



TEAMCENTER

Teamcenter Share

Teamcenter 2412

Unpublished work. © 2025 Siemens

This Documentation contains trade secrets or otherwise confidential information owned by Siemens Industry Software Inc. or its affiliates (collectively, "Siemens"), or its licensors. Access to and use of this Documentation is strictly limited as set forth in Customer's applicable agreement(s) with Siemens. This Documentation may not be copied, distributed, or otherwise disclosed by Customer without the express written permission of Siemens, and may not be used in any way not expressly authorized by Siemens.

This Documentation is for information and instruction purposes. Siemens reserves the right to make changes in specifications and other information contained in this Documentation without prior notice, and the reader should, in all cases, consult Siemens to determine whether any changes have been made.

No representation or other affirmation of fact contained in this Documentation shall be deemed to be a warranty or give rise to any liability of Siemens whatsoever.

If you have a signed license agreement with Siemens for the product with which this Documentation will be used, your use of this Documentation is subject to the scope of license and the software protection and security provisions of that agreement. If you do not have such a signed license agreement, your use is subject to the Siemens Universal Customer Agreement, which may be viewed at <https://www.sw.siemens.com/en-US/sw-terms/base/uca/>, as supplemented by the product specific terms which may be viewed at <https://www.sw.siemens.com/en-US/sw-terms/supplements/>.

SIEMENS MAKES NO WARRANTY OF ANY KIND WITH REGARD TO THIS DOCUMENTATION INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT OF INTELLECTUAL PROPERTY. SIEMENS SHALL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES, LOST DATA OR PROFITS, EVEN IF SUCH DAMAGES WERE FORESEEABLE, ARISING OUT OF OR RELATED TO THIS DOCUMENTATION OR THE INFORMATION CONTAINED IN IT, EVEN IF SIEMENS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

TRADEMARKS: The trademarks, logos, and service marks (collectively, "Marks") used herein are the property of Siemens or other parties. No one is permitted to use these Marks without the prior written consent of Siemens or the owner of the Marks, as applicable. The use herein of third party Marks is not an attempt to indicate Siemens as a source of a product, but is intended to indicate a product from, or associated with, a particular third party. A list of Siemens' Marks may be viewed at: www.plm.automation.siemens.com/global/en/legal/trademarks.html. The registered trademark Linux® is used pursuant to a sublicense from LMI, the exclusive licensee of Linus Torvalds, owner of the mark on a world-wide basis.

About Siemens Digital Industries Software

Siemens Digital Industries Software is a global leader in the growing field of product lifecycle management (PLM), manufacturing operations management (MOM), and electronic design automation (EDA) software, hardware, and services. Siemens works with more than 100,000 customers, leading the digitalization of their planning and manufacturing processes. At Siemens Digital Industries Software, we blur the boundaries between industry domains by integrating the virtual and physical, hardware and software, design and manufacturing worlds. With the rapid pace of innovation, digitalization is no longer tomorrow's idea. We take what the future promises tomorrow and make it real for our customers today. Where today meets tomorrow. Our culture encourages creativity, welcomes fresh thinking and focuses on growth, so our people, our business, and our customers can achieve their full potential.

Support Center: support.sw.siemens.com

Send Feedback on Documentation: support.sw.siemens.com/doc_feedback_form

Contents

Introduction to Teamcenter Share collaboration 1-1

Install Teamcenter Share collaboration 2-1

Share data from the Teamcenter web client to Teamcenter Share 3-1

**Replace data in the Teamcenter web client with data imported from
Teamcenter Share** 4-1

**Add new files to the Teamcenter web client by importing them from
Teamcenter Share** 5-1



1. Introduction to Teamcenter Share collaboration

Teamcenter Share is a cloud application that lets you share project files with your collaborators, from anywhere and at any time.

With this browser-based collaboration, you can work on new products and designs with your partners, team members, and manufacturers, and then share your projects with customers for approval or with manufacturers for production. File sharing with Teamcenter Share is secure because you control the access to the files. You can access the sharing history. The file exchange is tracked and recorded.

When Teamcenter Share is integrated with Teamcenter, you can share the following data with your collaborators using Active Workspace:

- CAD part files (NX and Solid Edge)
- Visualization files (JT)
- Documents (Microsoft Word, Excel, and PDF)
- Image files (JPG, TIFF, and so on)



2. Install Teamcenter Share collaboration

As a Teamcenter administrator, you can refer to the following procedure to install Teamcenter Share collaboration.


1. Coordinate with your Siemens Digital Industries Software representative to obtain an **XaaS** type software license. As applicable, add the license file to your Teamcenter license server.
2. Using a Siemens Webkey that is authorized for use with the Teamcenter Share account, log on to the **Xcelerator Admin Console**. Using your Email address, create a user with the **Admin** product role.

