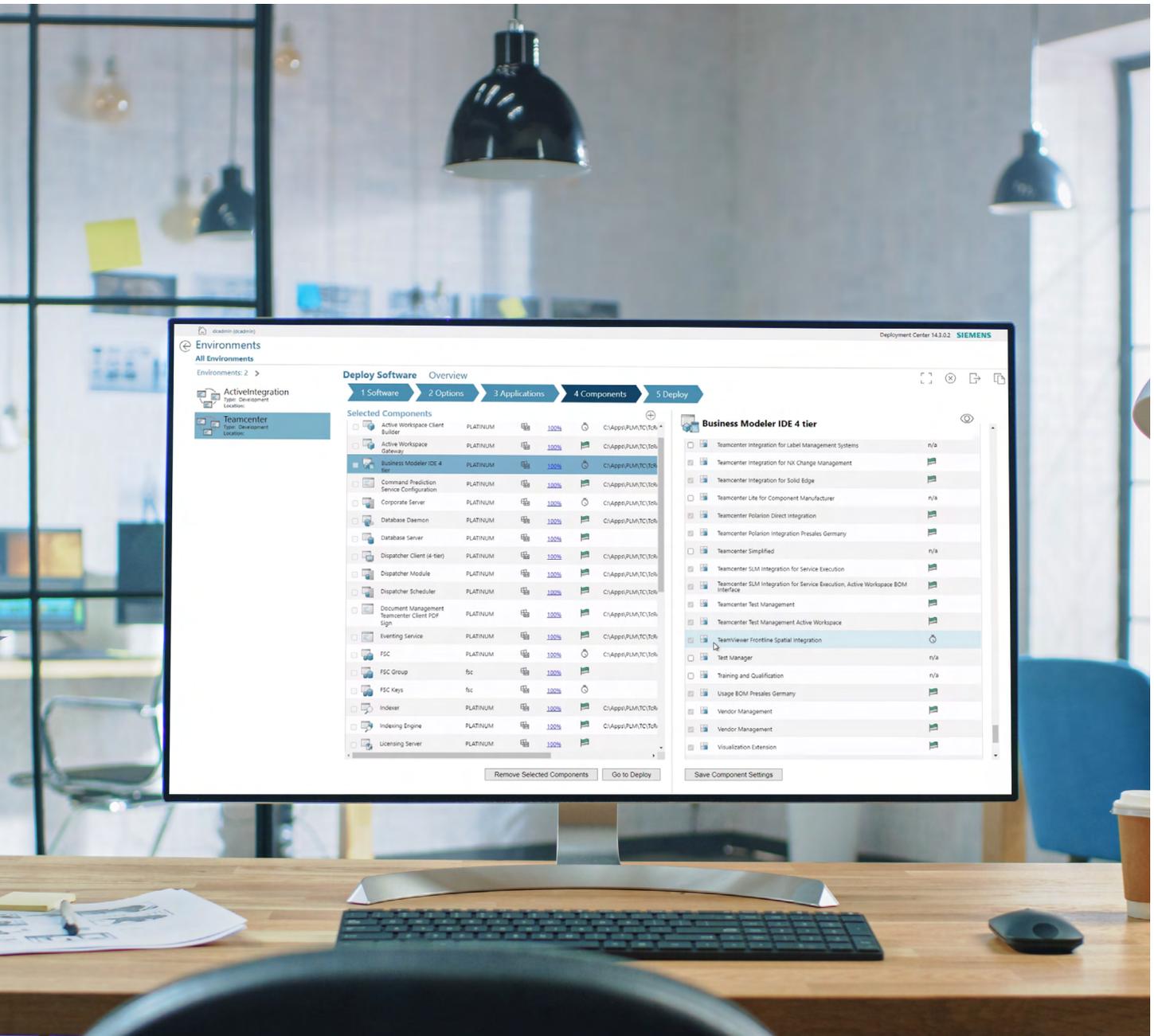


# Installation manual Frontline Spatial | Teamcenter

TeamViewer Frontline Spatial BOM integration





# Contents

<b>01</b>	<b>Prepare the installation</b>	<b>3</b>
<b>02</b>	<b>Install the BOM integration module</b>	<b>10</b>
<b>03</b>	<b>Configure the Teamcenter preferences for Frontline Spatial</b>	<b>12</b>
<b>04</b>	<b>Troubleshooting</b>	<b>13</b>
	<b>4.1</b> Troubleshooting SOA and FMS URI Preferences	13
	<b>4.2</b> Enabling the “Frontline Spatial” tab for Active Workspace	14

# 01 Prepare the installation

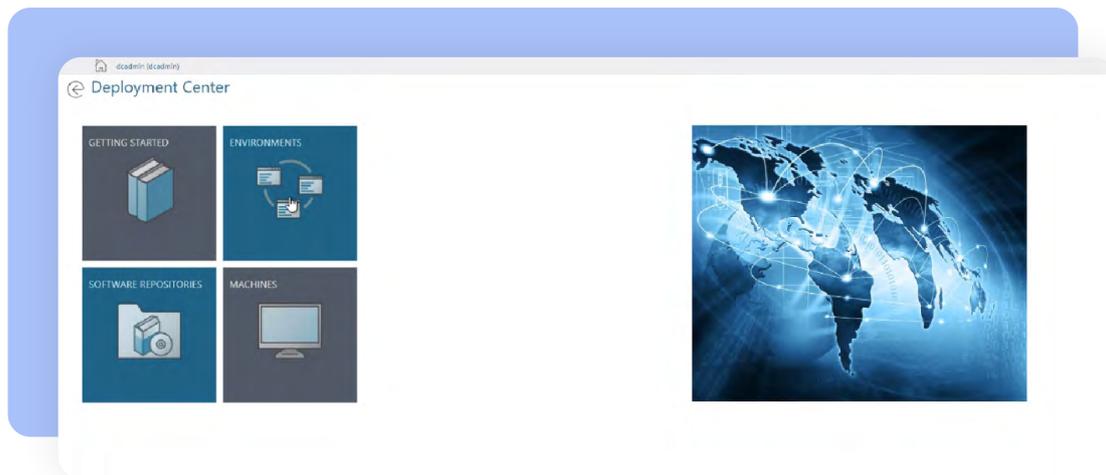
