

User Manual

Frontline Spatial User Manual

Working with the TeamViewer Frontline Spatial integration
for Siemens Teamcenter



Frontline Spatial User Manual

Contents

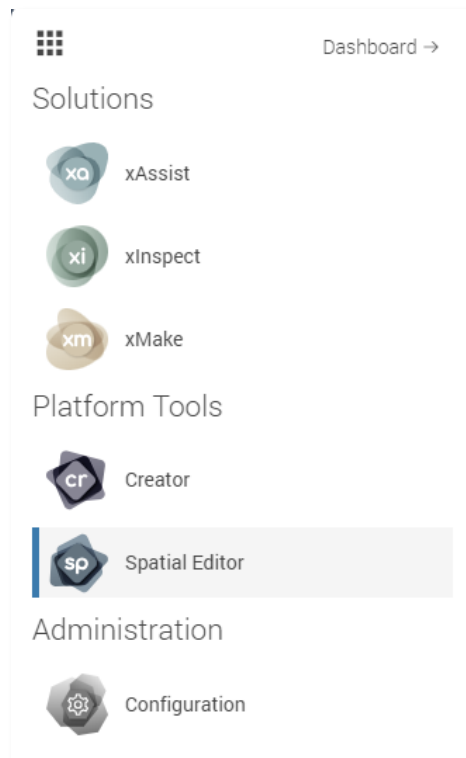
1.	Installation.....	3
2.	Getting Started	4
3.	Working with Projects.....	6
3.1.	Opening Projects	6
3.2.	Updating BOM Changes	7
4.	Saving Projects	8
4.1.	Saving to Teamcenter	8
4.2.	Saving to Locally	8
5.	Detaching a Spatial Workflow Project	9
6.	Troubleshooting	10

1. Installation

To leverage the BOM integration into TeamViewer Frontline Spatial Editor, you must download and install the “Spatial Editor Teamcenter for Windows” on your computer. It is available either via Siemens Support Center (<https://support.sw.siemens.com/en-US/>) or by accessing your Frontline Command Center.

Steps to Download from your Frontline Command Center:

1. Log in to your Frontline Command Center (FCC) instance.
2. Navigate to the “Spatial Editor” platform tool.



3. Ensure you have been assigned the “Spatial Teamcenter Add-on” license and the “Spatial Teamcenter” role to download the Teamcenter version of Spatial Editor.

4. Download and install the latest Spatial Editor Teamcenter version.

The screenshot shows the 'Configuration' page in Teamcenter. On the left is a navigation pane with 'Spatial Workflows' and 'Downloads'. The main content area is divided into three sections:

- Spatial Editor Teamcenter for Windows**
Current Version: 4.21.0
Features:
 - Create spatial workflows with easy drag & drop functionalities
 - No programming skills needed, simply configure existing components
 - Deploy your created content and workflows to your mobile devices instantlyA button labeled 'DOWNLOAD SPATIAL EDITOR TEAMCENTER FOR WINDOWS' is present.
- Spatial Workplace Mobile**
Current Version: 4.21.5
Features:
 - Experience and interact with 3D and multi-media contents
 - Visual instructions enable easy knowledge transfer
 - Deployable across a multitude of mobile devicesButtons for 'GET IT ON Google Play' and 'Download on the App Store' are shown, along with a disclaimer: 'Google Play and the Google Play logo are trademarks of Google LLC.'
- Spatial Workplace HoloLens**
Current Version: 4.21.5

2. Getting Started

To open a BOM in Frontline Spatial Editor, follow these steps:

1. In Teamcenter, open a BOM view (Item Revision).
2. Select “Open” → “Open in Frontline Spatial”.
3. This launches Spatial Editor, which fetches and loads BOM data.

