

WhereScape® RED

Release Notes

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WhereScape RED 10.5.0.1 Release Update

WhereScape is pleased to announce that WhereScape RED 10.5.0.1 is now available.

This release of RED is compatible with WhereScape 3D 9.0 versions and up.

Note: Before upgrading, review the [Important Messages when Upgrading](#) for more information.

Go to <https://www1.wherescape.com> to see available product versions and release notes for older versions.

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

Access the User Guide [here](#).

New Features and Improvements in RED 10.5.0.1

WhereScape presents RED 10.5, a new version of RED. The features implemented in this version are mainly focused on improving the experiences of installation and upgrades.

Upgrade Process

A new scheduler upgrade wizard has been developed which streamlines the upgrade process and reduces the number of manual steps required during scheduler upgrades.

Authentication profiles are now created automatically when upgrading from a version of RED which does not include the advanced connect feature. Refer to the [Upgrade on Windows guide](#) for more information.

Installation

Metadata databases and DSN's for RED and the Azkaban Scheduler can now be created using the installation wizards, reducing the number of manual steps required during new installs. For more information refer to the [metadata installation](#) and [scheduler installation](#) guides.

Profile Maintenance

A new scheduler profile maintenance wizard has been developed with an enhanced UI. For more information refer to the [Scheduler Maintenance](#) documentation.

Increased limits

- The maximum number of projects and groups can now be configured, allowing for over 1000 projects and groups in a single repository. This can be changed on the [Other Options](#) window.
- Increased the character limit on FROM/WHERE clause for views to 65344 characters.

RED med.exe (RED UI)

When starting med.exe (RED UI) from a command line with all the required metadata connection elements provided, you can now provide an additional switch '--auto-connect' which will skip the interactive login screen to RED.

Added RED UI ODBC connection resilience, idle connections are tested before use and recovered if broken. Idle time before testing and test response time can be fine-tuned via user preferences. Visit the med.exe [Client Command Line documentation](#) for this and other available options.

Scheduler

RED's job plugin for Azkaban now accepts the legacy RED 9 script output protocol when executing stand-alone scripts via a scheduler job, this feature eases migrations to RED 10 by reducing script refactoring and testing.

Other Improvements and Fixes

In addition to the major improvements above please see the following Detailed Changes section for the full list of customer fixes and improvements in this release.

Detailed Changes in RED 10.5.0.0

The following changes have been implemented since 10.4.0.3

New Features

- RED-10686 New Scheduler upgrade workflow automating many of the manual steps that were required.
- RED-12257 The WhereScape RED metadata database and DSN can be automatically created using the RED Setup Wizard.
- RED-12102 The Scheduler metadata database can be automatically created during the scheduler installation process.
- RED-12103 New RedSchedulerProfileMaintenance.exe for maintaining the Schedulers authentication profiles.

Improvements

- RED-12100 Authentication profiles are created automatically when upgrading from a version of RED without the Advanced Connect feature.
- RED-11462 Jobs stuck in the running state can now be aborted in the RED UI.
- RED-12256 On hold jobs are no longer retained when processing objects via the scheduler interactively.
- RED-4786 The maximum number of projects and groups can now be configured, allowing for over 1000 projects and groups in a single repository.
- RED-5905 Increased the character limit on FROM/WHERE clause for views to 65344 characters.
- RED-12278 Added RED UI ODBC connection resilience, idle connections are tested before use and recovered if broken. Idle time before testing and test response time can be fine-tuned via user preferences.
- RED-12130 Improved performance of object properties storage tab initialization when using a Teradata target.
- RED-12290 RED's job plugin for Azkaban now accepts the legacy RED 9 script output protocol when executing stand-alone scripts via a scheduler job, this feature eases migrations to RED 10 by reducing script refactoring and testing.
- RED-12285 The Connection field 'Database Link Name' is now available to scripts as an environment variable 'WSL_LOAD_DBLINK' so that scripts can build the appropriate source SQL statements at run-time.
- RED-12289 When starting med.exe (RED UI) from a command line with all the required metadata connection elements provided, you can now provide an additional switch '--auto-connect' which will skip the interactive login screen to RED.

Fixes

- RED-12293 Fixed a metadata insert failure when defining Reusable Transformations in RED 10.
- RED-12274 Fixed an issue deploying the default 3D entity types Dim View and Retro to RED, now these entity types are correctly mapped during deployment.