The TeamViewer Frontline Spatial BOM integration is deployed to your Teamcenter installation using a script you generate with Teamcenter's Deployment Center. You can download a zip file containing everything you need from the [Siemens Support Center](#). This requires a valid license.

Alternatively, the package downloaded from the Siemens Support Center can also be used to install the module with Teamcenter Environment Manager (TEM).

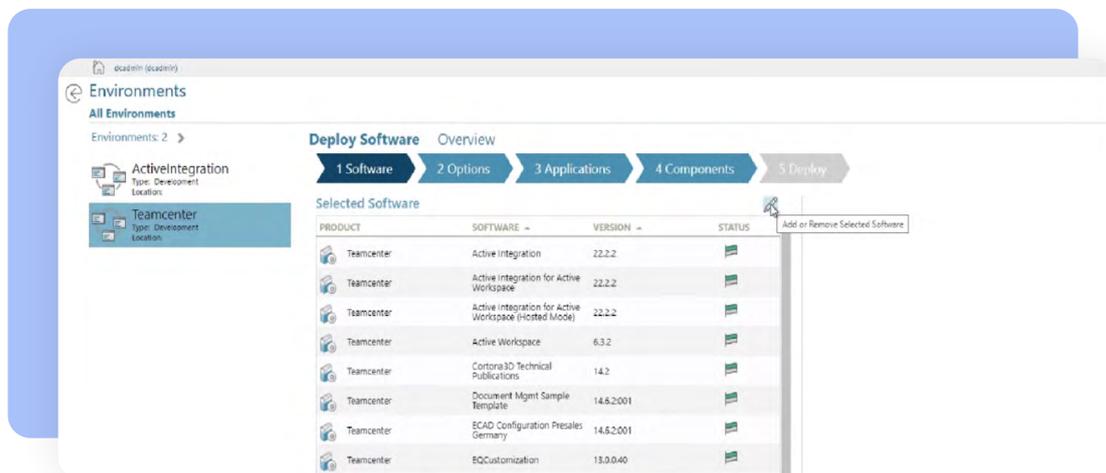
Now, we will be looking into how to continue with the Deployment Center.