The screenshot shows the Teamcenter interface for a BOM view titled 'TOPIC_0000000003/001;1-Toy Crane Maintenance Procedure'. The left pane shows a tree structure with the following items:

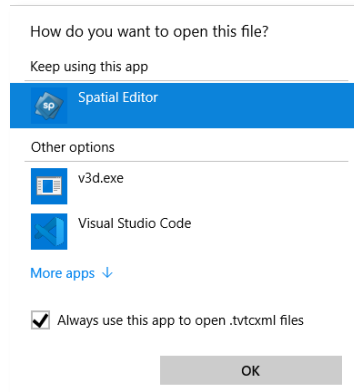
Element	ID	Revision	Revision Name	Description
TOPIC_0000000003/001;1-Toy Crane Mainten...	TOPIC_0000000003	001	Toy Crane Maintenance Procedure	
044713/E1-Crane Assembly Toy	044713	E	Crane Assembly Toy	044713
044742/E1-crane_assembly.asm	044742	E	crane_assembly.asm	044742

The right pane shows the 'PROPERTIES' and 'ACTIONS' tabs. The 'ACTIONS' tab is active, showing a context menu with the following options:

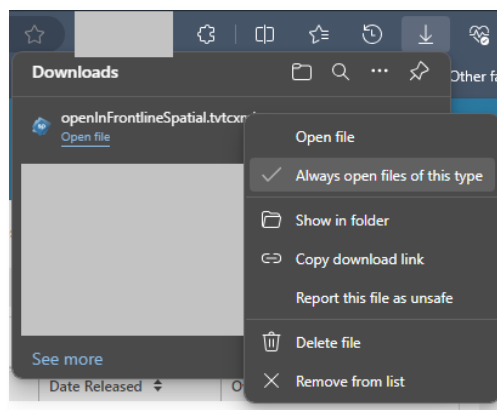
- Open in New Window
- Open in New Tab
- Open in Visualization
- Open in Rich Client
- Open in Frontline Spatial (highlighted)
- Open in NX
- Open in RapidAuthor
- Open in Illustrator

When clicking on “Open in Frontline Spatial,” a file with the “.tvtxml” extension will be downloaded. To facilitate their future workflow, users should perform two additional steps:

1. Associate the “.tvtxml” file type with the “Spatial Editor” application (by selecting the “Open with” dialog of the Windows Explorer)



2. Configure the web browser to open files of this type directly. For example, in Edge, users will need to open the Downloads menu, right-click on the downloaded file, and select “Always open files of this type”.



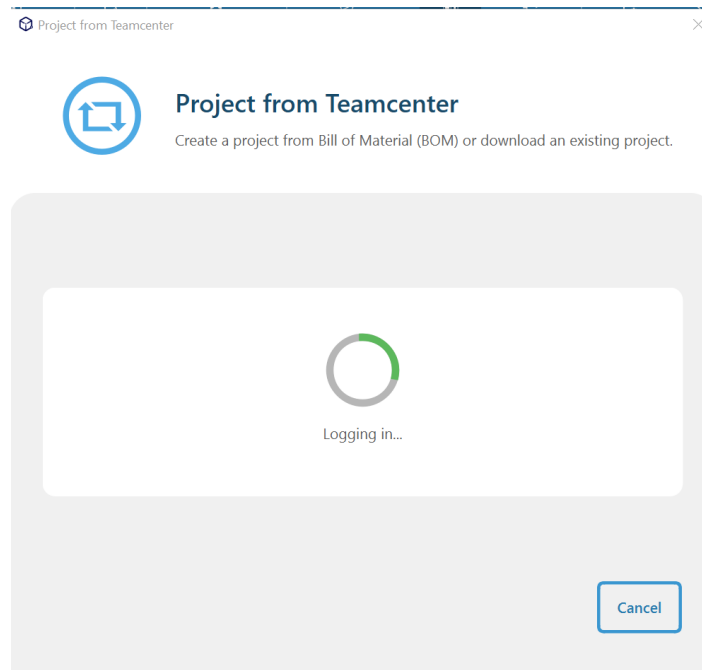
Once this is set up, using the “Open in Spatial Editor” option in Teamcenter will open the Spatial Editor directly.

To find a user manual for the Frontline Spatial Editor, please reference the Frontline Spatial documentation at [Starting with Frontline Spatial](#).

3. Working with Projects

3.1. Opening Projects

A Teamcenter project can only be opened from Teamcenter as described above. Upon opening, spatial fetches the project from Teamcenter.



