FactoryTalk AssetCentre Utilities User Manual

Version 16.00.00

Rockwell Automation

User Manual

Original Instructions

Important User Information

Read this document and the documents listed in the additional resources section about installation, configuration, and operation of this equipment before you install, configure, operate, or maintain this product. Users are required to familiarize themselves with installation and wiring instructions in addition to requirements of all applicable codes, laws, and standards.

Activities including installation, adjustments, putting into service, use, assembly, disassembly, and maintenance are required to be carried out by suitably trained personnel in accordance with applicable code of practice.

If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

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Throughout this manual, when necessary, we use notes to make you aware of safety considerations.

WARNING: Identifies information about practices or circumstances that can cause an explosion in a hazardous environment, which may lead to personal injury or death, property damage, or economic loss.

ATTENTION: Identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss. Attentions help you identify a hazard, avoid a hazard, and recognize the consequence.

IMPORTANT: Identifies information that is critical for successful application and understanding of the product.

These labels may also be on or inside the equipment to provide specific precautions.

SHOCK HAZARD: Labels may be on or inside the equipment, for example, a drive or motor, to alert people that dangerous voltage may be present.

BURN HAZARD: Labels may be on or inside the equipment, for example, a drive or motor, to alert people that surfaces may reach dangerous temperatures.

ARC FLASH HAZARD: Labels may be on or inside the equipment, for example, a motor control center, to alert people to potential Arc Flash. Arc Flash will cause severe injury or death. Wear proper Personal Protective Equipment (PPE). Follow ALL Regulatory requirements for safe work practices and for Personal Protective Equipment (PPE).

The following icon may appear in the text of this document.

Identifies information that is useful and can help to make a process easier to do or easier to understand.

Rockwell Automation recognizes that some of the terms that are currently used in our industry and in this publication are not in alignment with the movement toward inclusive language in technology. We are proactively collaborating with industry peers to find alternatives to such terms and making changes to our products and content. Please excuse the use of such terms in our content while we implement these changes.

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Overview

To help you perform operations that are outside of the capabilities present in the FactoryTalk® AssetCentre desktop and web client, an array of tools is available for specific tasks. This manual introduces these tools and how to use them.

The following list shows these tools by categories and what they are used for.

System reporting

- FactoryTalk AssetCentre Archive Activity Reporting Utility on page 5

  Perform historical activities reporting on a FactoryTalk AssetCentre archive.

- FactoryTalk AssetCentre Log Reporting Utility on page 5

  Perform historical reporting on FactoryTalk AssetCentre Audit, Event, or Diagnostics and Health logs.

- FactoryTalk AssetCentre Asset Tree Reporting Utility on page 6

  Perform reporting on asset properties, asset numbers, and so forth, of a FactoryTalk AssetCentre asset tree.

- FactoryTalk AssetCentre Database Version Determination Utility on page 7

  Determine the version of the FactoryTalk AssetCentre database on the system.

System cleanup

- FactoryTalk AssetCentre Log Cleanup Utility on page 11

  Remove accumulated Event, Audit, or Diagnostic and Health logs that are no longer useful from the database.

- FactoryTalk AssetCentre Archive Cleanup Utility on page 13

  Remove accumulated versions of archived files that are no longer useful from the database.

Data extraction

- FactoryTalk AssetCentre Archive Extractor Utility on page 15

  Perform a Get operation on the latest or pinned version of each archived file if the system fails.

- FactoryTalk AssetCentre Event Log Attachment Extractor Utility on page 19

  Extract log file attachments of the last run event task if the system fails.

Asset management

- FactoryTalk AssetCentre Import Export Utility on page 23

  Create a mass of new assets, import assets with customized properties, and edit or duplicate assets of an asset node.

- FactoryTalk AssetCentre Abandoned Assets Cleanup Utility on page 32

Discover assets that have an invalid hierarchical parent listed and recover them in the asset tree.

- FactoryTalk VersionWorks Import Utility on page 33

  Import VersionWorks projects into the FactoryTalk AssetCentre asset tree as binders.

FactoryTalk AssetCentre Archive Activity Reporting Utility

While the client offers information on all archived files, it is possible to perform broader analysis of the archive contents using SQL Server® , including historical archive activity and archive asset types. Use the Archive Activity Reporting Utility to perform historical reporting on a FactoryTalk AssetCentre archive, outside of the capabilities present in the FactoryTalk AssetCentre desktop and web client. This tool can be used to install a SQL Server view into the AssetCentre database on the system's SQL Server. It automatically configures and creates the SQL Server view, rpt_ArchiveActivityLog, in the AssetCentre database. Using the newly installed view, you can query and potentially export information on the entire archive's contents.

How to find the FactoryTalk AssetCentre Archive Activity Reporting Utility

1. Sign in to Rockwell Automation Knowledgebase, and then search Knowledgebase Document ID: IN24014 - Historical Reporting on a FactoryTalk AssetCentre Archive.
2. In the **Attachments** section, download ArchiveActivityLogView.sql.

To perform historical reporting on a FactoryTalk AssetCentre archive

1. Put the tool on the SQL Server computer.
2. Double-click **ArchiveActivityLogView.sql**.
3. If the SQL Server management tool is not open, when the **Connect to Database Engine** dialog shows, verify the server name and authentication, and then click **Connect**.
4. Click anywhere on the **ArchiveActivityLogView.sql** tab, and then click **Query > Execute** or click **Execute** on the toolbar.
5. In the **Object Explorer**, navigate to **Server name > Databases > AssetCentre > Views**, right-click **dbo.rpt_ArchiveActivityLog**, and then select **Select Top 1000 Rows**.
6. On the **Results** tab, view the information on archive activities.

   You can also right-click anywhere on the **Results** tab, and then select **Save Results as** to save the information in a CSV file.

FactoryTalk AssetCentre Log Reporting Utility

The Audit logs only show up to last 500 records in the FactoryTalk AssetCentre desktop client and 2500 records in the FactoryTalk AssetCentre web client. While the client offers the searching capabilities intrinsically, broader queries can be accomplished using SQL Server. Use the Log Reporting Utility to perform historical reporting on FactoryTalk AssetCentre Audit, Event, or Diagnostics and Health logs, outside of the searching capabilities present in the FactoryTalk AssetCentre desktop and web client. This tool can be used to install a set of SQL Server views into the AssetCentre database on the system's SQL Server. It automatically configures and creates the SQL Server views, rpt_AuditLog, rpt_EventLog, and rpt_DiagHealthLog, in the AssetCentre database. Using the newly installed views, you can query and potentially export audit, event, and/or network health and diagnostics logs.

How to find the FactoryTalk AssetCentre Log Reporting Utility

1. Sign in to Rockwell Automation Knowledgebase, and then search Knowledgebase Document ID: QA12027 - FactoryTalk AssetCentre: Historical Reporting on Audit and Event Logs.
2. In the **Attachments** section, download LogViews.sql.

To perform historical reporting on FactoryTalk AssetCentre logs

1. Put the tool on the SQL Server computer.
2. Double-click **LogViews.sql**.
3. If the SQL Server management tool is not open, when the **Connect to Database Engine** dialog shows, verify the server name and authentication, and then click **Connect**.
4. Click anywhere on the **LogViews.sql** tab, and then click **Query > Execute** or click **Execute** on the toolbar.
5. In the **Object Explorer**, navigate to **Server name > Databases > AssetCentre > Views**, right-click **dbo.rpt_AuditLog**, **dbo.rpt_DiagHealthLog**, or **dbo.rpt_EventLog**, and then select **Select Top 1000 Rows**.
6. On the **Results** tab, view the information on Audit, Event, or Diagnostics and Health logs.

   You can also right-click anywhere on the **Results** tab, and then select **Save Results as** to save the information in a CSV file.

FactoryTalk AssetCentre Asset Tree Reporting Utility

While the FactoryTalk AssetCentre desktop client and web client offer the user access to individual assets within the asset tree, broader queries can be accomplished using the SQL Server. Use the Asset Tree Reporting Utility to perform reporting on a FactoryTalk AssetCentre asset tree, such as examining the properties of assets of the same type, querying the total number of a certain type of asset. This tool will install a SQL Server view into the AssetCentre database on the system's SQL Server. It automatically configures and creates the SQL Server view, rpt_AssetInformation, in the AssetCentre database. Using the newly installed view, you can query and potentially export the Rockwell device asset contents of the asset tree. This query will exclude non-Rockwell Automation assets or files/folders.

How to find the FactoryTalk AssetCentre Asset Tree Reporting Utility

1. Sign in to Rockwell Automation Knowledgebase, and then search Knowledgebase Document ID: IN24018 - Reporting on a FactoryTalk AssetCentre Asset Tree.
2. In the **Attachments** section, download AssetInformationView.sql.

To perform historical reporting on a FactoryTalk AssetCentre asset tree

1. Put the tool on the SQL Server computer.
2. Double-click **AssetInformationView.sql**.
3. If the SQL Server management tool is not open, when the **Connect to Database Engine** dialog shows, verify the server name and authentication, and then click **Connect**.
4. Click anywhere on the **AssetInformationView.sql** tab, and then click **Query > Execute** or click **Execute** on the toolbar.

5. In the **Object Explorer**, navigate to **Server name > Databases > AssetCentre > Views**, right-click **dbo.rpt_AssetInformation**, and then select **Select Top 1000 Rows**.
6. On the **Results** tab, view the information on the assets.

   You can also right-click anywhere on the **Results** tab, and then select **Save Results as** to save the information in a CSV file.

