

Installation Manual

Frontline Spatial Installation Manual

Step-by-step setup of the TeamViewer Frontline Spatial
BOM integration with Siemens Teamcenter.



Frontline Spatial | Siemens Teamcenter | Installation manual

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1. Introduction

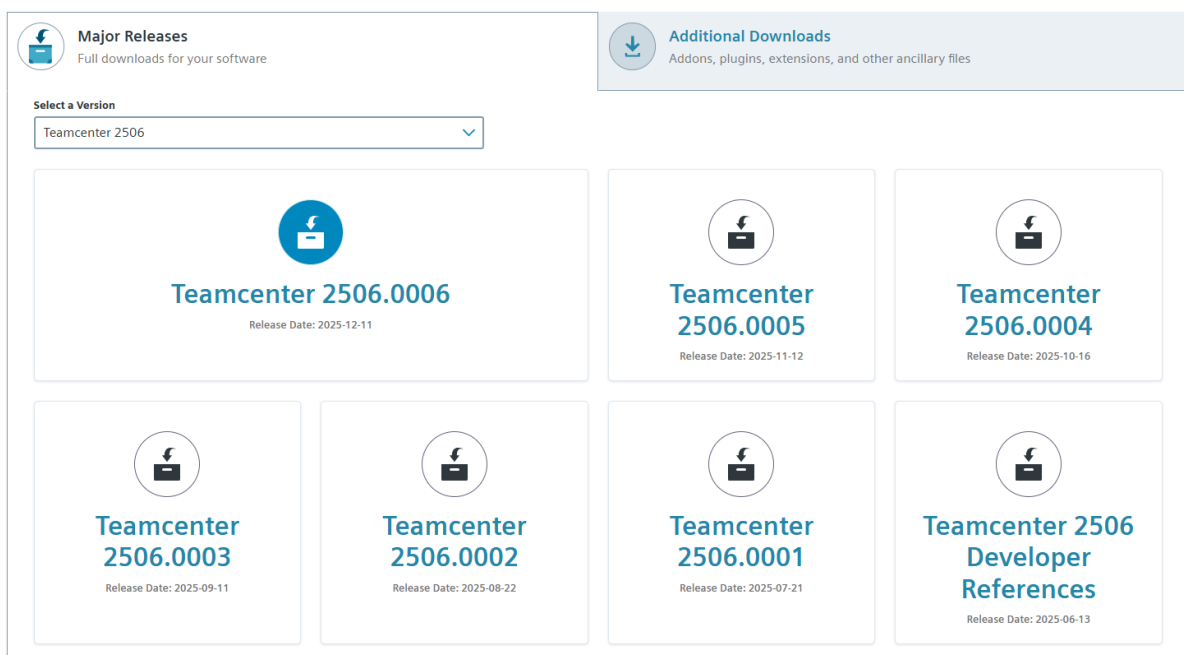
This guide outlines the steps required to install and configure the BOM integration between Siemens Teamcenter and Frontline Spatial. It includes technical prerequisites, deployment instructions, and plugin setup to enable seamless transfer of BOM data into Spatial Editor.

2. Prepare the installation

The TeamViewer Frontline Spatial BOM integration is deployed to your Teamcenter installation using a script you generate with Teamcenter's Deployment Center. You can download a zip file containing everything you need from the [Siemens Support Center](#). This requires a valid license.

The following minimum list of software must be downloaded from the Siemens Support Center:

- Teamcenter including major version and latest Teamcenter patch



- TeamViewer Frontline Spatial Integration
- (Optional) Cortona3D Technical Publications

Place the downloaded software in the Deployment Center repository. Please follow the instructions in the *Manage Repositories* section of the Deployment Center documentation.

3. Installing TeamViewer Frontline Spatial Integration

This guide is intended to help Teamcenter administrators install and configure the TeamViewer Frontline Spatial Integration software to enable collaborative work within Siemens Teamcenter.