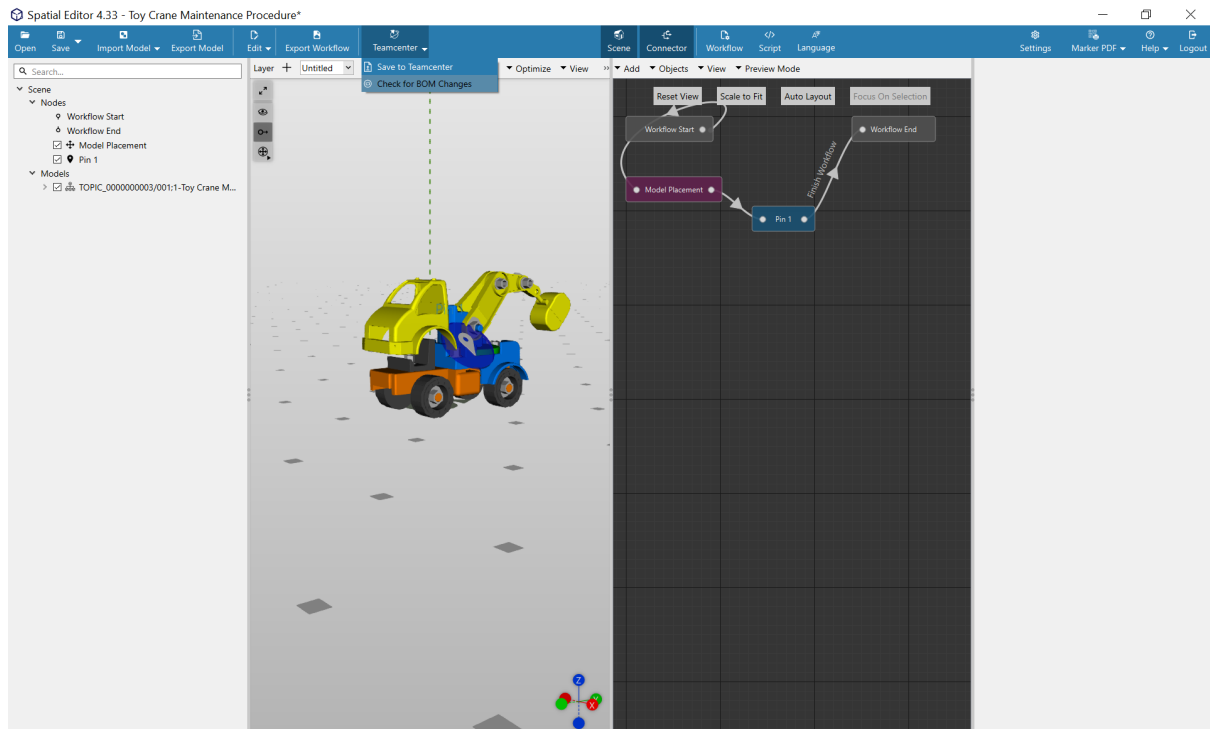
The Spatial Editor will always open the latest revision of a Spatial Workflow when it is opened from Teamcenter. You can create revisions as usual to manage versioning. If necessary, you can also download the dataset of old revisions and manually open them in Spatial Editor (these will then be detached from Teamcenter, however).

Note: The “New project” or “Open project” options in the Spatial Editor allow creating and editing projects, but they are always disconnected from Teamcenter.

