments:

- All ODBC, Database, Extensible Source Connection and Scheduler Configuration credentials have moved to the RED Profile, therefore each user of RED should generate their own local profile file (see the user guide for details) to continue using RED.
- All Azkaban components require upgrading and the encrypted Scheduler profile records added to redadmin.ws_scheduler_profile (see the user guide for details) in order for jobs to run.
- Post upgrade it is encouraged to remove all credentials from the metadata since these should now reside in the in-memory session level credentials only. Run the following update on the metadata to achieve this:

```
-- Remove credentials from Database, ODBC and Extensible Source connections
UPDATE red.ws_dbc_connect
SET dc_extract_userid="", dc_extract_pwd="", dc_admin_userid="", dc_admin_pwd=""
WHERE dc_type IN ('D','O','Z');

-- Remove credentials from Scheduler Configuration
UPDATE red.ws_wrk_external_scheduler
SET wes_dashboard_userid="", wes_dashboard_pwd="", wes_restapi_userid="", wes_restapi_pwd=";
```

Version 10.1.0.0 has potentially breaking changes for upgraded repositories; therefore, upgrades should be tested thoroughly before upgrading production environments. The potential issues after the upgrade are the following:

- Default Routine Template settings might be lost. For object types other than Load and Export these settings have been moved from target connections to the Object Subtypes. During the metadata upgrade process, the first target-enabled connection found is used to populate the new settings under Object Subtypes. If you have multiple target-enabled connections in your repository, the optimal connection may not be used for the settings transfer. Ensure to check the Object Subtypes maintenance wizard after an upgrade to this version and set any missing/incorrect default routine templates as required. Note: this configuration can be exported from test to production once resolved in test.
- [TABLEOWNER] an \$OBJECT\$ token expansion no longer expands empty schemas to an additional '.' in table names. This means from this release onwards you must specify the actual schema name in target location settings when schema is required on your platform. Ensure to check your target location settings for target connections before upgrading and populate the schema field, if required.

Upgrading Azkaban

This version 10.2.0.0 has changes to the Azkaban components; therefore, all Azkaban Web Servers and Executor Servers need upgrading as well as the Azkaban metadata.

- In RED 10.2 Advanced Connect is always enabled and therefore there are new azkaban.local.properties fields (and response.xml tags) required that support this feature. Automated install script will need to take into account these new fields. Each of the Azkaban metadata, Azkaban Web Servers and Azkaban Executors will need to be upgraded to work with this release.

Upgrading Azkaban is currently a manual process, please refer to the RED User guide for detailed upgrade instructions.

Change history for Azkaban components requiring upgrades (changes are cumulative):

- 10.2.0.0: New required fields for azkaban.local.properties and installer response.xml for Advanced Connect. Stand-alone script execution enhancements.
- 10.1.0.1: Log4j components upgraded to log4j2 to resolve logging issues.
- 10.1.0.0: Improvements when canceling running jobs. Component upgrades.
- 10.0.1.0: Added procedure support and long host names fix
- 10.0.0.0: First release

Upgrading Scheduler Integration Scripts

The default scheduler integration publish script has improved and can optionally be upgraded in RED. Refer to the RED user guide for detailed upgrade instructions.

Change history for integrations scripts requiring manual upgrade (changes are cumulative), upgrades are optional unless marked as required:

- 10.2.0.0:
 - wsl_scheduler_publish - Required upgrade - Advanced Connect feature added
 - wsl_scheduler_lookup - Added version header and removed unused parameters
 - wsl_scheduler_dashboard - Added version header and removed unused parameters
 - wsl_scheduler_profile_maintenance - New script for maintaining the scheduler profile
- 10.0.0.3: wsl_scheduler_publish - Support for republishing when existing job not found. Improved logging.
- 10.0.0.2: wsl_scheduler_publish - Added support for disabled tasks.
- 10.0.0.0: First release

Detailed Changes in RED 10.2.0.0

The following changes have been implemented since 10.1.0.2

- **RED-11900** Updated the WslMetadataServiceClient.dll to work with the connection string arg. Updated the scheduler integration script to use the metadata connection string
- **RED-11895** RED Help (User and Installation Guide) is no longer installed with the product and now links to the online documentation at <http://wiki.idera.com/category/ws>
- **RED-11829** Azkaban core components and RED Azkaban plugin updated for Advanced Connect feature.
- **RED-11821** Improvements to the Windows Azkaban Scheduler installer to support Advanced Connect with DPAPI encryption
- **RED-11816** Added an encryption utility
- **RED-11813** Moved the RED Scheduler Configuration credentials to the RED Profile
- **RED-11752** Stand-alone scripts can now be associated with Database and Extensible Source Connections providing access to target settings and credentials
- **RED-11745** Added Advanced Connect feature to RED 10 and forced its usage, this has potentially breaking changes, please refer to the important upgrade messages

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