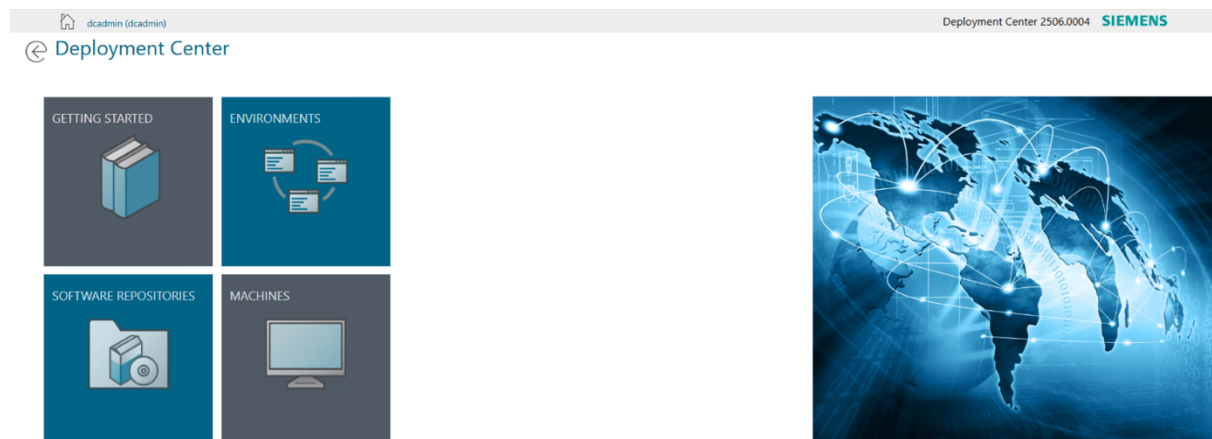
The following instructions focus on the initial installation of TeamViewer Frontline Spatial Integration on existing Teamcenter installation.

Note

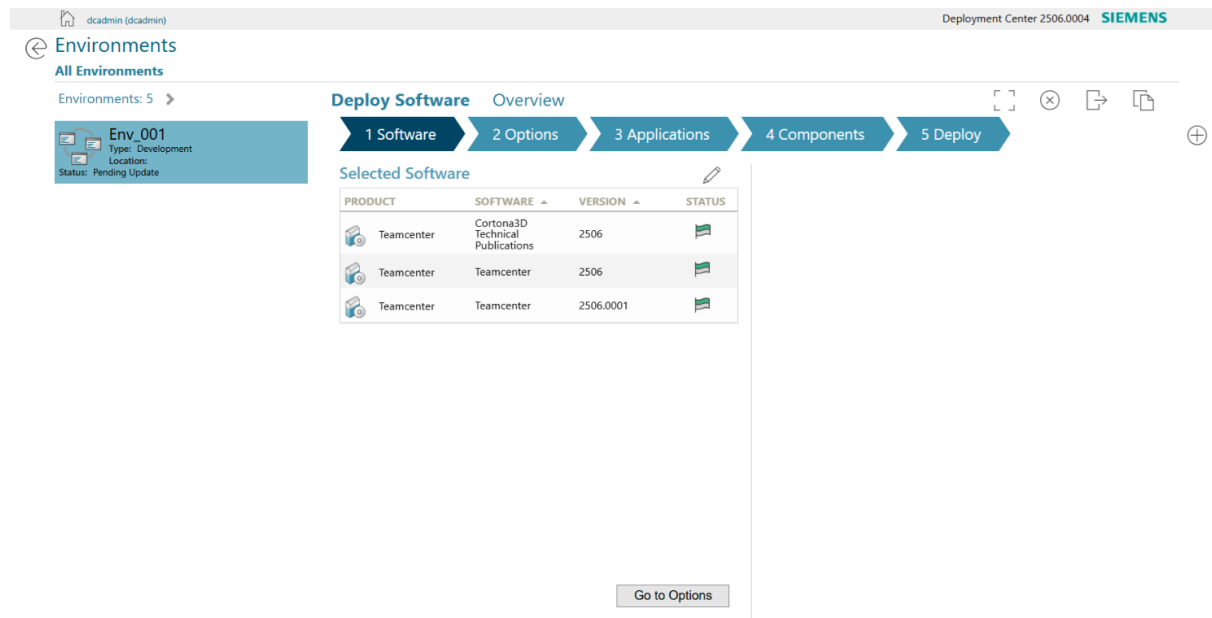
If RapidAuthor for Teamcenter is planned to be used together with TeamViewer Frontline Spatial Integration, first follow the installation instructions in the ***RapidAuthor Connector for Teamcenter – Installing and Configuring*** document provided with the RapidAuthor Connector software.

