

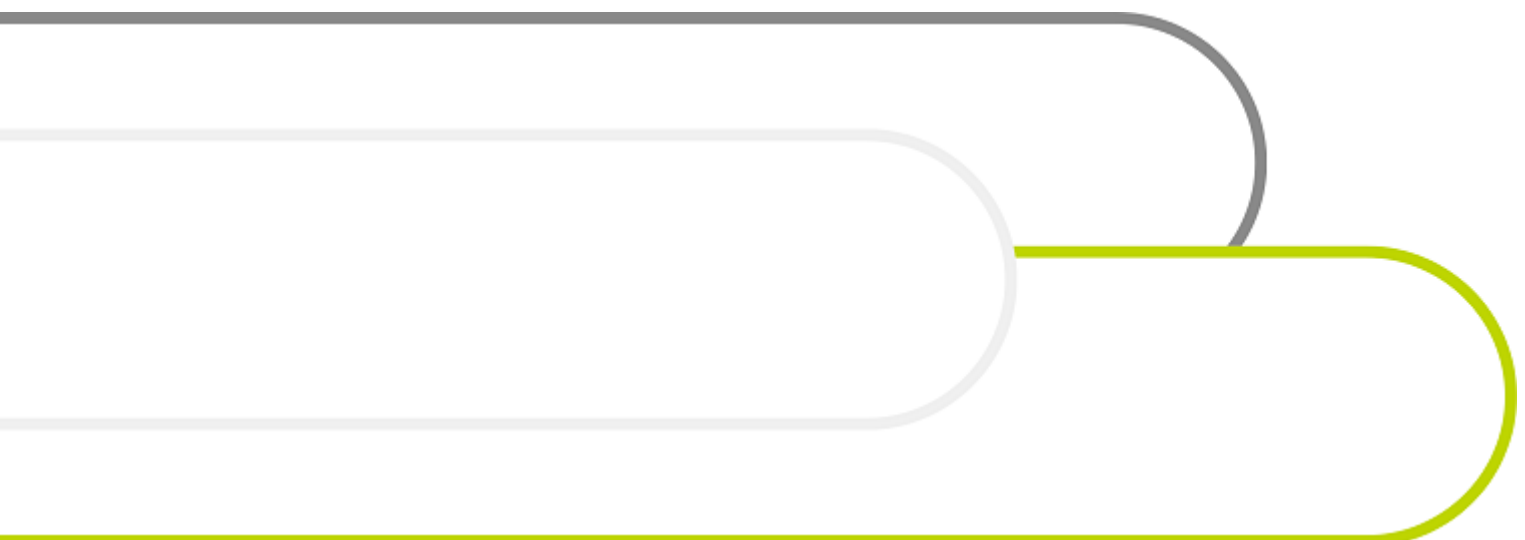
Credentials Store Upgrade

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Credentials Store Upgrade

The following security enhancement is part of the Therefore™ Online v34 release.

Therefore™ Credentials Store: Security

In Therefore™ Online v34, the security concept for storing FTP and web credentials has changed. Instead of entering credentials while configuring a Call REST Service task, Export Document task, or a Referenced Web Service, credentials are entered under the central credentials store once and referenced in configurations.

Administrators register a secret, for example a username and password in combination with a domain.

The secret is bound to a domain. Accordingly, administrators will have to re-enter credentials if the domain is changed. This is a security measure to ensure that credentials can not be stolen by changing the domain they are bound to.

Upgrade Process

During the upgrade, Therefore™ collects the secrets stored in workflow task configurations and creates entries in the central credentials store based on them. If the workflow tasks were correctly configured, workflows will keep working as intended after the upgrade.

However, there are common configuration patterns that lower the probability of a seamless upgrade and, in some cases, require a reconfiguration before the upgrade. They use macros from index data fields in the domain part of a REST URL, meaning that the domain can be changed via an index data change. These configuration are not in line with security best practices.



Note: Macros outside of domains

Using macros in REST URLs outside of domains is supported. For example, the following configuration is legitimate:

```
https://moyaware.domainname.com/api/v2/search/[Field ID]
```

Authorization: None

A common configuration pattern is to create an activation category in Therefore™ in which both domains and secrets are stored as index data, and called in the REST configuration via an initialization script. This is an unsafe way of storing secrets: even if they are stored encoded in base 64, this is not encryption and storing credentials in this way is a significant security risk. This pattern is essentially an attempt at creating a credentials store in an activation category in a very vulnerable way.

Setting the authorization in a REST call to 'None' tells Therefore™ that no credential is used in the REST call. For that reason, Therefore™ will not move secrets stored in this type of configuration to the central credential store. This type on configuration will keep working after the upgrade - however, it is unsafe and the administrator should switch to the credentials store as soon as possible to enhance security.

Authorization Used in Call REST Service task

If authorization is configured in a Call REST Service task, Therefore™ will, as mentioned in the introduction, take the credential from this configuration and move it to the central credentials store.

However, if macros were used in domains the configuration may stop working entirely. That is because if a macro was used in the domain the credential in the central credentials store will include the macro but it will not be resolved during calls.

The following REST URLs are examples of storing the domain in index data fields:

`https://[Field ID].thereforeonline.com/theservice/...`

`[Field ID 1]://[Field ID 2].[Field ID 3]/theservice/...`

During the upgrade, Therefore™ will check the database content to see how many values exist in a given index data field. If there is exactly one (1) value it will be used to resolve the macro. If there are different or no values for the index data field the macro will remain unresolved and the call will not work after the upgrade.

Recommended Action

The following action is recommended for Therefore™ Online administrators:

Configurations with Authorization

The following action is recommended before the upgrade:

- Check whether there are tasks with macros in the domain part of the URL
- If such configurations exist, and there might be macros with multiple or no values used in the database then reconfigure the task. The Therefore support hotline can help with identifying problematic configurations

Configuration Stops Working after Upgrade

The following action is recommended if a configuration stops working after the upgrade:

- Go to the new central credentials store under 'Integrations'
- Find the base URL containing a macro and resolve it manually

Authorization: None

The following action is recommended if authorization in a Call REST Service task is set to None and the credential is set using a different method:

- Reconfigure these Call REST Service tasks and make use of the new credential store



Priority should be given to removing all passwords and/or secrets from index data and the activation category

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