**Follow the steps below to generate your deployment package:**

## 1 Open the **Deployment Center**.

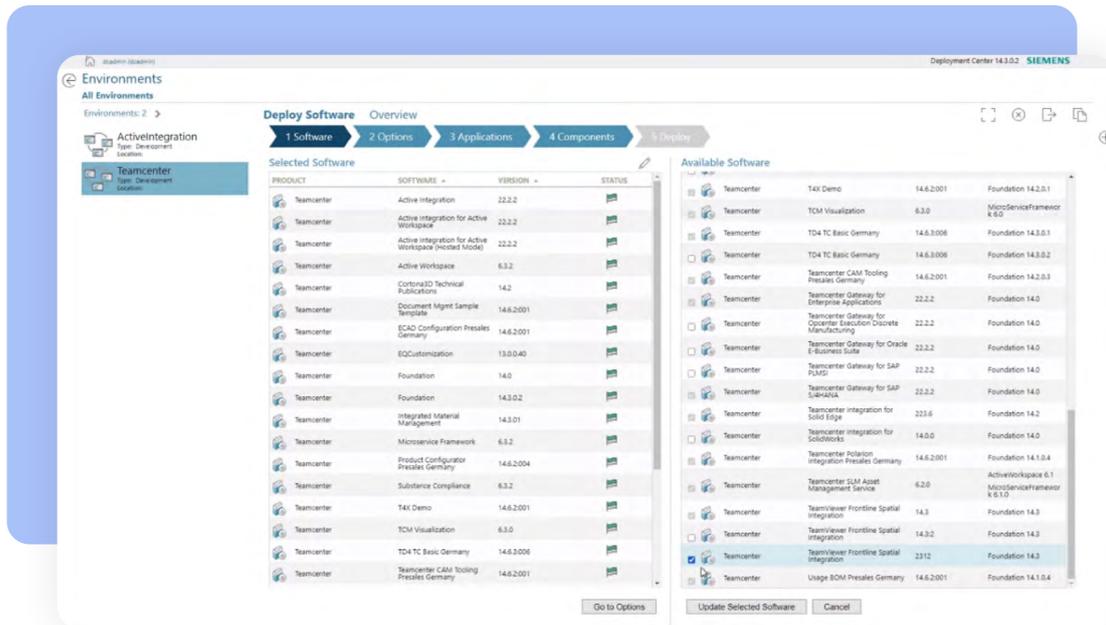


## 2 Edit the selected software.



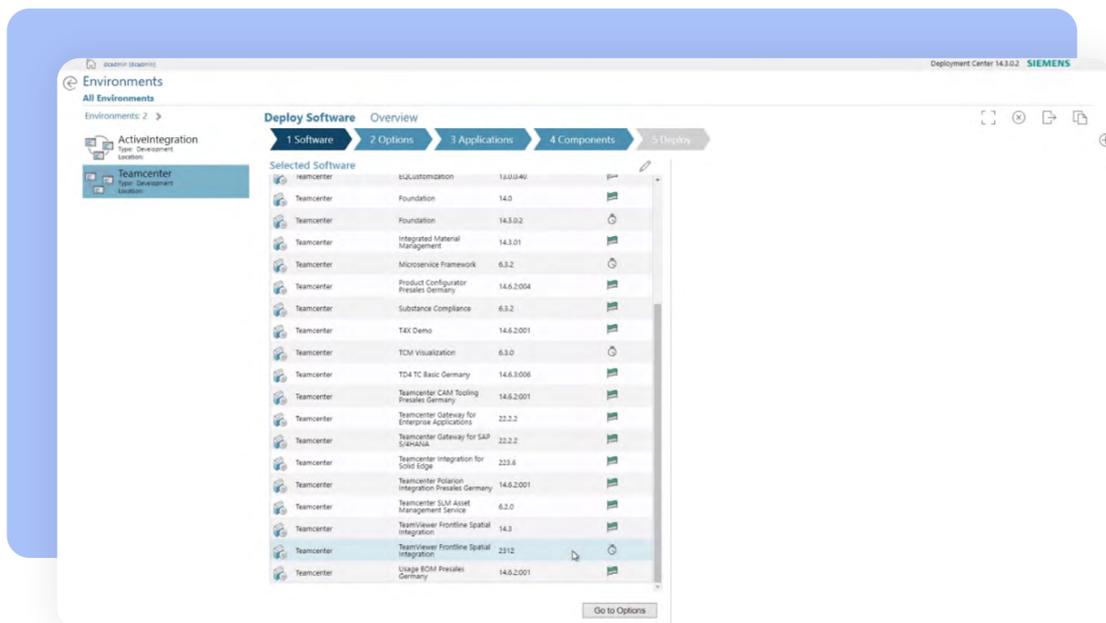