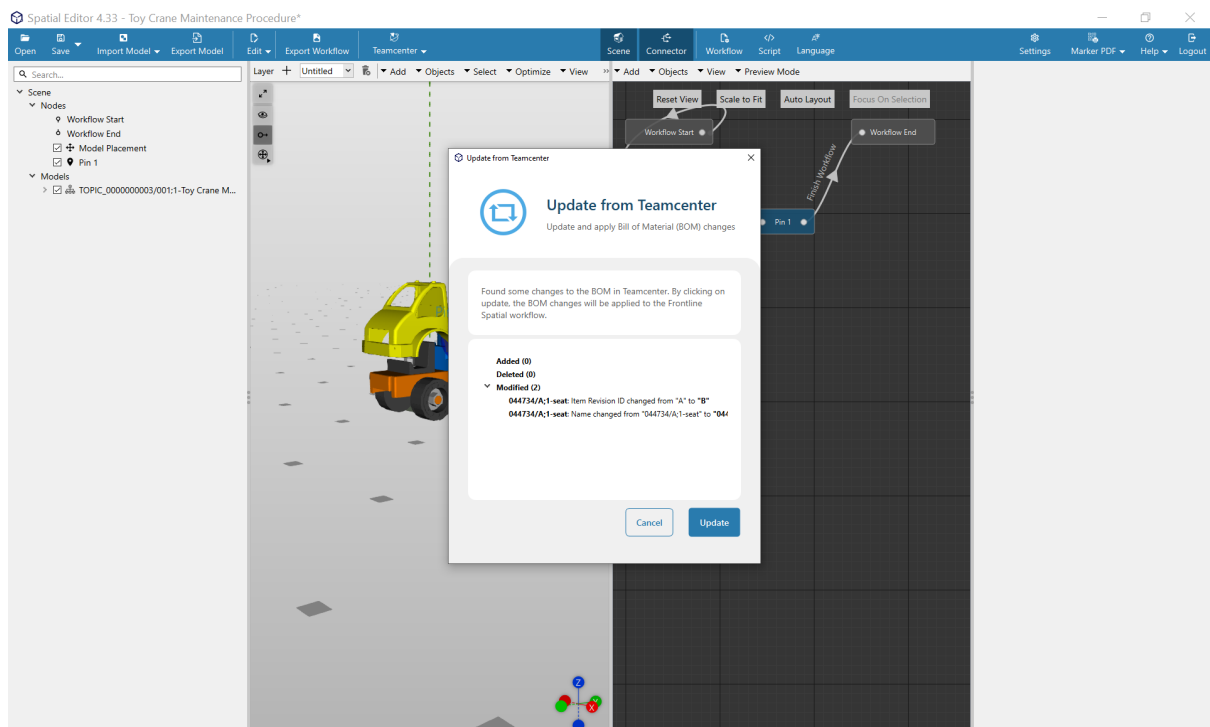
3.2. Updating BOM Changes

If a BOM update occurs after a project has been opened in Spatial Editor, users can:

1. Click “Check for BOM Changes”.



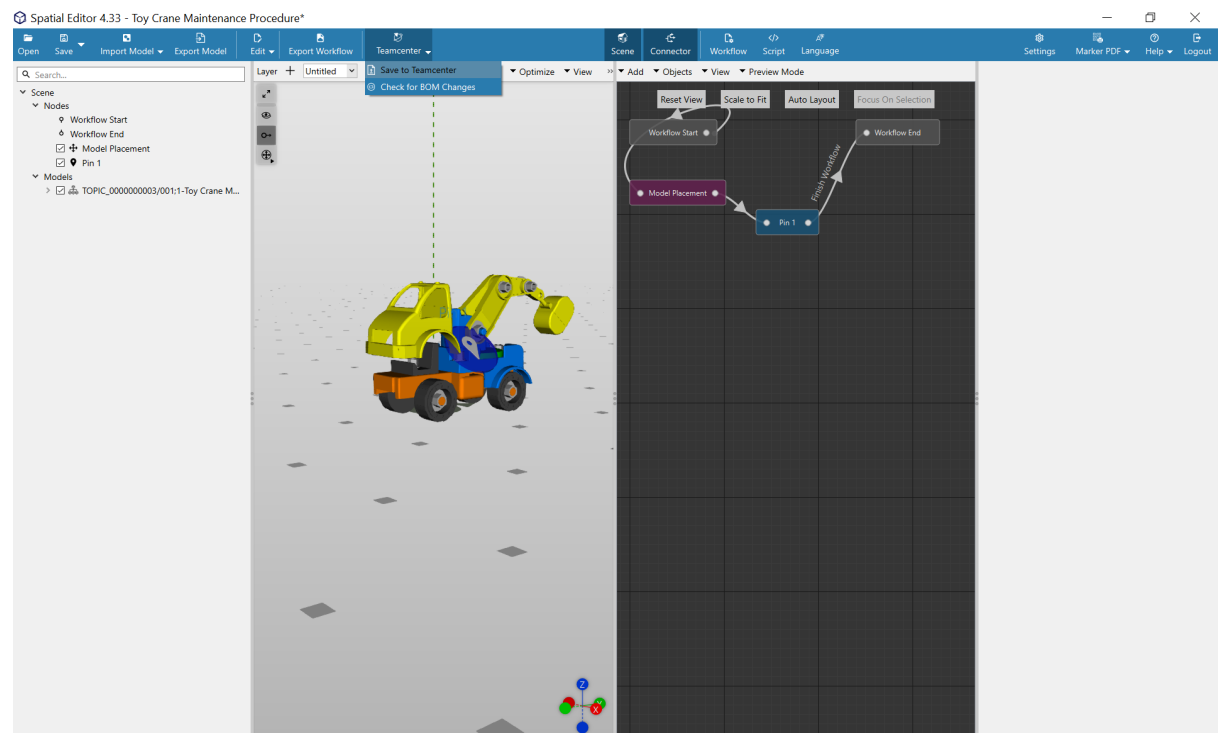
2. Review and accept changes as needed.