FactoryTalk AssetCentre Database Version Determination Utility

Use the Database Version Determination Utility to determine the version of the FactoryTalk AssetCentre database. It will return the version of AssetCentre used to create the mounted AssetCentre database. This tool must be run from the Microsoft® SQL Management Studio against the database server hosting the FactoryTalk AssetCentre database.

How to find the FactoryTalk AssetCentre Database Version Determination Utility

1. Sign in to Rockwell Automation Knowledgebase, and then search Knowledgebase Document ID: QA9321 - Utility to determine the database version of a FactoryTalk AssetCentre database.
2. In the **Attachments** section, download AssetCentre_DBVersionScript.sql.

To determine the version of a FactoryTalk AssetCentre database

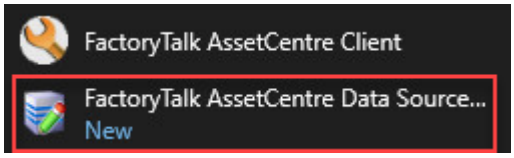
1. Put the tool on the SQL Server computer.
2. Double-click **AssetCentre_DBVersionScript.sql**.
3. If the SQL Server management tool is not open, when the **Connect to Database Engine** dialog shows, verify the server name and authentication, and then click **Connect**.
4. Click anywhere on the **ArchiveActivityLogView.sql** tab, and then click **Query > Execute** or click **Execute** on the toolbar.
5. On the **Results** tab, view the database version.

FactoryTalk AssetCentre Data Source Configuration Wizard

If the AssetCentre database has been moved or restored on a Microsoft SQL Server, it is important to reconnect the FactoryTalk AssetCentre server to this new database. The following steps will walk through the FactoryTalk AssetCentre Data Source Configuration Wizard, installed by default along with the FactoryTalk AssetCentre server.

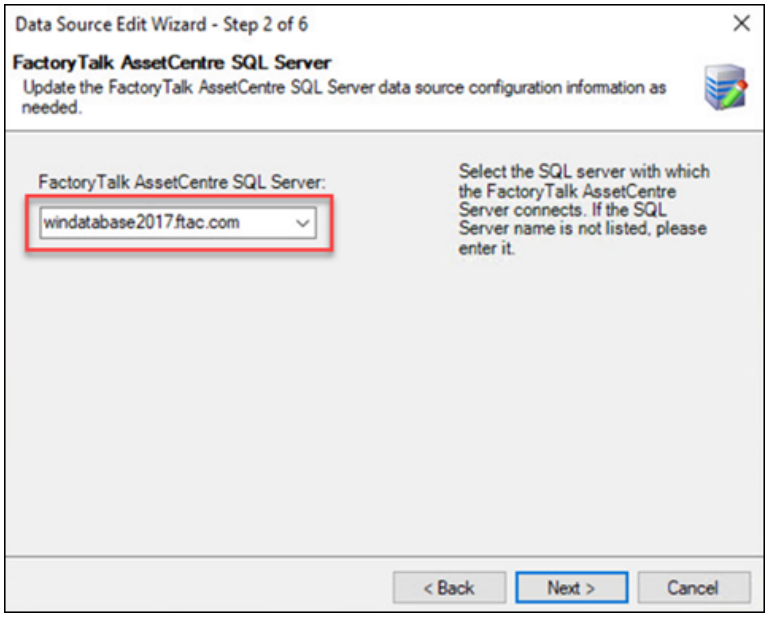
IMPORTANT: The FactoryTalk AssetCentre server and World Wide Web Publishing services should still be stopped at this point, following the restoration of the database. If this is not so, stop them now.

1. From the FactoryTalk AssetCentre server computer, go to the **Start** menu and select **FactoryTalk AssetCentre Data Source Configuration**.



2. Click **Next** on the first screen.

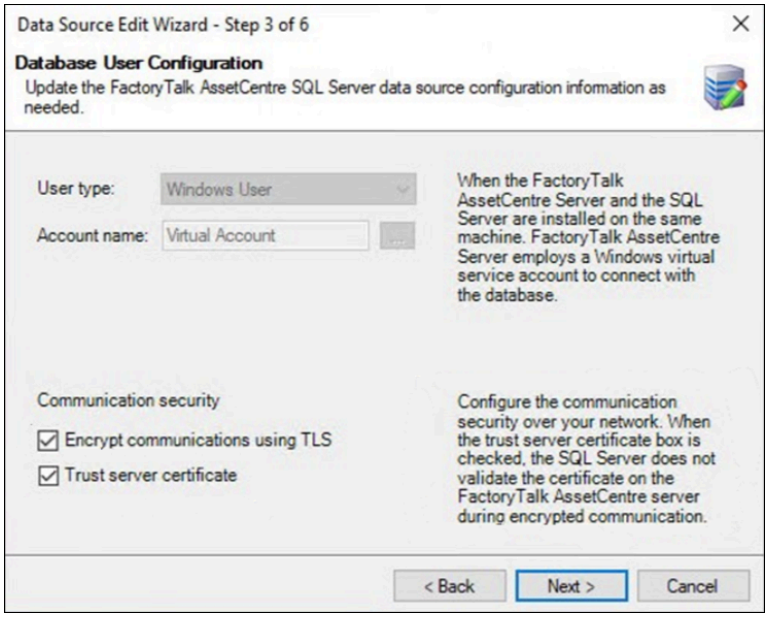
3. Enter the name of the Microsoft SQL Server in the **FactoryTalk AssetCentre SQL Server** dropdown menu, and then click **Next**.



IMPORTANT:

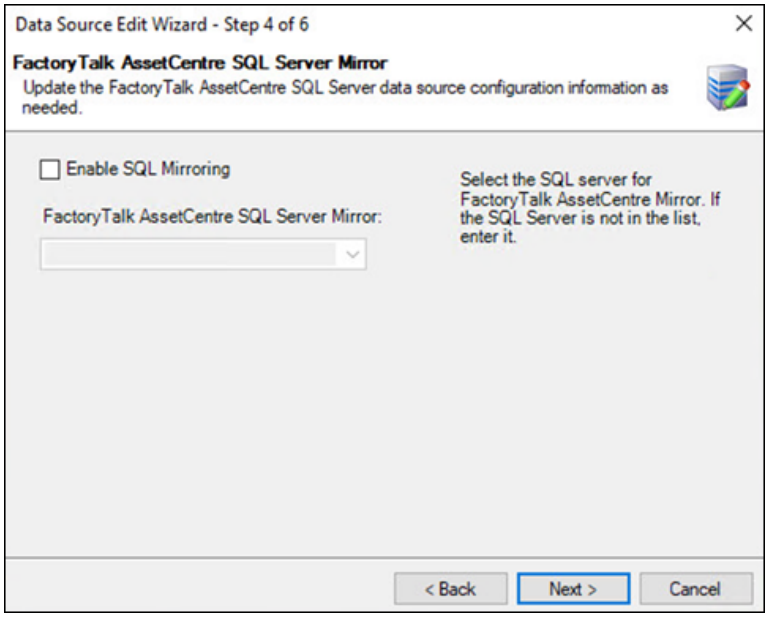
- If you want to turn on the TLS for the database, the fully qualified domain name (FQDN) computer name is required when you specify the FactoryTalk AssetCentre SQL server.
- The default port used for SQL Server communication is 1433. If you want to change the SQL Server port, you must add the port number after the FQDN SQL Server name. For example, *mySQLServer.myDomain.com,1526*. The comma (,) is required. You must ensure that the port is not in use by any other application, service, or process in your system.

4. Configure the **Account name** and communication security options as needed, and then click **Next**.



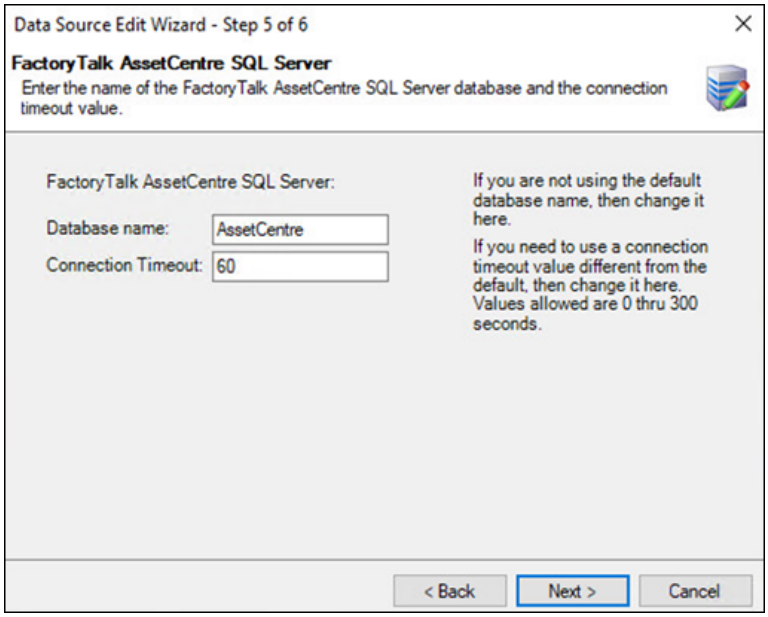
Microsoft SQL Server 2022, and later, support encrypted communication by enabling **Force Encryption** or **Force Strict Encryption**. When enabled, Microsoft SQL Server uses TLS (Transport Layer Security) to encrypt data transmitted between Microsoft SQL Server and clients, like the FactoryTalk AssetCentre server. The **Force Strict Encryption** option is not supported by FactoryTalk AssetCentre. The communications between FactoryTalk AssetCentre and Microsoft SQL Server can be encrypted by selecting the **Encryption communication using TLS** checkbox in this tool or enabling the Microsoft SQL Server **Force Encryption** option.