Follow the steps below to install TeamViewer Frontline Spatial Integration to your environment:

- Open the Deployment Center.



- Open Environments section and select your environment



- Click Add or Remove Selected Software and select TeamViewer Frontline Spatial Integration

Deployment Center 2506.0004 SIEMENS

Environments

All Environments

Environments: 5

Env_001
Type: Development
Location:
Status: Pending Update

Deploy Software Overview

1 Software 2 Options 3 Applications 4 Components 5 Deploy

Selected Software

PRODUCT	SOFTWARE	VERSION	STATUS
Teamcenter	Cortona3D Technical Publications	2506	
Teamcenter	Teamcenter	2506	
Teamcenter	Teamcenter	2506.0001	

Available Software

SOFTWARE	VERSION	DEPENDENCY
☒ Teamcenter Cortona3D Technical Publications	2506	Teamcenter 2506
☒ Teamcenter Teamcenter	2506	
☒ Teamcenter Teamcenter	2506.0001	Teamcenter 2506
☐ Teamcenter Teamcenter	2506.0004	Teamcenter 2506
☒ Teamcenter TeamViewer Frontline Spatial Integration	2506	Teamcenter 2506

Go to Options Update Selected Software Cancel

- Click Update Selected Software
- Check TeamViewer Frontline Spatial Integration in list and click Go to Options
- In Options section click Save Environment Options
- In Applications section click Add or Remove Selected Applications

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Environments

All Environments

Environments: 5

Env_001
Type: Development
Location:
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Deploy Software Overview

1 Software 2 Options 3 Applications 4 Components 5 Deploy

Selected Applications

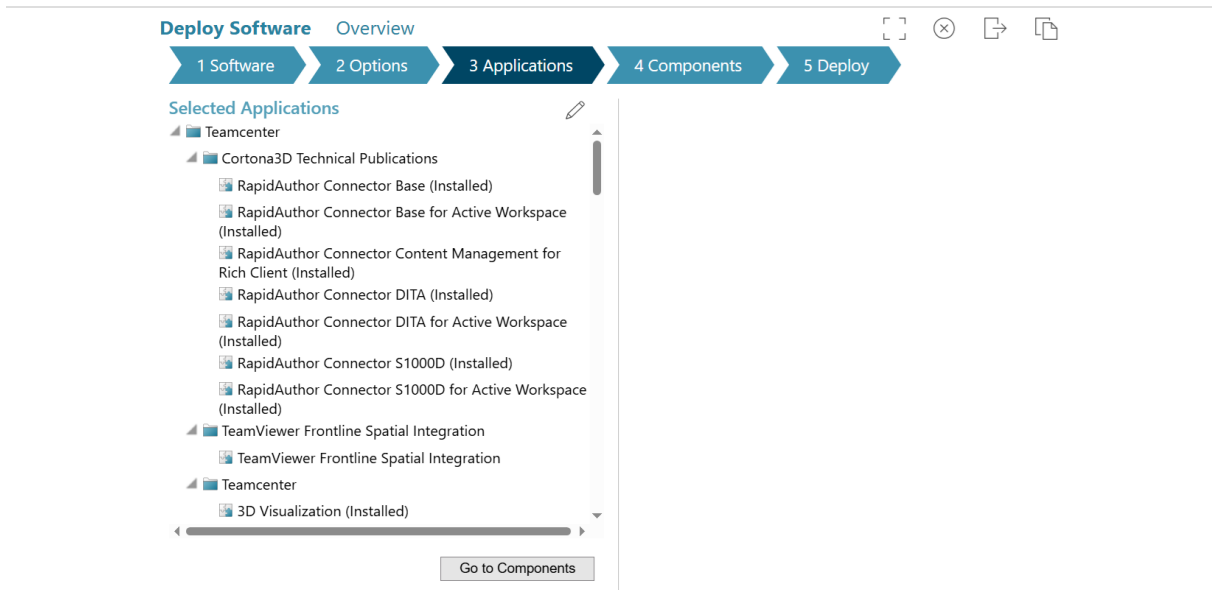
- Teamcenter
 - Cortona3D Technical Publications
 - RapidAuthor Connector Base (Installed)
 - RapidAuthor Connector Base for Active Workspace (Installed)
 - RapidAuthor Connector Content Management for Rich Client (Installed)
 - RapidAuthor Connector DITA (Installed)
 - RapidAuthor Connector DITA for Active Workspace (Installed)
 - RapidAuthor Connector S1000D (Installed)
 - RapidAuthor Connector S1000D for Active Workspace (Installed)
 - 3D Visualization (Installed)