Detailed Changes in RED 10.5.0.1

The following changes have been implemented since 10.5.0.1

Fixes and Improvements

- RED-12347 Fixed a 3D export to RED issue where Named Targets; SQL Server, Oracle and Teradata were unable to be resolved during deployment.

Important Messages When Upgrading

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 10.5.0.1

Upgrades are cumulative, therefore you should read all upgrade messages for each version between your current RED version and this version of RED.

Upgrading RED

RED 10.3.0.0 through to 10.5.0.0

- There are no important messages for upgrading RED to these versions, but please consider the cumulative upgrade messages below when upgrading.

RED 10.2.0.0

10.2 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.
- For new installs, from RED 10.2.+, you will find the wsl_scheduler_profile_maintenance host script under your Host Script's in your RED metadata repository (see the [user guide](#) for details). For upgraded repositories you will need to load this script into RED manually from
`<RED_Installation_Directory>\Administrator\Scripts\wsl_scheduler_profile_maintenance.ps1`
- All Azkaban components require upgrading and the encrypted Scheduler profile records added to redadmin.wsl_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 after upgrade

-- 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=";
```

RED 10.1.0.0

10.1 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

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

Azkaban 10.5.0.0

- RED 10.5.0.0 added functionality to remove interactive scheduler jobs after execution. The Azkaban Web Server, each Azkaban Executor and the scheduler integration script wsl_scheduler_publish will need to be upgraded to take advantage of this feature.

Azkaban 10.4.0.0

- RED 10.4.0.0 improves logging from metadata connection resilience so that the actual reason given by the driver is logged when reconnecting. Additionally, improvements have been made to the RED Job Plugin. The Azkaban Web Server and each Azkaban Executor will need to be upgraded to take advantage of these features.
- RED 10.4.0.1 Minor improvements have been made to the RED Job Plugin. Each Azkaban Executor will need to be upgraded to take advantage of these optional fixes.

- RED 10.4.0.2 Minor improvements have been made to the RED Job Plugin. Each Azkaban Executor will need to be upgraded to take advantage of these optional fixes.
- RED 10.4.0.3 Minor improvements have been made to the RED Job Plugin. Each Azkaban Executor will need to be upgraded to take advantage of these optional fixes.

Azkaban 10.3.0.0

- RED 10.3 improves the metadata connection resilience in both the Azkaban Web Server component and RED Job Plugin. Each of the Azkaban metadata, Azkaban Web Server and Azkaban Executors will need to be upgraded to take advantage of these features.

Azkaban 10.2.0.0

- 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. Any automated installation scripts will need to take into account these new fields. Each of the Azkaban metadata, Azkaban Web Server and Azkaban Executors will need to be upgraded to work with this release.

Azkaban Change history

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

- 10.5.0.0: Added functionality to remove interactive scheduler jobs after execution.
- 10.4.0.3: Scheduler-util.jar is now thread safe when using generic action processing scripts. Job and task log stats are now updated to RED so that warnings are correctly signalled in the UI.
- 10.4.0.2: Scheduler-util.jar has a new method that allows running RED script objects standalone.
- 10.4.0.1: Standalone Batch\Unix\Linux script support. Fixes for resolving references to Dim View objects.
- 10.4.0.0: Connection resilience logging improvements. Bug fixes for RED Job Plugin. Component upgrades.
- 10.3.0.0: Azkaban/RED metadata connection resilience improvements. Component upgrades.
- 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 cancelling 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 scripts are often improved, occasionally these improvements are required to work with a new release. Please refer to the change history below and refer to the RED user guide for detailed [upgrade instructions](#).

Integration Scripts Change History

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

- 10.5.0.0:
 - `wsf_scheduler_publish` - Added functionality to remove interactive scheduler jobs after execution.
- 10.4.0.0:

- wsl_scheduler_publish - Fallback to script run directory when WSL_WORKDIR is not set. Cleanse API URL by removing trailing '/' before using it.
 - wsl_scheduler_lookup - Cleanse API URL by removing trailing '/' before using it.
 - wsl_scheduler_profile_maintenance - Added special row for WSL_SCHEDULER_API entry, improved connection ordering in UI.
- 10.3.0.0: No changes
- 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.

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