For details, in the Xcelerator Admin Console, click **Help**  > **How Do I** > **Assign users**.

Either at this point or later, you can assign additional users who will use or administer Teamcenter Share collaboration.

3. Click **Product Configuration**  to go to the **Product Configuration** tab. Click **Add Configuration**  and in the panel that opens, specify parameters for your product configuration.

For this parameter	Do this
Product Name	Select Teamcenter collaboration with Teamcenter Share .
Installation URL	Enter the URL used to access your installation of Active Workspace.
App Display Name	Enter a name to identify the configuration in the list of configurations.

4. In the panel, click **Add** to add the new configuration. In the configuration table, select your new configuration row and click **Download Key** .

Download and save the Key file in a secure location. This file contains the **Client ID** and **Client Secret** needed for installation.

5. Use either Deployment Center or Teamcenter Environment Manager (TEM) to install the Teamcenter Share collaboration application and microservice. For detailed documentation about installing microservices, see *Microservices and the microservice framework* (Windows or Linux) in the Teamcenter documentation.

During installation, make a note of the IP address of the machines that host the following components:

- the Active Workspace Gateway.
- the microservice node(s) running the Teamcenter Share collaboration microservice.

These IP addresses are needed when creating firewall rules.

- a. Add the **Teamcenter Share Collaboration** applications using either Teamcenter installation tool.

Deployment Center	<ul style="list-style-type: none"> • Teamcenter Share Collaboration Active Workspace • Teamcenter Share Collaboration
TEM	<p>On the business logic server:</p> <ul style="list-style-type: none"> • Teamcenter Share Collaboration Active Workspace Client • Teamcenter Share Collaboration • Teamcenter Share Collaboration Active Workspace <p>On the microservice node:</p> <ul style="list-style-type: none"> • Teamcenter Share Microservice

- b. Proceed to the **Active Workspace Gateway** component. Enter the **Teamcenter Share URL**, the **Client ID**, and the **Client Secret** values. Do not include quotation marks surrounding the **Client ID** and **Client Secret** values.

The Teamcenter Share URL is <https://share.sws.siemens.com/>. The **Client ID** and the **Client Secret** values are contained in the Key downloaded from the **Xcelerator Admin Console**.

Make note of the IP address of the host machine.

- c. Proceed to the **Microservice Node** component. Configure at least one instance of the Teamcenter Share collaboration microservice.

Make note of the IP address of the host machine.

6. Create an allowlist to enable outgoing access through your network firewall to Teamcenter Share.

To ensure secure communications and to protect data integrity, all Teamcenter Share collaboration communication is encrypted. To enable Teamcenter to authenticate and push and pull files with Teamcenter Share running in the cloud, you must allow an outbound network connection through your internet firewall to specific internet URLs. This connection is on port 443, which is the secure port requiring HTTPS.

For security, Teamcenter Share does not initiate communication with your internal network. Communication is only established via outgoing requests from the following:

- the Active Workspace Gateway
- microservice node(s) running the Teamcenter Share collaboration microservice

to the following URLs:

```
https://samauth.us-east-1.sws.siemens.com/
```

```
https://collab.us-east-1.sws.siemens.com/
```

```
https://dss.us-east-1.sws.siemens.com/
```

To enable outgoing requests to Teamcenter Share, create firewall rules to allow traffic to the above URLs on port 443. The allowlist rules for interned firewalls typically must specify the following:

- Source of the outgoing request (IP address of the Active Workspace Gateway host or the Teamcenter Share collaboration microservice node host)
- Destination for the request (URL of the Teamcenter Share service)
- Port (443)
- Protocol (TCP)

Example logical representation of a firewall rule:

"Allow <192.168.1.1> to access <https://dss.us-east-1.sws.siemens.com> on port 443"

Allowlist approaches for containerized deployments

A container cluster managed by Docker Swarm or Kubernetes may have many worker nodes. Typically, not every node runs the containerized Active Workspace Gateway or the Teamcenter Share Collaboration microservice; the exact node where a component runs is determined by the container manager and varies over time.

A firewall allowlist rule requires the source address for the node where a component runs. The approach for defining firewall rules depends on the network topology around the container cluster. There are two basic cases:

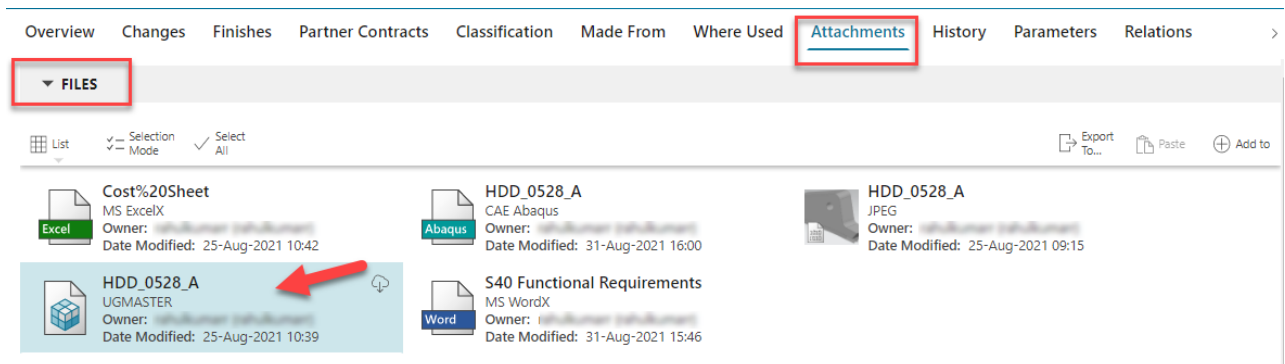
- If there are no other network components between the container cluster and the firewall, then traffic to the firewall appears to come directly from the container cluster worker nodes. In this case, the source for the traffic in the firewall rule is the IP address of the worker node itself. To ensure that the Active Workspace Gateway and Teamcenter Share collaboration microservice can communicate through the firewall regardless of where they run in the container cluster, add allowlist rules that include all nodes in the container cluster.
- If the topology leverages a NAT or a commercial egress component, traffic from the container cluster flows to the NAT or egress component and then out via the firewall. Treat the egress component as the source address in the firewall rule.

3. Share data from the Teamcenter web client to Teamcenter Share



You can share CAD files such as NX and Solid Edge part files and non-CAD files such as Microsoft Office documents and PDFs from the Teamcenter web client to Teamcenter Share. Subsequently, you can log on to Teamcenter Share and invite suppliers to collaborate with you to work on those files. Suppliers receive an email notification with a link to log on to Teamcenter Share. You can grant suppliers full-access, markup-and-download, or markup-only permissions for the shared files.

To share files:

1. In the Teamcenter web client, locate the object that contains the data you want to share with your suppliers or partners.
2. Click the **Attachments** tab.
3. In the **Files** section, select the dataset to share.



You can only share individual datasets.

4. Click **Share**  → **Send to Teamcenter Share** .
 5. The system launches a new browser tab where you must sign in to Teamcenter Share using your Webkey email and password.
 6. On the **Send to Teamcenter Share** panel, specify the **Teamcenter Project** you want to send the data to by doing the one of the following:
 - Select an existing project from the **Teamcenter Project** list.
- OR
- Create a new project.

- a. Click **Create Project** (located above the **Teamcenter Project** drop-down list).
 - b. Assign a name and enter a description.
 - c. Click **Create**.
7. Click **Send**.

When the export is complete, you receive a notification message with the file and the project name.

View all Teamcenter projects where a file was shared




You can also view all Teamcenter projects where a file was shared.

In the **Table** view, you can view the **Teamcenter Projects** column that displays all projects as links that will open the file in a new browser tab.

Alternatively, you can right-click the file in the **List** view and choose **Open in Teamcenter Share**. The system redirects you to the most recent project where the file was shared by opening it in a new browser tab.

4. Replace data in the Teamcenter web client with data imported from Teamcenter Share

After suppliers upload updated versions of their files back to Teamcenter Share, you can replace the existing files with the updated ones in the Teamcenter web client.

1. Navigate to the object that contains the data that you want to update.
2. Click the **Attachments** tab.
3. In the **Files** section, select the dataset to replace.
4. Click **Edit**  > **Replace File**  to display the **Replace** panel.
5. In the **Replace** panel, click **Select File** and then **Select from Teamcenter Share**.  to view all projects in Teamcenter Share.
6. In the new browser tab, sign in to Teamcenter Share using your Webkey email and password.
7. Choose the project that contains the updated data.

Tip:

You can also search for a Teamcenter Share project using the **Filter** box.

8. Choose the updated file.
9. Click **Replace**.

For CAD files, such as NX and Solid Edge, the files are imported in the background. You receive a notification once the process is complete.

5. Add new files to the Teamcenter web client by importing them from Teamcenter Share

You can import additional files from Teamcenter Share to the Teamcenter web client.

1. In the Teamcenter web client, navigate to the object where you want to add any additional files from Teamcenter Share provided by your supplier or partner.
2. Click the **Attachments** tab.
3. Click **Add to** ⊕ to display the **Add** panel in the **Files** section.
4. In the **Add** panel, click **Select File** and then **Select from Teamcenter Share** to view the projects in Teamcenter Share.
5. Choose the Teamcenter Share project that contains the file you want to add.

Tip:

You can also search for a Teamcenter Share project using the **Filter** box.

6. Select the file.
7. Click **Add**.

For CAD files, such as NX and Solid Edge, the files are imported in the background. You receive a notification once the process is complete.