5. Configure the FactoryTalk AssetCentre SQL Server Mirror properties if applicable, and then click **Next**.



IMPORTANT: If the **Enable SQL Mirroring** checkbox is selected, in the **FactoryTalk AssetCentre SQL Server Mirror** box, you can enter a name of Mirror Database Server or SQL Server Mirror that hosts the mirrored FactoryTalk AssetCentre Database.

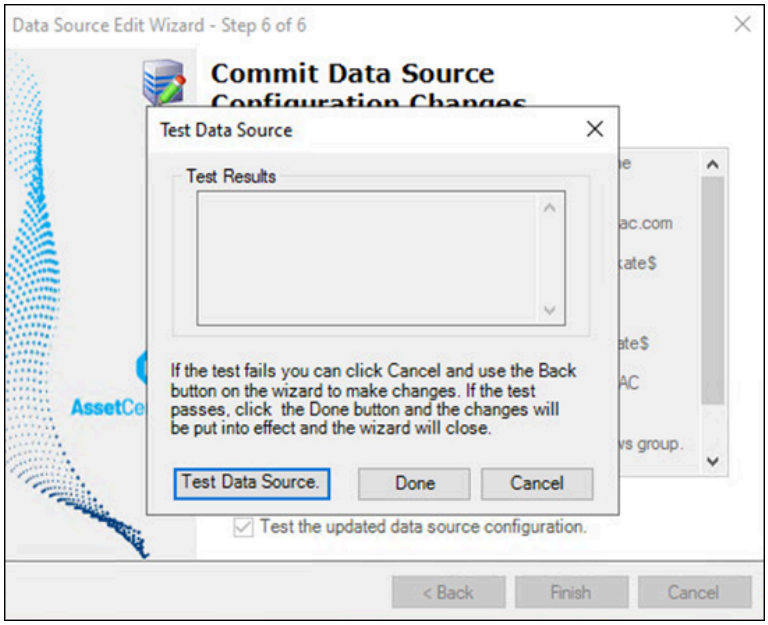
6. Confirm the **Database name** and **Connection Timeout** values in the FactoryTalk AssetCentre SQL Server window, and then click **Next**.



7. Click **Finish**, and a data source test window will appear.

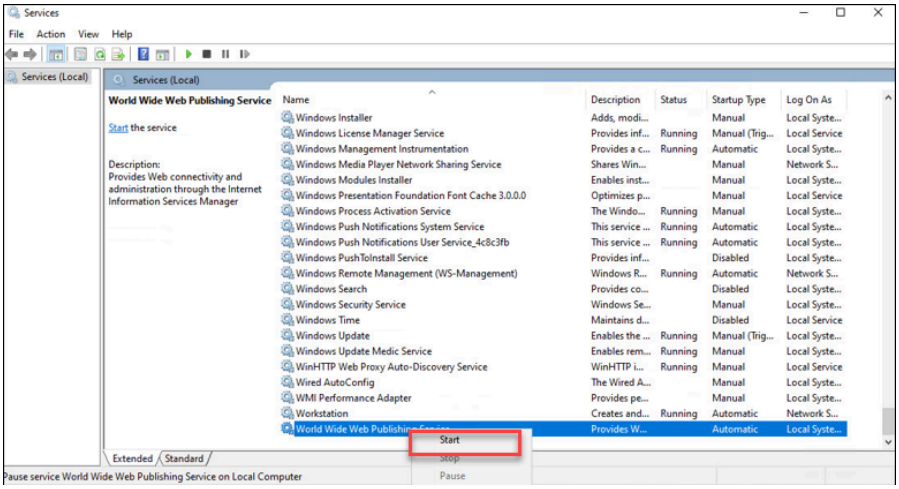
IMPORTANT: If the encryption key in FactoryTalk AssetCentre server does not match the one in the specified database, a dialog appears. Use the **FactoryTalk AssetCentre Database Installer Utility** to recover the encryption key and then apply your desired database changes. For more information, see *If you receive an unmatched key error in FactoryTalk AssetCentre Data Source Configuration Wizard* in the *FactoryTalk AssetCentre Getting Results Guide*.

8. Press **Test Data Source** to test the connection that you've configured and verify that the test completes successfully.



9. Click **Done** to close the wizard.

10. Finally, start the FactoryTalk AssetCentre and World Wide Web Publishing services. From the **Start** menu, open the **Services** program. Start the World Wide Web Publishing service first Right-click on the World Wide Web Publishing listing and select **Start**.



11. Start the FactoryTalk AssetCentre Server service in the same way.

    The FactoryTalk AssetCentre Server is now connected to the newly restored database.

FactoryTalk AssetCentre Log Cleanup Utility

Through the course of normal operation, the Event, Audit, or Diagnostic and Health logs of the FactoryTalk AssetCentre system can grow large. As a direct consequence, the SQL Server database size will also expand. Due to these considerations, as an administrator of the system, you might want to remove older log messages.

Depending on the version of FactoryTalk AssetCentre, the tool you might want to use to delete logs varies.

- Starting from FactoryTalk AssetCentre version 13.00.00, use FactoryTalk AssetCentre web client's built-in tool, Schedule Log Cleanup, to schedule a log cleanup task. This tool can be accessed from **Tools > Database Management > Database Maintenance**.
- For FactoryTalk AssetCentre version 6.10.00 or later, use a standalone RA.FTAC.LogCleanUp.exe. This tool might be run manually or scheduled to run as a Windows task. It also allows you to run it without starting the FactoryTalk AssetCentre desktop client.
- Starting from FactoryTalk AssetCentre version 2.31, use the FactoryTalk AssetCentre desktop client's built-in tool, Log Cleanup Wizard, which can be accessed from the **Tools** menu.

To view the deleted data by Log Cleanup Wizard, use the Exported Log Viewer, which can be accessed from the **Start** menu for CPR9 SR2 (v2.31.01) and later.

Standalone Log Cleanup Utility (RA.FTAC.LogCleanUp.exe)

Use this tool to delete logs for FactoryTalk AssetCentre versions 6.10.00 and later.

Before scheduling this tool to execute periodically using the Windows Scheduler, you must first configure the tool's options for running it.

IMPORTANT: Command-line parameters are case-insensitive. However, if a specified value includes a space, enclose the value in quotation marks (for example, "value with spaces").

How to find the Log Cleanup Utility (RA.FTAC.LogCleanUp.exe)

- The RA.FTAC.LogCleanUp.exe is in C:\Program Files (x86)\Rockwell Software\AssetCentre Client.

To configure the Log Cleanup Utility (RA.FTAC.LogCleanUp.exe) and clean up the logs

1. Back up the FactoryTalk AssetCentre database using the appropriate SQL Server management tool, such as SQL Server Management Studio.
2. Open the **Command Prompt** window as administrator.
3. Specify the full path of the tool and the **/C** command.

   For example, `"C:\Program Files (x86)\Rockwell Software\AssetCentre Client"\RA.FTAC.LogCleanUp.exe /C`
4. Press **Enter**.

   - If single sign-on is enabled, it will sign in to FactoryTalk automatically.
   - If single sign-on is disabled, enter the username and password to sign in to FactoryTalk. Additionally, scheduled operations using the Windows Task Scheduler will no longer work under this configuration. Starting from FactoryTalk AssetCentre version 13.00.00, you can use FactoryTalk AssetCentre web client's built-in tool, Schedule Log Cleanup, to schedule a log cleanup task. This tool can be accessed from **Tools > Database Management > Database Maintenance**.
5. In the **Log Cleanup Setting** section, select one or multiple logs that you want to delete.
   - Event Log
   - Audit Log
   - Diagnostics Log
6. In the **Export and Deletion Criteria** section, do the following:
   a. Enter the number of days worth of date to keep.
   b. Decide whether you want to save the data to be deleted by selecting **Export data to file** or **Delete data without saving**.
   c. In the **File Save Information** section, click **Select Path** to define a folder where the operation results file and deleted data will be saved.
7. Click **OK**.

   A configuration file, RA.FTAC.LogCleanUp.exe.Config is saved in the same folder as RA.FTAC.LogCleanUp.exe.
8. In the **Command Prompt** window, specify the full path of the tool.

   For example, `"C:\Program Files (x86)\Rockwell Software\AssetCentre Client\RA.FTAC.LogCleanUp.exe"`
9. Press **Enter**.

The deletion process shows in the **Command Prompt** window.

After the operation completes, the results are saved as TXT files in the specified folder. If the deleted data is specified to be saved, the logs will be saved as MDF files in the folder.

FactoryTalk AssetCentre Archive Cleanup Utility

As you use FactoryTalk AssetCentre Archive, you will accumulate versions of files that are no longer useful. Accumulated files can hamper the performance of the Archive. You can use the standalone Archive Cleanup Utility to remove unnecessary files from the database. For the same purpose, you can also use the Archive Cleanup Wizard that can be accessed from the **Tools** menu in FactoryTalk AssetCentre desktop client. The standalone tool allows you to clean up the database without starting the FactoryTalk AssetCentre desktop client. Once configured, this tool might be run manually or scheduled to run as a Windows task.

Starting from FactoryTalk AssetCentre version 15.00.00, you can use FactoryTalk AssetCentre web client's built-in tool, Schedule Archive Cleanup, to schedule an archive cleanup task. The tool can be accessed from **Tools > Database Management > Database Maintenance**.