3

Add the **TeamViewer Frontline Spatial Integration** module.



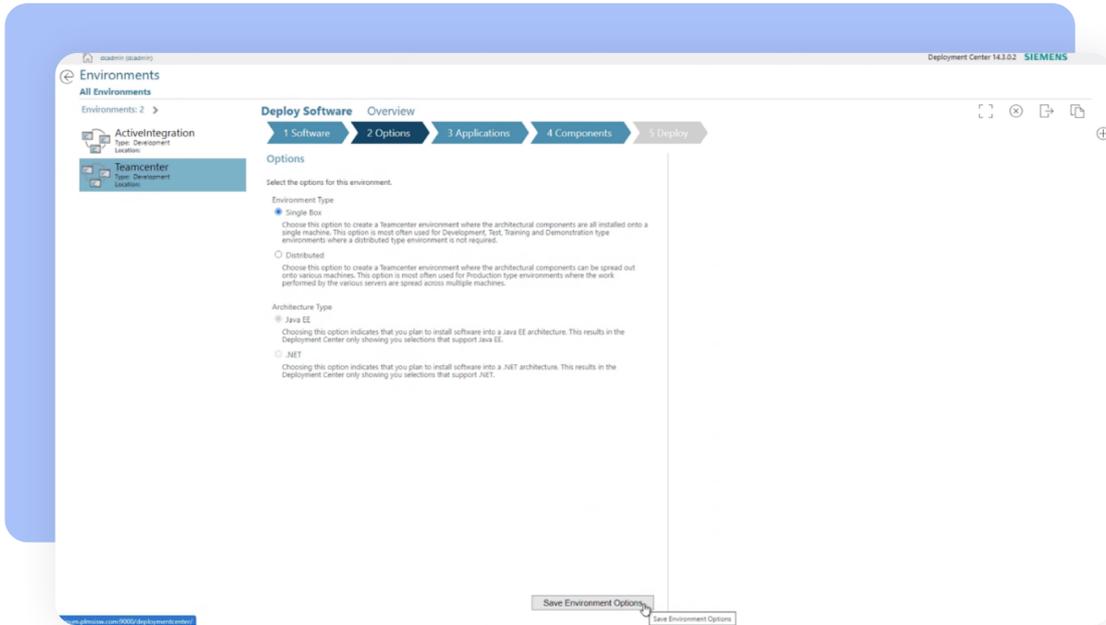
4

Confirm that the “TeamViewer Frontline Spatial Integration” is in your selected software list.