Available Applications

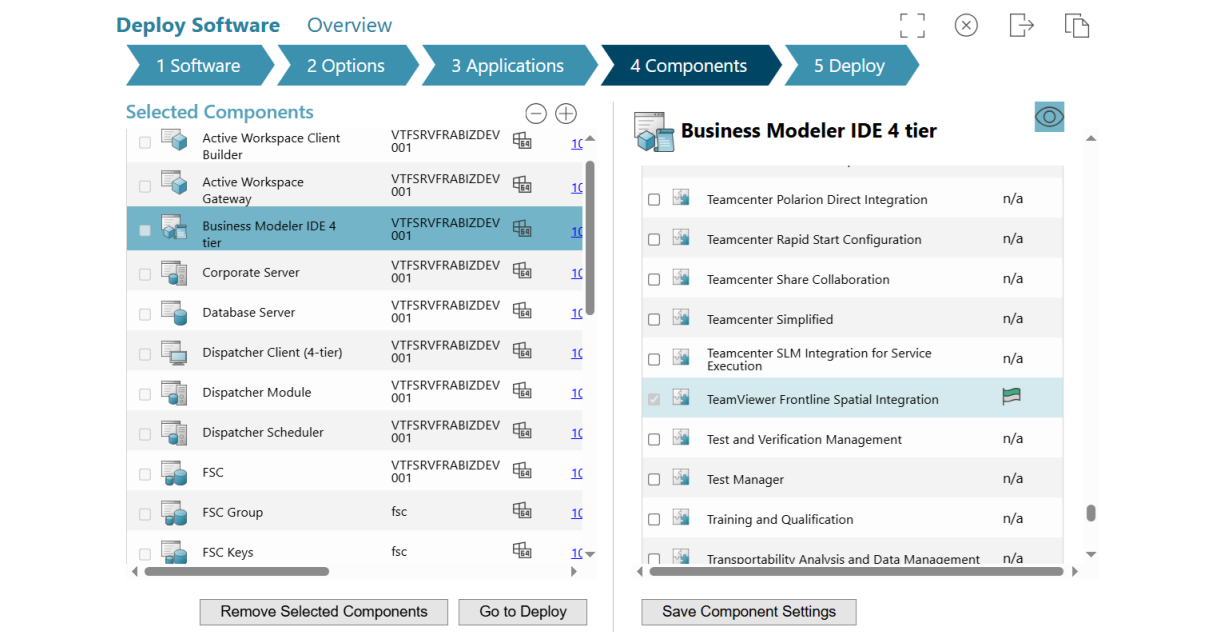
- Cortona3D Technical Publications
 - RapidAuthor Connector Base
 - RapidAuthor Connector Base for Active Workspace
 - RapidAuthor Connector Content Management for Rich Client
 - RapidAuthor Connector DITA
 - RapidAuthor Connector DITA for Active Workspace
 - RapidAuthor Connector Extension for RapidCompiler
 - RapidAuthor Connector S1000D
 - RapidAuthor Connector S1000D for Active Workspace
- TeamViewer Frontline Spatial Integration
- Teamcenter
 - 3D Clearance