Once files are removed from the database, they cannot be restored.

How to find the Archive Cleanup Utility (RA.FTAC.ArchiveCleanUp.exe)

- The RA.FTAC.ArchiveCleanUp.exe is in C:\Program Files (x86)\Rockwell Software \AssetCentre Client or C:\Program Files (x86)\Rockwell Software\AssetCentre Agents \AgentController.

To remove archived files

1. Create an XML configuration file of the cleanup settings on page 13
2. Start cleaning up archived files on page 15

Create an XML configuration file of the cleanup settings

An XML configuration file is necessary to run this tool. It contains criteria for removing the database files. You can get this XML file by creating it with the FactoryTalk AssetCentre desktop client or editing an existing one.

To create an XML configuration file with FactoryTalk AssetCentre desktop client

1. Select **Tools > Archive Cleanup Wizard**.
2. On the **Welcome** page, click **Next**.
3. Follow the on-screen instructions until you get to the **Confirmation** page.
4. On the **Confirmation** page, click **Save Configuration** to save the deletion configuration in an XML file.

For details about using the Archive Cleanup Wizard, see Delete archived files in the *FactoryTalk AssetCentre Desktop Client Help*.

Parameters in the XML configuration file

The XML configuration file contains two types of deletion criteria:

- By date
- By version

Deletion by date

In this scenario, you might edit the following deletion criteria:

- **START_DATE**

  Specify the date and time, after and including when the database files will be deleted. For example, *2012-03-01T00:00:00* indicates that the database files that were archived starting from 00:00 local time on March 1, 2012 through the ending time will be deleted.

- **END_DATE**

  Specify the date and time before and including when the database files will be deleted. For example, *2012-05-01T00:00:00+08:00* indicates that the database files that were archived from the starting time through 8:00 local time on May 1, 2012 will be deleted.

  If you specify **NOW** for this parameter, where NOW indicates the current day, it means that files that were archived from the specified starting time through today will be deleted.

  If you specify **NOW - number** for this parameter, where the *number* is a positive integer, it means that files that were archived from the specified starting time through the date, which is a *number* of days before the current day will be deleted. For example, *NOW - 30* indicates that the database files older than 30 days will be deleted.

  If the END_DATE parameter is empty, NOW, or the current day will be automatically used for this parameter.

- **KEEP_MIN_VER**

  Specify the amount of the latest versions to keep in addition to the first and last versions.

- **RECURSE**

  Specify whether the deletion criteria are applied to all container assets. *True* indicates that the deletion criteria will be applied to containers and assets included in them, while *False* indicates they will not.

Deletion by version

In this scenario, you might edit the following deletion criteria:

- **DELETE LABELS**

  Specify whether the labeled versions will be deleted. *True* indicates that the labeled versions will be deleted, while *False* indicates that they will be retained.

- **START_VERSION**

  Specify a version including and starting from which the files will be deleted.

- **END_VERSION**

  Specify a version including and before which the files will be deleted.

Start cleaning up archived files

After you have created the XML configuration file of the cleanup settings, run the tool to remove unnecessary files. This operation will run silently, without a user interface. The first or last version of the database files will be retained.

To run the tool, you must enter the Design mode. If no user in the system is in the Design mode, you will enter the Design mode when starting up the cleaning and exit once the operation completes. If any user in the system has locked the Design mode, that user needs to exit the Design mode to let you run.

Prerequisites

- Check in all files and have users sign out FactoryTalk AssetCentre.
- Gain the **Run Archive Database Cleanup Wizard** permission.

IMPORTANT: Command-line parameters are case-insensitive. However, if a specified value includes a space, enclose the value in quotation marks (for example, "value with spaces").

To remove archived files

1. Back up the FactoryTalk AssetCentre database using the appropriate SQL Server management tool, such as SQL Server Management Studio.
2. Open the **Command Prompt** window as administrator.
3. Specify the full path of the tool and the XML configuration file.

   For example, `"C:\Program Files (x86)\Rockwell Software\AssetCentre Client\RA.FTAC.ArchiveCleanUp.exe" "C:\Program Files (x86)\Rockwell Software\AssetCentre Client\CleanUpConfig.xml"`
4. Press **Enter**. The cleanup operation runs silently.

- If single sign-on is enabled, it will sign in to FactoryTalk automatically.
- If single sign-on is disabled, enter the username and password to sign in to FactoryTalk. Additionally, scheduled operations using the Windows Task Scheduler will no longer work under this configuration. Starting from FactoryTalk AssetCentre version 15.00.00, you can use FactoryTalk AssetCentre web client's built-in tool, Schedule Archive Cleanup, to schedule an archive cleanup task. The tool can be accessed from **Tools > Database Management > Database Maintenance**.

After the cleanup operation completes, a log file is created in C:\Users*UserName*\Documents, which summarizes the operation result. The file naming convention is of the form: Archive Cleanup Year-Month-Day Hour-Minute-Second.

FactoryTalk AssetCentre Archive Extractor Utility

Use FactoryTalk® AssetCentre Archive Extractor to perform a Get operation on the latest or pinned version of each file within the FactoryTalk AssetCentre Archive, and place the files in a

designated location. This tool provides an emergency backup solution that will allow you to gain access to files if a FactoryTalk AssetCentre server fails. Once configured, this tool might be run manually or scheduled to run as a Windows task.

IMPORTANT: The version of this tool must match the version of the FactoryTalk AssetCentre system. For example, the FactoryTalk AssetCentre Archive Extractor version 15.00.00 should not be used with FactoryTalk AssetCentre version 16.00.00. Starting from FactoryTalk AssetCentre version 16.00.00, FactoryTalk AssetCentre Archive Extractor can be installed directly on your computer instead of being run from the installation package.

How to install the FactoryTalk AssetCentre Archive Extractor Utility

1. In the FactoryTalk AssetCentre installation package, navigate to 16.00.00-FTAssetCentre \Tools\FTAC Utility\FTAC ArchiveExtractor.
2. Double-click **setup.exe**.
3. Follow the on-screen instructions to complete the installation.

Configure and run the FactoryTalk AssetCentre Archive Extractor

Create a configuration file that includes all required settings for extraction. You can use the **/C** command with the full path to the EXE file to open the tool, and then further configure its settings. Once configuration is completed, a configuration file will be created in the AssetCentre Archive Extractor folder and you can start running the tool.

IMPORTANT: Command-line parameters are case-insensitive. However, if a specified value includes a space, enclose the value in quotation marks (for example, "value with spaces").

To configure the FactoryTalk AssetCentre Archive Extractor

1. Open the **Command Prompt** window as administrator.
2. Enter the full path of the tool and the **/C** command. This command opens the tool and allows you to further configure its settings.

   For example, `"C:\Program Files (x86)\Rockwell Software\AssetCentre Tools\AssetCentre Archive Extractor"\RA.FTAC.ArchiveExtractor.exe /C`
3. Press **Enter**.
4. In the **Destination Path** box, enter a local or network path to save the retrieved archive files, or click the browse button to specify the path.
5. Specify user credentials to use.
   - To use the credentials of the currently logged-on user, select the **Integrated Security** checkbox.
   - To specify credentials of a user, who is allowed to write to the output location:

IMPORTANT: For the initial setup, use Windows Credential Manager to add user credentials, which is required only once each user account. Once configured, you can update or change your user credentials within this tool. The user credentials in Windows Credential Manager are user-specific and cannot be carried over between different user accounts.

The scheduled operations via Windows Task Scheduler cannot work until you create your user credentials correctly in Windows Credential Manager.

a. Clear the **Integrated security** checkbox.

b. From the **Start** menu, find **Credential Manager**.

   i. Select **Windows Credentials**.

   ii. Select **Add a generic credential**.

   iii. In the **Internet or network address** box, enter RA.FTAC.ArchiveExtractor.Windows.

   iv. In the **User name** box, enter the sign in ID.

   v. In the **Password** box, enter the password.

   vi. Select **OK**.

c. Click **Test connection** to verify whether the username and password are authenticated to write to the output location.

6. In the **SQL Server Name** box, enter the name or IP address of the computer running the SQL Server. The default name is *(local)*.
7. In the **Database Name** box, enter the FactoryTalk AssetCentre database name in the SQL Server. The default name is *AssetCentre*.
8. In the **Connection Timeout** box, specify the maximum time duration for which a test connection operation is completed. The default value is 15 seconds.
9. Specify the SQL Server authentication.

   - To use the credentials of the currently logged-on user, select the **Integrated Security** checkbox.
   - To specify administrator credentials of a database server:

IMPORTANT: For the initial setup, use Windows Credential Manager to add user credentials, which is required only once each user account. Once configured, you can update or change your user credentials within this tool. The user credentials in Windows Credential Manager are user-specific and cannot be carried over between different user accounts.

The scheduled operations via Windows Task Scheduler cannot work until you create your user credentials correctly in Windows Credential Manager.

a. Clear the **Integrated security** checkbox.

b. From the **Start** menu, find **Credential Manager**.

   i. Select **Windows Credentials**.

   ii. Select **Add a generic credential**.

   iii. In the **Internet or network address** box, enter RA.FTAC.ArchiveExtractor.SQLServer.

iv. In the **User name** box, enter the username for the database server administrator.

v. In the **Password** box, enter the password for the database server administrator.

vi. Select **OK**.