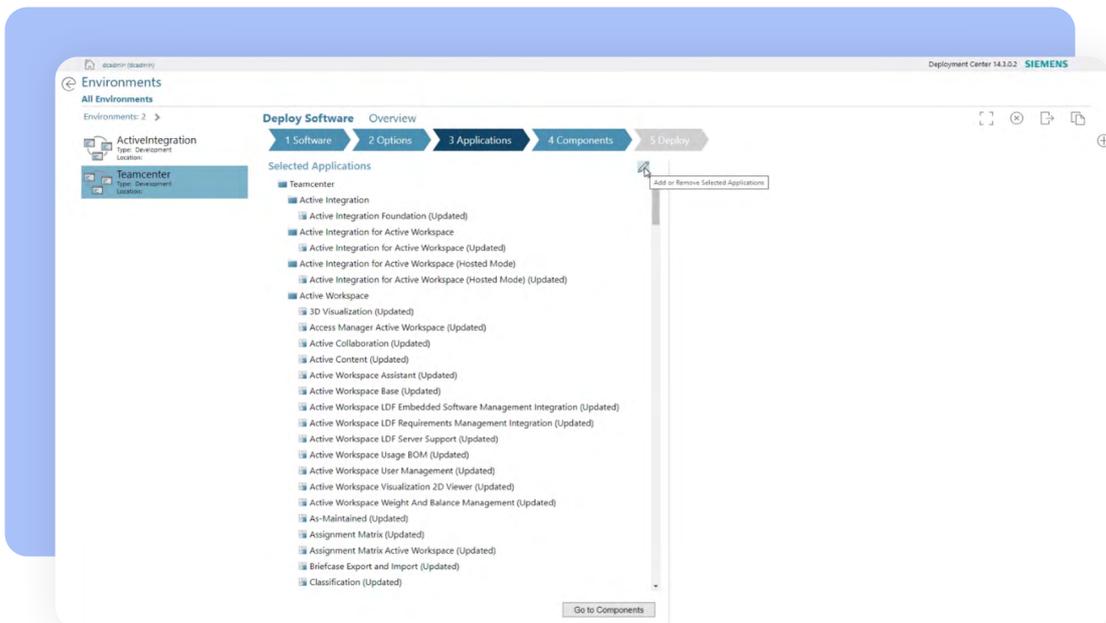
5

Select the correct environment options and save them.