Go to Components Update Selected Applications Cancel

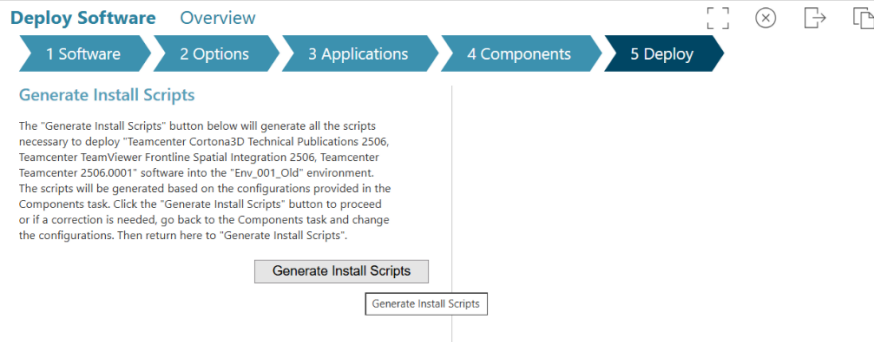
- In Available Applications select TeamViewer Frontline Spatial Integration
- Click Update Selected Applications and confirm that TeamViewer Frontline Spatial Integration is on your selected application list



- Next click Go to Components
- Optionally, if Teamcenter configuration or customization is planned for this environment, the TeamViewer Frontline Spatial Integration BMIDE (Business Modeler Template) can be installed by selecting the TeamViewer template in the *Templates and Client* section of the Business Modeler component.



- Proceed with the configuration of the Teamcenter components. No configuration is required for the TeamViewer Frontline Spatial Integration.
- Next, click Go to Deploy
- In Deploy section, click Generate Install Scripts

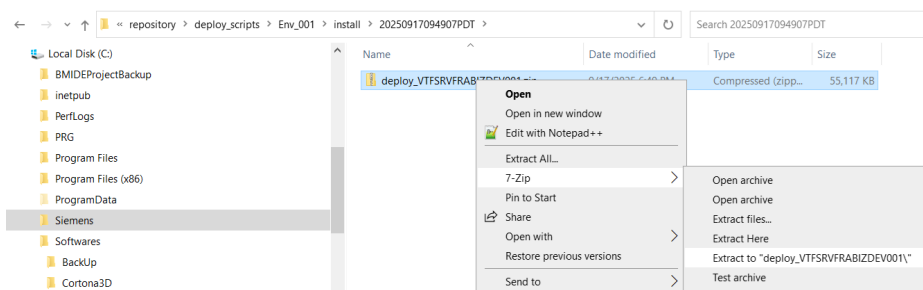


- When finished, confirm the location of the deployment script.
- Please proceed with updating the Environment by using the Install Scripts.

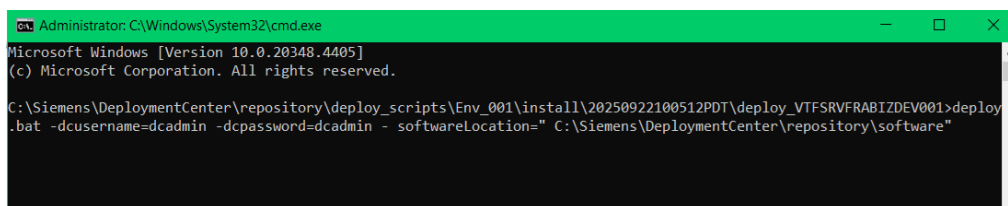
4. Update Environment by using the Install Scripts

Follow the steps below to update the environment:

- Navigate the deployment script on the target machine and extract it to the working folder



- Go to the deployment package folder and open a command prompt at the location of the deployment package.
 - Then run `deploy.bat`, specifying the location of the shared directory that contains the software using the `-softwareLocation` argument, and providing the Deployment Center credentials using the `-dcusername` and `-dcpass` arguments.
- `deploy.bat -dcusername=dcadmin -dcpass=dcadmin - softwareLocation="C:\Siemens\DeploymentCenter\repository\software"`**



- Check the Command Prompt console for deployment status and any errors.