10. In the **Version Type** section:

- To retrieve the pinned version of each file in the FactoryTalk AssetCentre Archive, select **Pinned**. If a pinned version does not exist for any file, the latest version will be retrieved instead.
- To retrieve the latest version of each file in the FactoryTalk AssetCentre Archive, disregarding whether an earlier pinned version exists, select **Tip (or latest)**.

11. Click **OK**. A CONFIG file is created in the as folder as RA.FTAC.ArchiveExtractor.exe.

To run the FactoryTalk AssetCentre Archive Extractor

1. In the **AssetCentre Archive Extractor** folder, double-click **RA.FTAC.ArchiveExtractor.exe**.

   When the tool starts, operation information is displayed in the **Command Prompt** window. This window will automatically close when the tool completes, but if it encounters any errors, they will be displayed here. Completions and errors are all logged to the Application log section of the Windows Event Logs.

Information in the Archive Extractor CONFIG file

While running this tool, a CONFIG file is created, which provides all the settings for the extraction.

The following is an example of the CONFIG file.

```
<?xml version="1.0" encoding="utf-8"?>
<configuration>
<appSettings>
    <add key="DestinationPath" value="C:\Users\bizware\Desktop\ArchiveExtractor\Log" />
    <add key="SqlServerConnectionTimeout" value="15" />
    <add key="SqlServerDatabaseName" value="AssetCentre" />
    <add key="SqlServerIntegratedSecurity" value="True" />
    <add key="SqlServerName" value="(local)" />
    <add key="VersionType" value="Pinned" />
    <add key="WindowsIntegratedSecurity" value="True" />
</appSettings>
</configuration>
```

This example includes the following settings:

- DestinationPath

  The output location, where the retrieved archive files are saved.

- SqlServerConnectionTimeout

  A maximum time duration for which a test connection operation is completed.

- SqlServerDatabaseName

  The FactoryTalk AssetCentre database name in the SQL Server.

- SqlServerIntegratedSecurity

The authentication mode for logging on to the database server. This example uses the integrated security, using the credentials of the currently logged-on user.

- SqlServerName

  The name or IP address of the computer running the SQL Server that hosts the FactoryTalk AssetCentre database. In this example, the Archive Extractor is run on the same computer that is running the SQL Server. Thus, the value is specified as *(local)*.

- VersionType

  The specification of whether the latest version or pinned version will be retrieved. This example specifies the pinned version.

- WindowsIntegratedSecurity

  The authentication method for verifying the user credentials for the output location. This example uses the integrated security, using the credentials of the currently logged-on user.

FactoryTalk AssetCentre Event Log Attachment Extractor Utility

Use the FactoryTalk® AssetCentre Event Log Attachment Extractor to extract log file attachments when the FactoryTalk AssetCentre server experiences downtime or loses connection to the SQL Server® . This tool extracts log file attachments of the last run backup and compare task, which is supported on the user interface or through commands.

IMPORTANT: The version of this tool must match the version of the FactoryTalk AssetCentre system. For example, the FactoryTalk AssetCentre Event Log Attachment Extractor version 15.00.00 should not be used with FactoryTalk AssetCentre version 16.00.00. Starting from FactoryTalk AssetCentre version 16.00.00, FactoryTalk AssetCentre Event Log Attachment Extractor can be installed directly on your computer instead of being run from the installation package.

How to install the FactoryTalk AssetCentre Event Log Attachment Extractor Utility

1. In the FactoryTalk AssetCentre installation package, navigate to 16.00.00-FTAssetCentre \Tools\FTAC Utility\FTAC EventLogAttachmentExtractor.
2. Double-click **setup.exe**.
3. Follow the on-screen instructions to complete the installation.

Extract event log attachments

Use the Event Log Attachment Extractor to extract the event log attachments.

To extract event log attachments

1. After the installation, select **Start > Rockwell Software > FactoryTalk AssetCentre Event Log Attachment Extractor**.
2. In the **Output location** box, enter a local or network path to save the event log attachments, or click the browse button to specify the path.

3. Specify user credentials to use.
   - To use credentials of the currently logged-on user, select the **Integrated security** checkbox.
   - To specify credentials of a user, who is allowed to write to the output location:

     IMPORTANT: For the initial setup, use Windows Credential Manager to add user credentials, which is required only once each user account. Once configured, you can update or change your user credentials within this tool. The user credentials in Windows Credential Manager are user-specific and cannot be carried over between different user accounts.

     The scheduled operations via Windows Task Scheduler cannot work until you create your user credentials correctly in Windows Credential Manager.

     a. Clear the **Integrated security** checkbox.
     b. From the **Start** menu, find **Credential Manager**.
        i. Select **Windows Credentials**.
        ii. Select **Add a generic credential**.
        iii. In the **Internet or network address** box, enter RA.FTAC.EventLogAttachmentExtractor.Windows.
        iv. In the **User name** box, enter the sign-in ID.
        v. In the **Password** box, enter the password.
        vi. Select **OK**.
     c. Click **Test connection** to verify whether the user name and password are authenticated to write to the output location.
4. In the **SQL Server name** box, enter the name or IP address of the computer running the SQL Server.
5. In the **Database name** box, enter the FactoryTalk AssetCentre database name in the SQL Server. The default database name is *AssetCentre*.
6. From the **Authentication** list, specify which authentication to use.
   - To use credentials of the currently logged-on user, select **Use Windows Authentication**.
   - To specify administrator credentials of a database server:

     IMPORTANT: For the initial setup, use Windows Credential Manager to add user credentials, which is required only once each user account. Once configured, you can update or change your user credentials within this tool. The user credentials in Windows Credential Manager are user-specific and cannot be carried over between different user accounts.

     The scheduled operations via Windows Task Scheduler cannot work until you create your user credentials correctly in Windows Credential Manager.

     a. Select **Use SQL Server Authentication**.
     b. From the **Start** menu, find **Credential Manager**.
        i. Select **Windows Credentials**.
        ii. Select **Add a generic credential**.

iii. In the **Internet or network address** box, enter RA.FTAC.EventLogAttachmentExtractor.SQLServer.

iv. In the **User name** box, enter the username for the database server administrator.

v. In the **Password** box, enter the password for the database server administrator.

vi. Select **OK**.

7. In the **Connection timeout** box, specify the maximum time duration for which a test connection operation is completed. The value must be an integer from 0 through 600. The default value is 15 seconds.
8. Click **Start**. A progress bar shows at the bottom of the dialog.
9. When the operation is completed, the event log attachments and the operation report file are saved at the specified output location.
10. Click **Close** to exit.

Event log attachment extraction using commands

The FactoryTalk AssetCentre Event Log Attachment Extraction supports execution using commands.

To extract event log attachment using commands

1. Create a CONFIG file of the extraction settings using a command on page 21
2. Use a command to start the extraction on page 23

The FactoryTalk AssetCentre Event Log Attachment Extraction supports execution using commands.

To extract event log attachment using commands

After configuring the settings for the extraction, a CONFIG file is created in the **AssetCentre Event Log Attachment Extractor** folder. The FactoryTalk AssetCentre Event Log Attachment Extractor uses this file for each extraction operation with a command. To change the settings, create a new CONFIG file.

Create a CONFIG file of the extraction settings using a command

Before extracting event log attachments with a command, create a configuration file that includes all the settings for the operation.

Command-line parameters are case-insensitive. However, if a specified value includes a space, be sure to enclose the value in quotation marks (for example, "value with spaces").

To create a CONFIG file

1. Open the Windows **Command Prompt** window.
2. Enter the full path of **RA.FTAC.EventLogAttachmentExtractor.exe** and the **/C** command. This command opens the tool and allows you to further configure its settings.

For example, `"C:\Program Files (x86)\Rockwell Software \AssetCentre Tools\AssetCentre Event Log Attachment Extractor"\RA.FTAC.EventLogAttachmentExtractor.exe /C`

3. Press **Enter**.
4. In the **FTAC Event Log Attachment Extractor** dialog, configure all the settings.
5. Click **OK**.

   The **RA.FTAC.EventLogAttachmentExtractor.exe.config** file is saved at the **AssetCentre Event Log Attachment Extractor** folder.

Information in the Event Log Attachment Extractor CONFIG file

The command-mode extraction uses an **RA.FTAC.EventLogAttachmentExtractor.exe.config** file as the configuration file. The CONFIG file provides all the settings for the command-mode extraction.

The following is an example of the CONFIG file.

```
<?xml version="1.0" encoding="utf-8"?>
<configuration>
    <appSettings>
        <add key="DestinationPath" value="C:\Users\bizware\Desktop" />
        <add key="SqlServerConnectionTimeout" value="15" />
        <add key="SqlServerDatabaseName" value="AssetCentre" />
        <add key="SqlServerIntegratedSecurity" value="True" />
        <add key="SqlServerName" value="(local)" />
        <add key="WindowsIntegratedSecurity" value="True" />
    </appSettings>
</configuration>
```

This example includes the following settings:

- DestinationPath

  The output location, where the event log attachments and the operation report file are saved.

- SqlServerConnectionTimeout

  A maximum time duration for which a test connection operation is completed.

- SqlServerDatabaseName

  The FactoryTalk AssetCentre database name in the SQL Server.

- SqlServerIntegratedSecurity

  The authentication mode for logging on to the database server. This example uses the Use Windows Authentication mode, using the credentials of the currently logged-on user.

- SqlServerName

  The name or IP address of the computer running the SQL Server that hosts the FactoryTalk AssetCentre database. In this example, the Event Log Attachment Extractor is run on the same computer that is running the SQL Server. Thus, the value is specified as *(local)*.