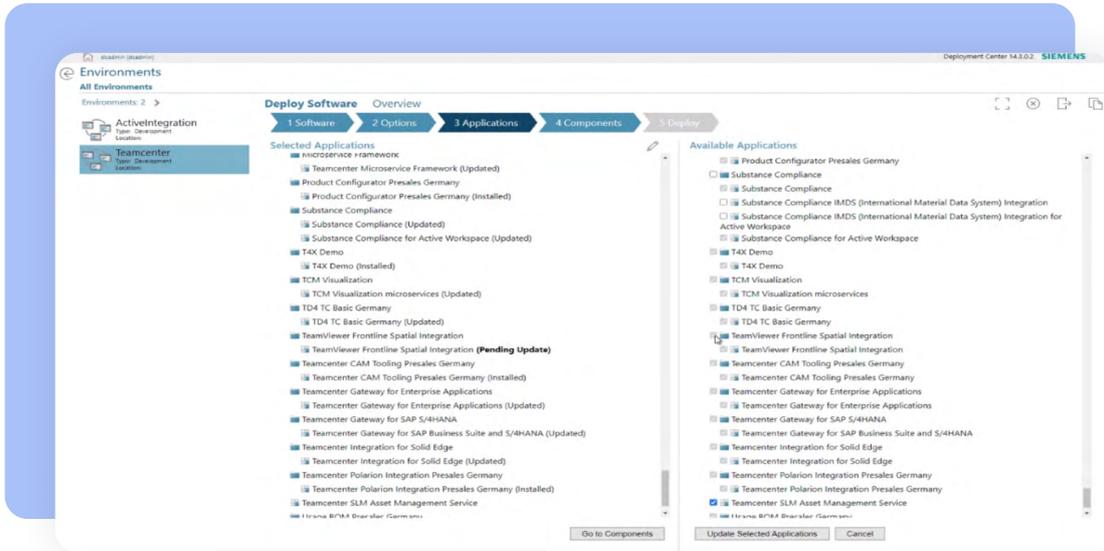


6

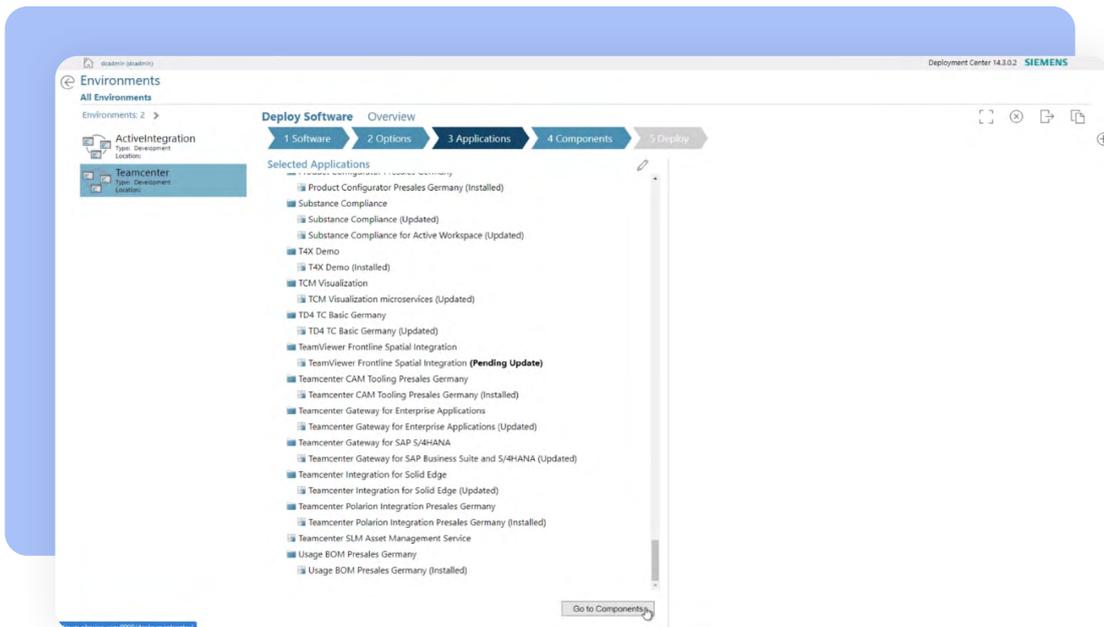
Edit the selected applications.