5. Configure TeamViewer Frontline Spatial Integration

5.1. Teamcenter preferences for Frontline Spatial

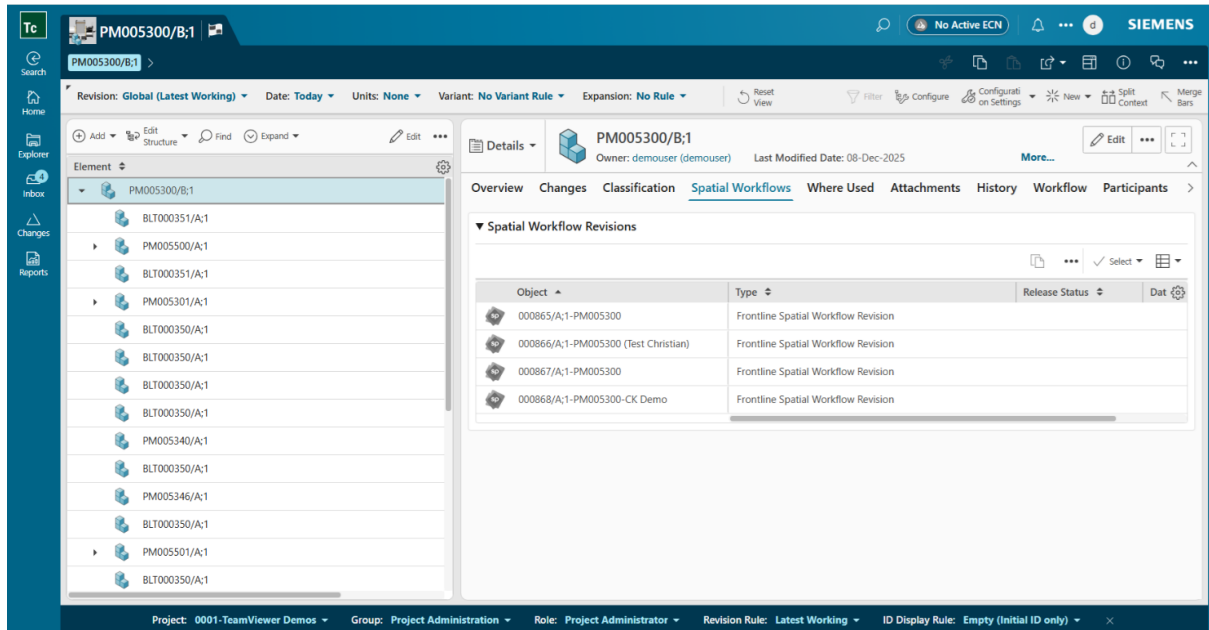
The TeamViewer Frontline Spatial BOM Integration deploys preferences that must be configured correctly, so the integration functions correctly. By default, the preferences are configured to use localhost, so the integration will only work on the machine on which Teamcenter is deployed.

You will need to change the preferences to use the external hostname of your installation:

TeamViewer_Teamcenter_SOA_Url	Enables TeamViewer Frontline Spatial Editor communication with the Teamcenter SOA API. Example of the preference value: <i>https://server-hostname/tc</i>
TeamViewer_Teamcenter_SOA_Proxy_Url	Enables TeamViewer Frontline Spatial Editor communication with the Teamcenter SOA API. This additional preference allows you to configure a secondary URL to access. Spatial Editor will try accessing both <i>TeamViewer_Teamcenter_SOA_Url</i> and <i>TeamViewer_Teamcenter_SOA_Proxy_Url</i> . Example of the preference value: <i>https://forward-proxy-url/tc</i>
TeamViewer_Teamcenter_Fms_Url	Needs to be configured with the endpoint “/fmsRest/v1/files” being added at the end (unless the endpoint is mapped to another path in your environment). Example of the preference value: <i>https://server-hostname/fmsRest/v1/files</i>
TeamViewer_Teamcenter_Fms_Proxy_Url	Enables TeamViewer Frontline Spatial Editor communication with the Teamcenter FMS. It needs to be configured with the endpoint “/fmsRest/v1/files” appended (unless that is mapped to another path in your environment). Spatial Editor will try accessing both <i>TeamViewer_Teamcenter_Fms_Url</i> and <i>TeamViewer_Teamcenter_Fms_Proxy_Url</i> . Example of the preference value: <i>https://forward-proxy-url/fmsRest/v1/files</i>

5.2. Enabling the **Spatial Workflows** tab for Active Workspace

After installing TeamViewer Frontline Spatial Integration, a **Spatial Workflows** tab is added in the Active Workspace for Item Revision objects.