- WindowsIntegratedSecurity

  The authentication method for verifying the user credentials for the output location. This example uses the integrated security, using the credentials of the currently logged-on user.

Use a command to start the extraction

Use FactoryTalk AssetCentre Event Log Attachment Extractor to extract event log attachments with a command without interacting with the software interface.

IMPORTANT: Command-line parameters are case-insensitive. However, if a specified value includes a space, be sure to enclose the value in quotation marks (for example, "value with spaces").

Prerequisites

- Create a CONFIG file of the extraction settings using a command on page 21

To extract event log attachments with a command

1. Open the Windows **Command Prompt** window.
2. Enter the full path of **RA.FTAC.EventLogAttachmentExtractor.exe** and the **/S** command. This command will start the extraction.

   For example, `"C:\Program Files (x86)\Rockwell Software\AssetCentre Tools\AssetCentre Event Log Attachment Extractor"\RA.FTAC.EventLogAttachmentExtractor.exe /S`
3. Press **Enter**.

   The event log attachments and the operation report file are saved at the specified output location.

FactoryTalk AssetCentre Import Export Utility

The FactoryTalk® AssetCentre Import Export Utility allows you to create a mass of new assets, import assets with customized properties, and edit or duplicate assets of an asset node.

IMPORTANT:

- This tool does not support exporting a CSV file from one FactoryTalk AssetCentre system and importing it into another FactoryTalk AssetCentre system.
- This tool does not support operations for Siemens® S7 Controller (TIA Portal™), Mitsubishi® Controller (GX Works2™), Mitsubishi Controller (GX Works3™), and Schneider® Controller (Control Expert) asset types.
- The version of this tool must match the version of the FactoryTalk AssetCentre system. For example, the FactoryTalk AssetCentre Import Export Utility version 15.00.00 should not be used with FactoryTalk AssetCentre version 16.00.00. Starting from FactoryTalk AssetCentre version 16.00.00, you can install this tool by selecting the **AssetCentre Import Export Utility** option during the FactoryTalk AssetCentre Desktop Client or FactoryTalk AssetCentre Custom installation. This option is selected by default. For more information, see Install the FactoryTalk AssetCentre Desktop Client software in the *FactoryTalk AssetCentre Installation Guide*.

This tool provides the following four options:

- **New mass creation**

  Creates a group of new assets of different types in the asset tree all at once.

- **New import**

  Imports a batch of assets with user-defined asset properties.

- **Edit assets of an asset node**

  Edits properties of assets under a certain asset node.

- **Duplicate assets of an asset node**

  Duplicates an existing node of assets in the asset tree.

To create, import, edit, or duplicate assets, make sure that no other user in the system is in Design mode in FactoryTalk AssetCentre desktop client. This allows the tool to update the asset tree as designed.

Configure security for the FactoryTalk AssetCentre Import Export Utility

By default, the Administrators and All Users groups in FactoryTalk Directory with the right to switch to Design mode can perform operations in the FactoryTalk AssetCentre Import Export Utility. To deny specific users the right to perform operations, edit the **Switch to Design mode** policy setting in the FactoryTalk Administration Console.

To configure security for the FactoryTalk AssetCentre Import Export Utility

1. Select **Start > Rockwell Software > FactoryTalk Administration Console**.
2. In the **Explorer** pane, navigate to **System > Policies > Product Policies > FactoryTalk AssetCentre**.
3. Double-click **Feature Security**.
4. Click the **Switch to Design mode** policy setting, and then click next to the words *Configure Security*.
5. In the **Configure Securable Action** dialog, select the user or group for whom you want to assign the permission. (If the user or group does not appear in the list, click **Add**, click **Show all**, select the user or group, and then click **OK**.)
6. Click the box to allow or deny the user permission to the selected **Switch to Design mode** feature.
7. Click **OK**.

Create a group of new assets

Create a large amount of new assets of different asset types in the asset tree.

Prerequisites

- Make sure no other user in the system is in Design mode before creating assets.
- Make sure the amount of assets to be added does not exceed the purchased capacity of devices. Once you reach the capacity, you need to reduce the amount of assets or purchase capacity activation for more devices to proceed.

To create a group of new assets

1. In the **Welcome** dialog, click **Next**.
2. In the **Select an option** dialog, select **New mass creation**, and then click **Next**.
3. In the **Create new mass assets** dialog, specify the following information:
   - **Asset Type**: Select an asset type from the list. The available asset types are Generic Container and all the device items except for ABB Robot, FANUC Robot. You can create up to 10 asset types each time.

     - Starting from FactoryTalk AssetCentre version 10.00, process device capabilities are not supported.
     - This tool does not support operations for Siemens® S7 Controller (TIA Portal™), Mitsubishi® Controller (GX Works2™), Mitsubishi Controller (GX Works3™), and Schneider® Controller (Control Expert) asset types.

   - **Default Name**: Specify the name of the asset as it appears in the asset tree. Special characters \ / : * ? < > are not supported. When adding multiple assets of one type or adding an asset under a node that has an asset of the same name and type, a number (like _2) is appended to the asset name to ensure uniqueness.
   - **Quantity**: Enter the quantity for each asset type to add to the asset tree. The available quantity is 1-1000.
4. In the asset view of the **Create new mass assets** dialog, select a node in the asset tree under which the assets will be created. The node can be a generic container or the root node.

   - Click the **Refresh** button to update the asset tree if any recent changes have been made.
   - If a device asset is selected, the assets will be added to its parent container. If the device asset doesn't belong to any container, the assets will be added to the root, which is the topmost node in the asset tree.
5. Click **Start**.

   If extended properties are configured by the **Options dialog box: Extended Properties**, the new assets will inherit the default extended properties.
6. When device items (except for Asset Inventory) are selected, a message box opens, notifying the status of licensed asset capacity.

   - If the amount of assets to add doesn't exceed the purchased capacity, click **Yes** to proceed.

   - If the amount of assets to add exceeds the purchased capacity, you need to reduce the amount of assets or increase licensed capacity.

   A progress bar shows as the tool adds the new assets.

Click **Cancel** if you want to cancel the current operation. Clicking **Cancel** does not delete assets that have already been added to the asset tree. You need to delete them manually.

7. (optional) In the **Finished** dialog, click **Save Summary** to save the result summary as a TXT file.
8. Click **Finish** to exit the or **Back** to return to the **Select an option** dialog.

Import a batch of assets with user-defined properties

Import a large amount of assets with user-defined properties in the asset tree. To do so, you need to complete the following operations:

- Create a CSV file with assets and editable properties as an import file.
- Edit asset properties in the CSV file.
- Import the CSV file with customized properties.

Prerequisites

- Make sure no other user in the system is in Design mode before importing the CSV file.
- Make sure the amount of assets to be added does not exceed the purchased capacity of devices. Once you reach the capacity, you need to reduce the amount of assets or purchase capacity activation for more devices to proceed.

To import a batch of assets with user-defined properties

1. In the **Welcome** dialog, click **Next**.
2. In the **Select an option** dialog, select **New import**, and then click **Next**.
3. Create a CSV file with assets and editable properties as an import file.
   a. In the **Select an option for new import** dialog, select **Create import file**, and then click **Next**.

      If you have already created a CSV import file, go to Step 5.

   b. In the **Create new mass assets for import** dialog, specify the following information:

      - **Asset Type**: Select an asset type from the list. The available asset types are Generic Container, all the device items except for ABB Robot, FANUC Robot, and Asset Inventory. You can create up to 10 asset types each time.

        - Starting from FactoryTalk AssetCentre version 10.00, process device capabilities are not supported.
        - This tool does not support operations for Siemens® S7 Controller (TIA Portal™), Mitsubishi® Controller (GX Works2™), Mitsubishi Controller (GX Works3™), and Schneider® Controller (Control Expert) asset types.

      - **Quantity**: Enter the quantity for each asset type to create. The available quantity is 1-1000.

   c. Click **Next**.

d. When device items (except for Asset Inventory) are selected, a message box opens, notifying the status of licensed asset capacity.

- If the amount of assets to add doesn't exceed the purchased capacity, click **Yes** to proceed.

- If the amount of assets to add exceeds the purchased capacity, you need to reduce the amount of assets or increase licensed capacity.

e. Specify the file name and file path to save the CSV file, and then click **Start**.

If extended properties are configured by the **Options dialog box: Extended Properties**, the assets in the CSV file will inherit the default extended properties.

f. (optional) In the **Finished** dialog, click **Save Summary** to save the result summary as a TXT file.

g. To continue the importing process, click **Back** to return to the **Select an option** dialog. If you want to exit, click **Finish**.

4. Edit asset properties in the CSV file.

a. Locate and open the CSV file on your computer, and edit the asset properties, except for **Type**. If the CSV file includes multiple assets of the same type and name or an asset that has the same type and name as the one under a node where it will be added, a number (like _2) is appended to the asset name to ensure uniqueness.

IMPORTANT:

- Do not modify information in the **Type** column or remove any columns. Assets with the **Type** property modified cannot be added to the asset tree after the CSV file is imported. A CSV file with any column removed cannot be imported.
- To import an extended property, don't just enter the property value while leaving the property name empty in the CSV file. Such extended properties will be skipped during the import and they won't inherit the default extended properties as configured by the **Options dialog box: Extended Properties**. Only extended properties with both name and value empty in the CSV file can inherit the default extended properties after the import.

b. Save and close the file.