4. Saving Projects

4.1. Saving to Teamcenter

1. Select “Save to Teamcenter” under the Teamcenter menu.
2. Follow the “Save to Teamcenter” prompts to complete the process.

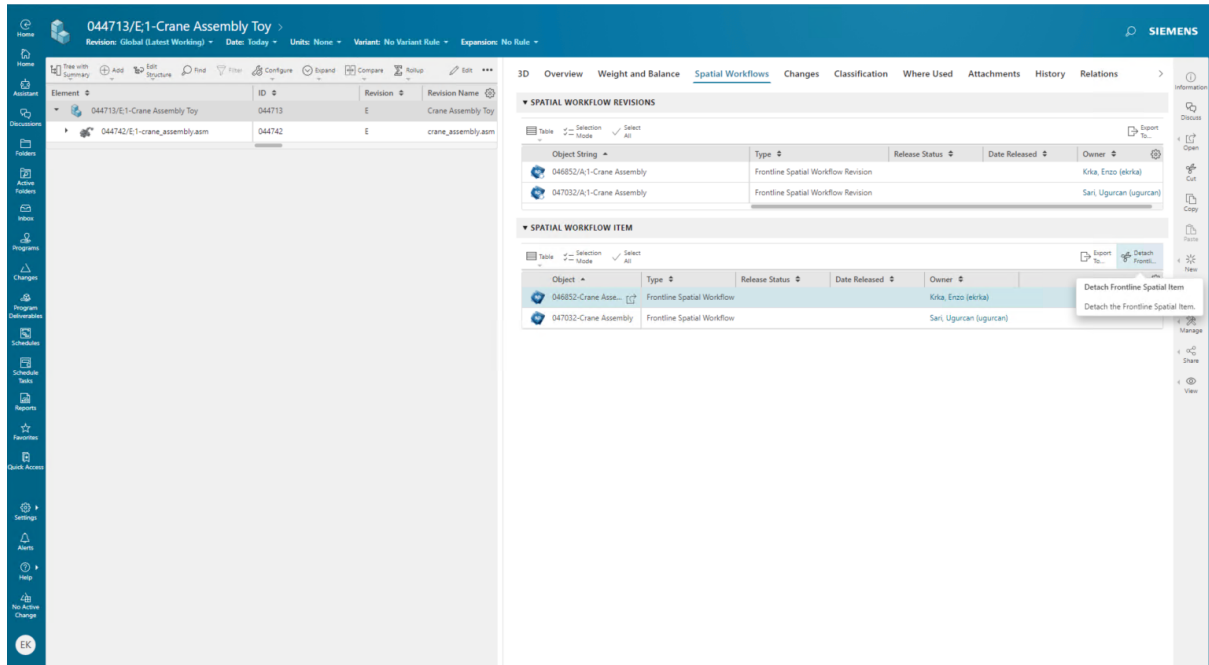


4.2. Saving to Locally

Using the “Save” / “Save As” option to store the project disconnected from Teamcenter locally on your device is possible. When working with Teamcenter, however, we recommend always using the “Save to Teamcenter” option instead.

5. Detaching a Spatial Workflow Project

The Detach button, located in the top-right corner of the Spatial Workflow Item table in Teamcenter, allows users to remove a selected version of a Spatial Workflow Project from the associated item completely.



Once detached, the project is no longer linked to the Teamcenter BOM, and this action affects only the selected workflow revision.