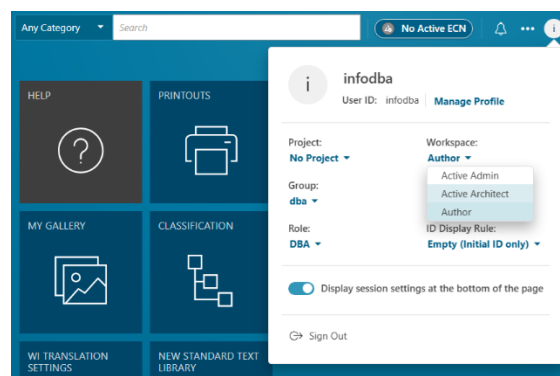


If the **Spatial Workflows** tab is not enabled for Item Revision objects, or if you need to add this tab to other object types (such as Part Revision), follow the instructions below:

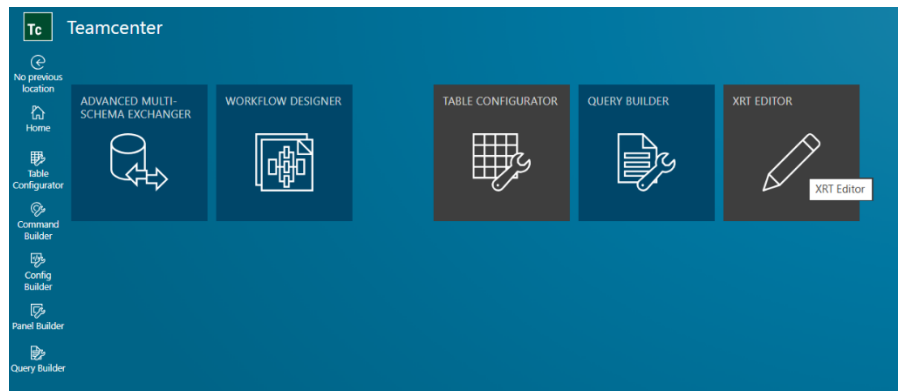
Note

For detailed instructions, refer to the *Active Workspace Customization – Modifying Style Sheets Using the XRT Editor* documentation available in the Siemens Support Center.

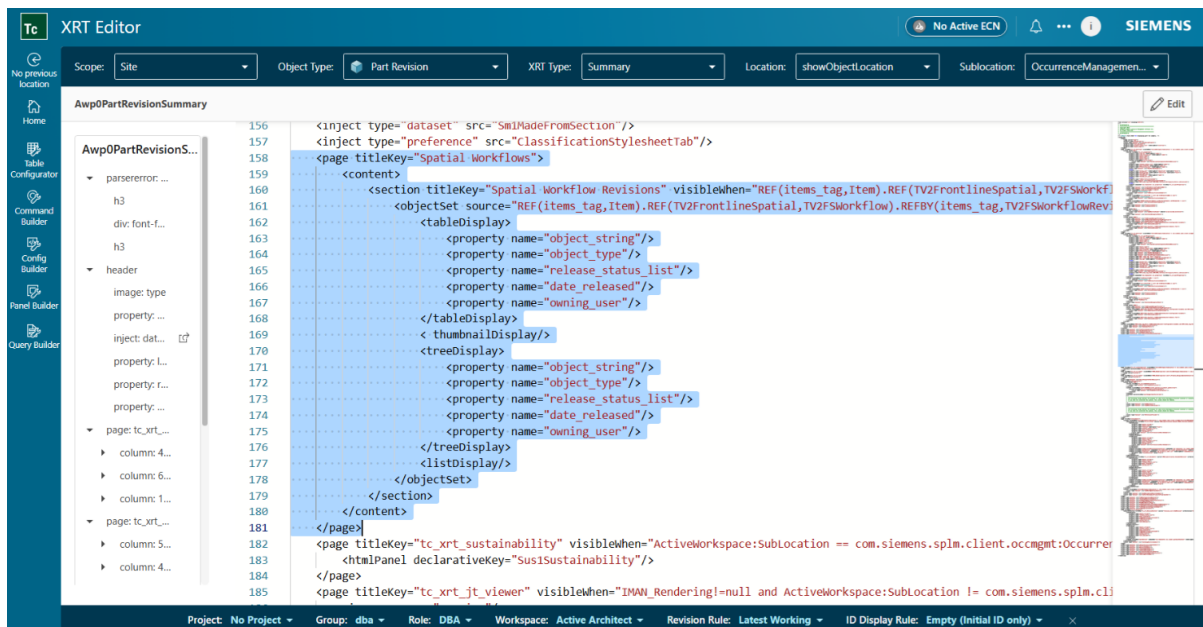
- Sign in to Active workspace using administrative credentials.
- Change the user Workspace to Admin Architect



- Start XRT Editor from the Home Dashboard



- **Select** Site in the Scope field.
- **Select** the required Object Type (for example, Part Revision).
- **Select** Summary in the XRT Type field.
- **Select** showObjectLocation in the Location field.
- **Select** OccurrenceManagementSubLocation in the Sublocation field and click **Load**.



