

# WhereScape® RED

## Release Notes

Version 10.3.0.0 | October 2024

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## WhereScape RED 10.3.0.0 Release Update

WhereScape is pleased to announce that WhereScape RED 10.3.0.0 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](#).

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## New Features and Improvements in RED 10.3.0.0

WhereScape presents RED 10.3 a new version of RED with new features that ease RED 10 migrations and continue to enhance scheduling capabilities. The features implemented in this version are mainly focused on enabling RED 10 migration pathways for traditional RED customers on SQL Server, Oracle and Teradata inbuilt targets.

### Target License Improvements

RED 10 now accepts existing Oracle and Teradata licenses for use on RED 10 PostgreSQL metadata.

Additionally, RED target licenses for SQL, Oracle and Teradata now allow those traditional target types and their accompanying options in RED without the need to use a Custom target license. Unlike these targets in RED 9 and below, these target types will employ a completely template and configuration driven automation approach and will require an accompanying Target Enablement Pack just as existing targets on RED 10 do.

Note: Enablement packs to support these traditional RED target types in RED 10 will soon follow.

### Other Improvements

This release also includes over 20 customer improvements and fixes, please refer to the [Detailed Changes](#) section for the full list, but here are a few of note:

#### Scheduler

The RED metadata connection resilience of the WhereScape Job Plugin for Azkaban has been improved, allowing automatic recovery from intermittent connectivity issues. This feature ensures jobs are resumed as required and the RED job metadata is kept up to date with the Azkaban job run status.

The Azkaban Web Server's connection to the RED metadata has also undergone connection resilience improvements allowing recovery from intermittent RED metadata connectivity issues.

#### Application Deployment

Simplified application deployment DML and DDL logging. The feature of logging DML and DDL to a file during deployment was conditional on another setting that disabled deployment changes on the target warehouse, now the logging will be generated regardless of other settings.

Deployment of Custom Object Sub-Types from 3D to RED requires the equivalent Object Sub-Types to exist in RED for successful deployment and code generation automation, the error messaging has been improved to list all Object Sub-Types which do not have a match in RED so that the synchronization between the configurations can more easily be resolved by the user.

#### Advanced Connect

Improved save workflow for RED Profiles so that passwords are not lost inadvertently when forgetting to tick the save passwords checkbox. Also fixed an issue where the last logged in profile was not remembered at the RED Login Screen

## Detailed Changes in RED 10.3.0.0

The following changes have been implemented since 10.2.0.0

### Improvements

- RED-11870 Existing RED Oracle and Teradata licenses are now accepted in RED 10 and Target Types SQL, Oracle and Teradata have been enabled.
- RED-11800 Added multi-select capability to the tree view controls in 'Project Object Maintenance' and 'Job Tasks Definitions' screen.

- RED-11927 Improved RED metadata connection resilience of the WhereScape Job Plugin for Azkaban.
- RED-11893 Improved connection resilience between Azkaban Web Server and the RED Metadata.
- RED-11072 Simplified deployment setting 'Log Metadata DML and Data Warehouse DDL to a File' to always be honored regardless of other settings.
- RED-11965 When saving an Advanced Connect Profile, 'Include Session Passwords' is now selected by default.
- RED-11966 Last Profile is now remembered at the RED login screen.
- RED-11854 Updated 3rd party libraries in Azkaban components.
- RED-11002 Added a new User Preference to allow override of Template operation timeout.
- RED-11881 Improved 3D to RED deployment failure messages when deploying new Object Subtypes which don't match to RED parent types.

## Fixes

- RED-11844 Resolved errors when copying or moving projects with nested object tree view enabled.
- RED-11806 Fixed "Cannot retrieve default template" error after reverting a target connection from a version.
- RED-11852 When creating new tables, with nested object tree view enabled, the new table is now correctly positioned in the object tree.
- RED-11650 Fixed truncated dialog label in Scheduler Refresh Settings.
- RED-11771 Fixed a deployment issue from 3D affecting tables with multiple surrogate key joins, where only the first column's join metadata was populating.
- RED-11929 Resolved an issue where RED could crash when Data Vault Hash Key column name length exceeded 64 chars.
- RED-11969 Fixed issue where the metadata port was not added as an environment variable for scripts.
- RED-11562 Fixed an issue where Documentation Generation could lead to application crash in some cases when using remote desktop software.
- RED-11988 Fixed issue with 3D integration with RedDeploy not honoring the Profile selected.
- RED-11941 RedCli Connection Add/Modify now ignores credentials args to avoid them being entered into the metadata.
- RED-11984 Fixed issue where a trailing semicolon was incorrectly added to procedures compiled through RED UI for Custom targets.

## 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 10.3.0.0

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

- There are no important messages for upgrading RED to this release, 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.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 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.

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## Upgrading Azkaban

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

### 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):

- 10.3.0.0: 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 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 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:

- 10.3.0.0: 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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