Note

If a project was open in Spatial Editor before being detached, saving it back to Teamcenter updates the project to Teamcenter, but the project will not be visible on the BOM since it was detached (the relation was deleted).

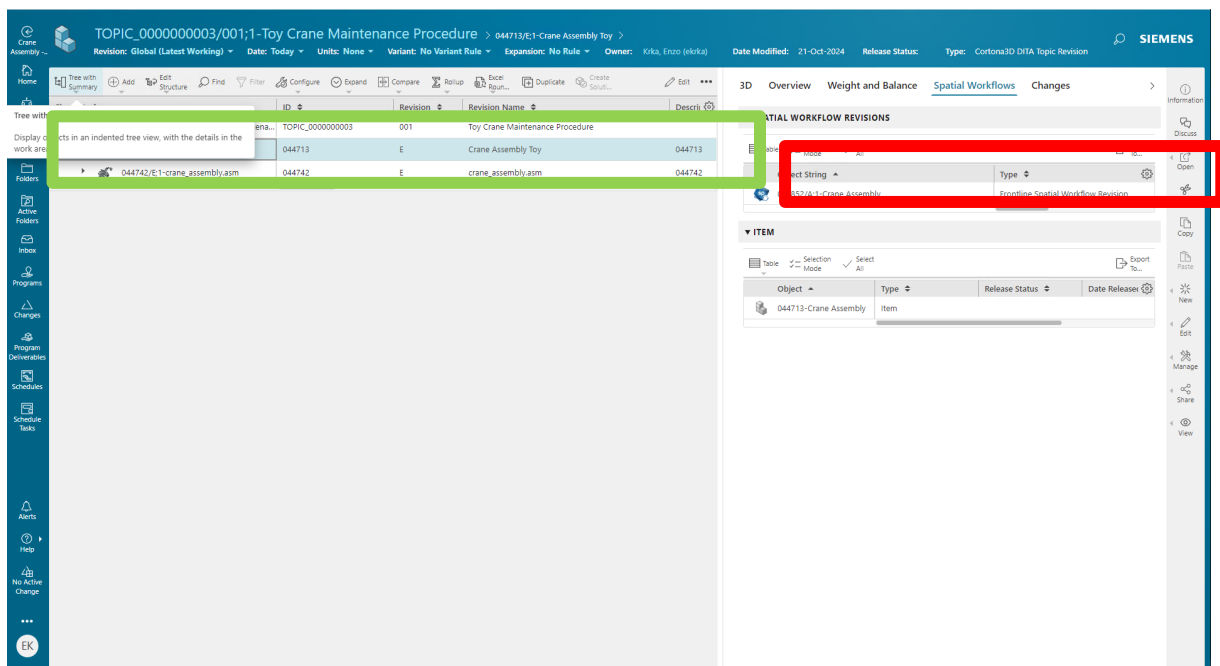
6. Troubleshooting

Problem: The option "Open in Frontline Spatial" is missing

Solution: Make sure you have an Item Revision opened. Try clearing your browser cache. If this does not help, inform your TC administrator.

Problem: I select a Spatial Item and try to "Open in Frontline Spatial," but it does not work.

Solution: "Open in Frontline Spatial" only works on **BOM Items** (highlighted in green in the image below). Objects with type **Spatial Workflow revision** (highlighted in red in the image below) should not be selected when using the open in Spatial Editor button (they will automatically be opened when selecting the BOM node).



Problem: The Spatial Editor shows errors while trying to download the models (JT files) from Teamcenter.

Solution: This issue is related to the Teamcenter ticket encoding configuration and must be handled by an administrator. Up to Teamcenter version 2312, ticket encoding was required. Starting with Teamcenter version 2406, the behavior changed. The administrator should verify the Teamcenter version in use and set the ticket encoding accordingly.

For Teamcenter 2312 or earlier: Set ticket encoding to disabled false.

For Teamcenter 2406 or later: Set ticket encoding to enabled true.

The setting can be adjusted by editing the following registry key:

HKEY_CURRENT_USER\SOFTWARE\TeamViewer Frontline\Spatial Editor\Teamcenter

Modify the value of the key named encodeTickets to match the required configuration. After updating the registry, restart the Spatial Editor to apply the change.