- The XRT stylesheet appears in the view.
- Click **Edit** to start editing.
- Insert the following XML fragment at the page level of the stylesheet.

```

<page titleKey="Spatial Workflows">
  <content>
    <section titleKey="Spatial Workflow Revisions"
visibleWhen="REF(items_tag,Item).REF(TV2FrontlineSpatial,TV2FSWorkflow).REFBY(items_tag,TV2FSWorkflowRevision).object_string!=null">
      <objectSet
source="REF(items_tag,Item).REF(TV2FrontlineSpatial,TV2FSWorkflow).REFBY(items_tag,TV2FSWorkflowRevision)" defaultdisplay="tableDisplay" sortBy="object_string"
sortdirection="ascending">
        <tableDisplay>
          <property name="object_string"/>
          <property name="object_type"/>
          <property name="release_status_list"/>
          <property name="date_released"/>
          <property name="owning_user"/>
        </tableDisplay>
        <thumbnailDisplay/>
        <treeDisplay>
          <property name="object_string"/>
          <property name="object_type"/>
          <property name="release_status_list"/>
          <property name="date_released"/>
          <property name="owning_user"/>
        </treeDisplay>
        <listDisplay/>
      </objectSet>
    </section>
  </content>
</page>

```

- Click **Save** to save the changes.

5.3. Teamcenter preferences for RapidManual for Teamcenter

The integration between RapidManual and TeamViewer Frontline Spatial applications is configured using Teamcenter preferences. Default values for these preferences enable a smooth integration (see below) and should be changed only intentionally for specific purposes.

Preference	Description
Cortona3D_TeamViewer_URL	URL for launching TeamViewer Spatial editor. Default Value: <i>spatialeditorurl://script/rapid-manual-importer?filepath=</i>
Cortona3D_TeamViewer_tempDir	An absolute path to the temporary folder to be used by TeamViewer Spatial Editor. RapidManual or RapidLearning exports a publication (.vmb file) to this folder, which will then be processed by the TeamViewer Spatial editor. Note: The file will not be deleted automatically from the folder. Default Value: <i>c:\Temp</i>

To edit the preferences please consult the Teamcenter Preferences document, section *Working with Preferences in Active Workspace*, from the Siemens Teamcenter documentation for details.

6. Troubleshooting

6.1. Troubleshooting SOA and FMS URI Preferences

If you are seeing errors when trying to open your BOM in Spatial Editor, they are often related to a misconfiguration of the URL preferences:

Check URLs:

Ensure that the preference **TeamViewer_Teamcenter_SOA_Url** is configured correctly. If the **TeamViewer_Teamcenter_SOA_Url** is incorrect, the Spatial Editor will throw a login error that the server URL is invalid. This value needs to match the TC_SOA_URL. You may also have configured this URL in the EasyPlan server.xml or in your RAC under Organization -> Sites -> SOA URL, so you might look those up as a reference.

Ensure that the FMS URL is configured correctly:

If your preference **TeamViewer_Teamcenter_Fms_Url** preference is incorrect, you will get errors when downloading the JT files. If you enter your **TeamViewer_Teamcenter_Fms_Url** concatenated with a random string in the browser, Teamcenter should return an "Error 400 Unknown_TICKET_TYPE" (e.g., *https://server-hostname/fmsRest/v1/files/abcd*). If it does not, your FMS URL is incorrect.

Use Proxy URLs:

If you are accessing your active workspace through a proxy, make sure to set the SOA/ FMS proxy URLs. If you do not, you can set these preferences to the exact same values as the ***TeamViewer_Teamcenter_SOA_Url*** and ***TeamViewer_Teamcenter_Fms_Url***.

Avoid Localhost:

Use the actual server hostname in preferences.