5. Import the CSV file with customized properties.

a. Return to the **Select an option** dialog, select **New import**, and then click **Next**.

b. In the **Select an option for new import** dialog, select **Import**, and then click **Next**.

c. In the **File to Import** field of the **Import new mass assets** dialog, click **Browse** to select the CSV import file you have created and edited.

d. In the asset view of the **Import new mass assets** dialog, select a node in the asset tree under which the assets will be created. The node can be a generic container or the root node.

If a device asset is selected, the assets will be added to its parent container. If the device asset doesn't belong to any container, the assets will be added to the root, which is the topmost node in the asset tree.

e. Click **Start**.

f. When device items (except for Asset Inventory) are selected, a message box opens, notifying the status of licensed asset capacity.

- If the amount of assets to add doesn't exceed the purchased capacity, click **Yes** to proceed.

- If the amount of assets to add exceeds the purchased capacity, you need to reduce the amount of assets or increase licensed capacity.

A progress bar shows as the tool adds the new assets.

Click **Cancel** if you want to cancel the current operation. Clicking **Cancel** does not delete assets that have already been added to the asset tree. You need to delete them manually.

g. (optional) In the **Finished** dialog, click **Save Summary** to save the result summary as a TXT file.

6. Click **Finish** to exit or **Back** to return to the **Select an option** dialog.

   If the process completes without being ended, the CSV file is added under the same node where the new assets are created.

Edit assets of an asset node

Edit properties of assets under an asset node in the asset tree. To do so, you need to complete the following operations:

- Create a CSV file with assets and editable properties as an import file.
- Edit asset properties in the CSV file.
- Import the CSV file with customized properties.

Prerequisites

- Make sure no other user in the system is in Design mode before importing the CSV file.

To edit assets of an asset node

1. In the **Welcome** dialog, click **Next**.
2. In the **Select an option** dialog, select **Edit assets of an asset node**, and then click **Next**.
3. Create a CSV file with assets and editable properties as an import file.
   a. In the **Select an option for asset edit** dialog, select **Create import file**, and then click **Next**.

If you have already created a CSV import file, go to Step 5.

   b. In the asset view of the **Export assets to edit** dialog, select a node in the asset tree under which the assets you want to edit.

If a device asset is selected, its parent container becomes the node. All assets under this node will be exported to the CSV file. If the device asset doesn't belong to any container, the root of asset tree becomes the node. All assets in the asset tree will be exported to the CSV file.

   c. In the **File Saving Information** field, specify the file name and file path to save the CSV file, and then click **Start**.

d. (optional) In the **Finished** dialog, click **Save Summary** to save the result summary as a TXT file.

e. To continue the importing process, click **Back** to return to the **Select an option** dialog. If you want to exit, click **Finish**.

4. Edit asset properties in the CSV file.

a. Locate and open the CSV file on your computer, and edit the asset properties, except for **ID**, **Type**, and **Path**. Use unique names for each asset of the same type in the CSV file. If the CSV file includes multiple assets of the same type and name, only the first asset in the list can have its properties updated in the asset tree after the CSV file is imported.

IMPORTANT:

- Do not modify the information in the **ID**, **Type**, or **Path** column. Assets with the **ID**, **Type**, or **Path** property modified cannot have their properties updated in the asset tree after the CSV file is imported. A CSV file with any column removed cannot be imported.
- To import an extended property, don't just enter the property value while leaving the property name empty in the CSV file. Such extended properties will be skipped during the import. The default extended properties configured by the **Options dialog box: Extended Properties** do not affect the configuration in the CSV file.

b. Save and close the file.

5. Import the CSV file with customized properties.

a. Return to the **Select an option** dialog, select **Edit assets of an asset node**, and then click **Next**.

b. In the **Select an option for asset edit** dialog, select **Import**, and then click **Next**.

c. In the **Import assets to edit** dialog, click **Browse** to select the CSV import file you have created and edited.

d. Click **Start**. A progress bar shows as the tool updates the asset properties.

Click **Cancel** if you want to cancel the current operation. Clicking **Cancel** does not undo asset property updates that have completed. You need to undo the property updates manually.

e. (optional) In the **Finished** dialog, click **Save Summary** to save the result summary as a TXT file.

6. Click **Finish** to exit the or **Back** to return to the **Select an option** dialog.

Duplicate assets of an asset node

Duplicate assets of an asset node and add them to the asset tree with user-defined properties. To do so, you need to complete the following operations:

- Create a CSV file with assets and editable properties as an import file.
- Edit asset properties in the CSV file.
- Import the CSV file with customized properties.

Binders, files, folders, and links cannot be duplicated.

Prerequisites

- Make sure no other user in the system is in Design mode before importing the CSV file.
- Make sure the amount of assets to be added does not exceed the purchased capacity of devices. Once you reach the capacity, you need to reduce the amount of assets or purchase capacity activation for more devices to proceed.

To duplicate assets of an asset node

1. In the **Welcome** dialog, click **Next**.
2. In the **Select an option** dialog, select **Duplicate assets of an asset node**, and then click **Next**.
3. Create a CSV file with assets and editable properties as an import file.
   a. In the **Select an option for asset duplication** dialog, select **Create import file**, and then click **Next**.

      If you have already created a CSV import file, go to Step 5.

   b. In the asset view of the **Export assets to duplicate** dialog, select a node in the asset tree under which the assets you want to duplicate.

      If a device asset is selected, its parent container becomes the node. All assets under this node will be exported to the CSV file. If the device asset doesn't belong to any container, the root of asset tree becomes the node. All assets in the asset tree will be exported to the CSV file.

   c. In the **File Saving Information** field, specify the file name and file path to save the CSV file, and then click **Start**.
   d. (optional) In the **Finished** dialog, click **Save Summary** to save the result summary as a TXT file.
   e. To continue the importing process, click **Back** to return to the **Select an option** dialog. If you want to exit, click **Finish**.
4. Edit asset properties in the CSV file.
   a. Locate and open the CSV file on your computer, and edit the asset properties, except for **ID**, **Type**, and **Path**. If the CSV file includes multiple assets of the same type and name or an asset that has the same type and name as the one under a node where it will be added, a number (like _2) is appended to the asset name to ensure uniqueness.

      By default, the **Configuration Data** column in the created CSV file is empty. You may enter information in the **Configuration Data** column before importing the CSV file. If you import the CSV file without configuration data information, the duplicated assets' **Configuration Data** property will be empty. In this case, edit the **Configuration Data** property of each asset or use the **Edit assets of an asset node** option of the Import Export Utility to edit **Configuration Data**.

IMPORTANT:

- Do not modify the information in the **ID**, **Type**, or **Path** column. Assets with the **ID**, **Type**, or **Path** property modified cannot be added to the asset tree after the CSV file is imported. A CSV file with any column removed cannot be imported.
- To keep the hierarchy of assets as shown in the asset tree when adding them to another node of the asset tree, keep the asset list order in the CSV file. That is, the parent node is listed first, followed by its children nodes or assets. Changing the asset list order will lead to hierarchy changes after the CSV file is imported.
- To import an extended property, don't just enter the property value while leaving the property name empty in the CSV file. Such extended properties will be skipped during the import. The default extended properties configured by the **Options dialog box: Extended Properties** do not affect the configuration in the CSV file.
- Starting from FactoryTalk AssetCentre version 10.00, process device capabilities are not supported. Using the Import Export Utility tool to add process devices to FactoryTalk AssetCentre will consume the capacity activation, and the process devices' hardware and asset properties will be disabled.

b. Save and close the file.

5. Import the CSV file with customized properties.

a. Return to the **Select an option** dialog, select **Duplicate assets of an asset node**, and then click **Next**.

b. In the **Select an option for asset duplication** dialog, select **Import**, and then click **Next**.

c. In the asset view of the **Import assets to duplicate** dialog, select a node in the asset tree under which the duplicated assets will be created. The node can be a generic container or the root node.

If a device asset is selected, the assets will be added to its parent container. If the device asset doesn't belong to any container, the assets will be added to the root, which is the topmost node in the asset tree.

d. In the **File to Import** field of the **Import assets to duplicate** dialog, click **Browse** to select the CSV import file you have created and edited.

e. Click **Start**.

f. When device items (except for Asset Inventory) are selected, a message box opens, notifying the status of licensed asset capacity.

- If the amount of assets to add doesn't exceed the purchased capacity, click **Yes** to proceed.

- If the amount of assets to add exceeds the purchased capacity, you need to reduce the amount of assets or increase licensed capacity.

A progress bar shows as the tool adds the new asset.

Click **Cancel** if you want to cancel the current operation. Clicking **Cancel** does not delete assets that have already been added to the asset tree. You need to delete them manually.

g. (optional) In the **Finished** dialog, click **Save Summary** to save the result summary as a TXT file.

6. Click **Finish** to exit or **Back** to return to the **Select an option** dialog.

   If the process completes without being ended, the CSV file is added under the same node where the new assets are created.

FactoryTalk AssetCentre Abandoned Assets Cleanup Utility

The FactoryTalk AssetCentre Abandoned Assets Utility is used to recover assets that have an invalid hierarchical parent listed. This could lead to problems with the FactoryTalk AssetCentre system, including errors during scheduled searches and a failure to run the Archive Extractor Utility.

This tool will discover any abandoned assets and recover them to a user-designated container that will be created in the root of the asset tree. It is recommended to run this tool on the same computer hosting the SQL Server AssetCentre database, but it can be run from anywhere that can connect to the SQL Server.

This tool is for use with FactoryTalk AssetCentre versions 3.00 and later.

How to find the FactoryTalk AssetCentre Abandoned Assets Cleanup Utility

- The RA.FTAC.AbandonedAssetsFinder.exe is in C:\Program Files (x86)\Rockwell Software \AssetCentre Client.

To discover and recover abandoned assets

1. Extract the files from the ZIP file.
2. Double-click **RA.FTAC.AbandonedAssetsFinder.exe**.
3. In the **SQL Server name** box, enter the name or IP address of the computer running the SQL Server. The default name is *(local)*.
4. In the **Database name** box, enter the FactoryTalk AssetCentre database name in the SQL Server. The default database name is *AssetCentre*.
5. From the **Authentication** list, specify which authentication to use.
   - To use the credentials of the currently logged-on user, select **Windows Authentication**.
   - To specify the credentials of the database server administrator:
     a. Select **SQL Server Authentication**.
     b. In the **User Name** box, enter the username for the database server administrator.
     c. In the **Password** box, enter the password for the database server administrator.
6. Click **Test Connection** to verify whether the server user name and password are valid.
7. Click **Connect**.

8. This tool will automatically determine if abandoned assets are present.
   - If no abandoned assets are found, this tool does not need to be run.
   - If abandoned assets are present, enter the name of the container to be added to the asset tree, and then click **Execute**.

     A completion notice appears when the operation completes.
9. Close any open FactoryTalk AssetCentre desktop clients and web clients and reopen them to see the newly recovered assets.

Delay on opening the Abandoned Assets Cleanup Utility

If this tool takes a long time to open, it is likely due to a certificate validation problem. If an Ethernet connection is detected, the software will attempt to access the internet to check for a certificate revocation. If no internet access is available, this attempt will take approximately four minutes to time out. Once the timeout occurs, this tool will open.

FactoryTalk VersionWorks Import Utility

Use the FactoryTalk VersionWorks Import Utility to import VersionWorks projects into the FactoryTalk AssetCentre asset tree as binders. In this way, projects that are in the VersionWorks can be edited and modified in the FactoryTalk AssetCentre system.

How to find the FactoryTalk VersionWorks Import Utility

- In the installation package, navigate to 16.00.00-FTAssetCentre\Tools\FTAC Utility \VWorksUtility.

Import the VersionWorks project into FactoryTalk AssetCentre

This tool first reads the CSV file with columns of parameters exported from the VersionWorsk, and then adds them as binder information that will be imported into the FactoryTalk AssetCentre system. A new container called *VersionWorksImport* will be added in the asset tree and all projects will be added in it.

To import the VersionWorks project into FactoryTalk AssetCentre

1. Double-click **VWImportUtility.exe**.
2. In the **Connect to FactoryTalk AssetCentre Database** dialog, do the following:
   - In the **SQL Server Name** box, enter the name or IP address of the computer running the SQL Server. The default name is *(local)*.
   - In the **Database Name** box, enter the FactoryTalk AssetCentre database name in the SQL Server. The default database name is *AssetCentre*.

- From the **Authentication** list, specify which authentication to use.
  - To use the credentials of the currently logged-on user, select **Windows Authentication**.
  - To specify the credentials of the database server administrator:
    a. Select **SQL Server Authentication**.
    b. In the **User Name** box, enter the username for the database server administrator.
    c. In the **Password** box, enter the password for the database server administrator.

3. Click **Test Connection** to verify whether the server username and password are valid.
4. Click **Next**.
5. In the **VersionWorks Import Utility** dialog, do the following:
   - Next to the first box, click **Browse** to select the CSV file that is exported from the VersionWorks. Other file formats are not supported.
   - Next to the second box, click **Browse** to select the VersionWorks File Service folder, where the VersionWorks projects exist.
6. Click **Import**.

   A progress bar shows in the **Importing** window.
7. (optional) To save the log message, Click **Save Log**.
8. Click **Finish** to exit.

   This tool will remove all files and folders in the **UnzipTemp** folder.

Information you need to know when using VersionWorks Import Utility

Be aware of the following information when using VersionWorks Import Utility:

- If you cancel the importing process, you need to delete or rename the VersionWorksImport container before restarting the importing operation.
- Sub folders in the VersionWorksImport container are also defined as containers after being imported to the asset tree.
- For the VersionWorks projects, if their <ComponentId>, <Version>, and <Component_PrjVerzServer> items are the same, only the first item will be imported to FactoryTalk AssetCentre.
- The tool only supports item versions that are in the ascending order after they are sorted by <ComponetId>.
- The version of the VersionWorks project might be various. To support the empty version of the VersionWorks, the version information will be shown in the **Comments** column in the FactoryTalk AssetCentre Archive.
- If the VersionWorks project version is the same as the version in FactoryTalk AssetCentre, comments will be the same as the VersionWorks project's comment. Otherwise, *VersionWorks Version: VersionNumber* will be added in the comment.

- For the first version of the binder in the FactoryTalk AssetCentre Archive, its User information is the local computer name and account name. For other versions, the User information will be the VersionWorks computer name and account name.
- The tool depends on the assemblies of FactoryTalk AssetCentre, which means it bounds with the version of FactoryTalk AssetCentre.

Log Cleanup Utility (DeleteFtacLogRecords.bat)

For earlier FactoryTalk AssetCentre versions (v2.21.01, v2.21.00, v2.00.02, v2.00.01, v2.00.00), use the Log Cleanup Utility (DeleteFtacLogRecords.bat).

Once the tool has been run, the logs will be removed from the database. It has no export function. However, if any FactoryTalk AssetCentre Clients have the logs currently open, the **Logs** tab will need to be closed and reopened to see the changes. None of the FactoryTalk AssetCentre components need to be shut down to run the tool.

How to find the Log Cleanup Utility (DeleteFtacLogRecords.bat)

1. Sign in to Rockwell Automation Knowledgebase, and then search Knowledgebase Document ID: QA10791 - FactoryTalk AssetCentre Log Clean-up Utility.
2. In the **Attachments** section, download LogDeleteScript.zip.

To clean up the logs with the Log Cleanup Utility (DeleteFtacLogRecords.bat)

1. Extract the files from LogDeleteScript.zip on the SQL Server computer.
2. Back up the FactoryTalk AssetCentre database using the appropriate SQL Server management tool, such as SQL Server Management Studio.
3. Double-click **DeleteFtacLogRecords.bat**.
4. Follow the command prompts in the **Command Prompt** window to enter the required information.
   a. Type the log type number, and then press **Enter**.
   b. Type the date, before and including when the logs will be deleted in the order of month, day, and year, and then press **Enter** on each line.
   c. Type your SQL Server instance name, and then press **Enter**.
   d. Type the username for the database server administrator, and then press **Enter**.
   e. Type the password for the database server administrator, and then press **Enter**.
   f. Type **Y**, and then press **Enter** when you see the confirmation message.
   g. After the operation completes, press any key to close the **Command Prompt** window.

   Records cannot be deleted from the current day, only from the past.
5. In the tool's folder, view the **DeleteFtacLogRecords.log** file to verify the operations results. A successful result will show something similar to:

   1> 2> 3>

   Records Deleted = X

   Attachment Deleted = Y

   where *X* is the number of records deleted, and *Y* is the number of attachments deleted.

   An unsuccessful result will show information on why the operation failed.

Sample Run

A sample run of this tool will look similar to the following example, where each line of input appears after pressing **Return** on the previous line. In this example, all Event Logs before and including *September 21, 2018* are deleted from the SQL Server on the computer named *FtacSqlServer*, logging on as *sa* with the password *mypassword*.

Example

```
This script is to be used to manually delete log records from the
FactoryTalk AssetCentre database. Be sure to back up your
AssetCentre database before continuing.
Select the log type to delete:
  1 - Events
  2 - Audits
  3 - Diag & Health
Enter the log type number: 1
Enter the date to delete from.
  Enter the month (1-12): 9
  Enter the day (1-31): 21
  Enter the year (4 digits): 2018
Enter your SQL Server instance name: FtacSqlServer
Enter your SQL Server user login id: sa
Enter your SQL Server user password: mypassword
Are you sure you want to delete the specified log records (Y/N)?
  Y
Deleting records... the operation has completed.
Check the DeleteFtacLogRecords.log file to verify that the delete
was successful and for results information.
Press any key to continue . . .
```

How time is calculated

Event, Audit, or Diagnostic and Health logs are logged in FactoryTalk AssetCentre according to Coordinated Universal Time (UTC), and then converted to the local time zone when displayed in the FactoryTalk AssetCentre desktop and web client. Due to this, the tool will delete logs based on the UTC time stamp, and not the current time zone. This could result in logs being left behind from the last day specified, or deleted from the one outside of the range.

Examples

For time zones that are behind UTC, for example Central Time, this can result in keeping records as opposed to the specified date. Central Time is UTC-6, meaning that an event logged at 18:00, November 11, 2018 Central Time is stored as occurring at 00:00 midnight, November 12, 2018. Thus, if November 11, 2018 was the date specified in the tool, this record would not be deleted from the log because its UTC date falls outside of the date range.

For time zones that are ahead of UTC, for example Beijing Time, this can result in deleting records as opposed to the specified date. Beijing Time is UTC+8, meaning that an event logged at 8:00, November 12, 2018 Beijing Time is stored as occurring at 24:00 midnight, November 11, 2018. Thus, if November 11, 2018 was the date specified in the tool, this record would be deleted from the log despite appearing on the 12th from within the AssetCentre desktop and web client.

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Waste Electrical and Electronic Equipment (WEEE)

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