## 7

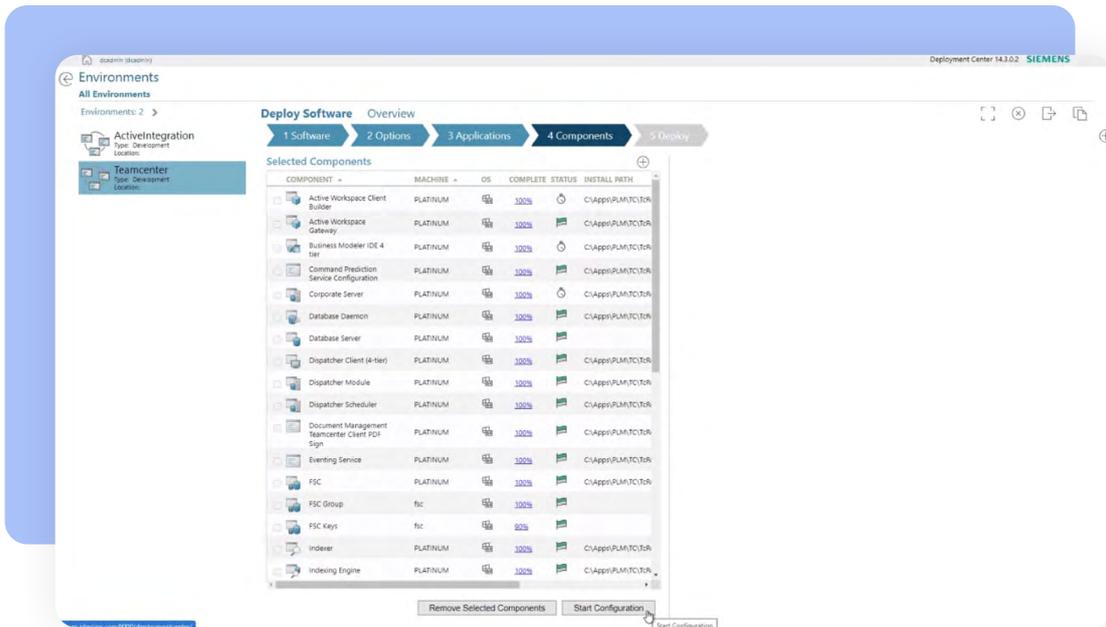
Add **TeamViewer Frontline Spatial Integration**.

## 8

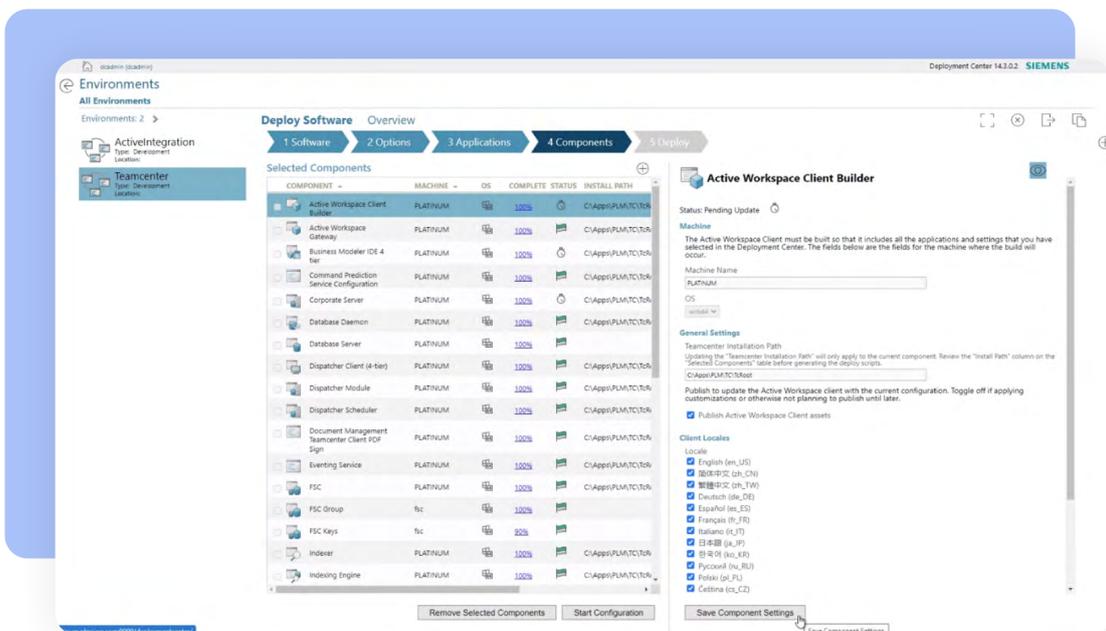
Confirm that **TeamViewer Frontline Spatial Integration** is on your selected application list.

9

Start the components configuration.

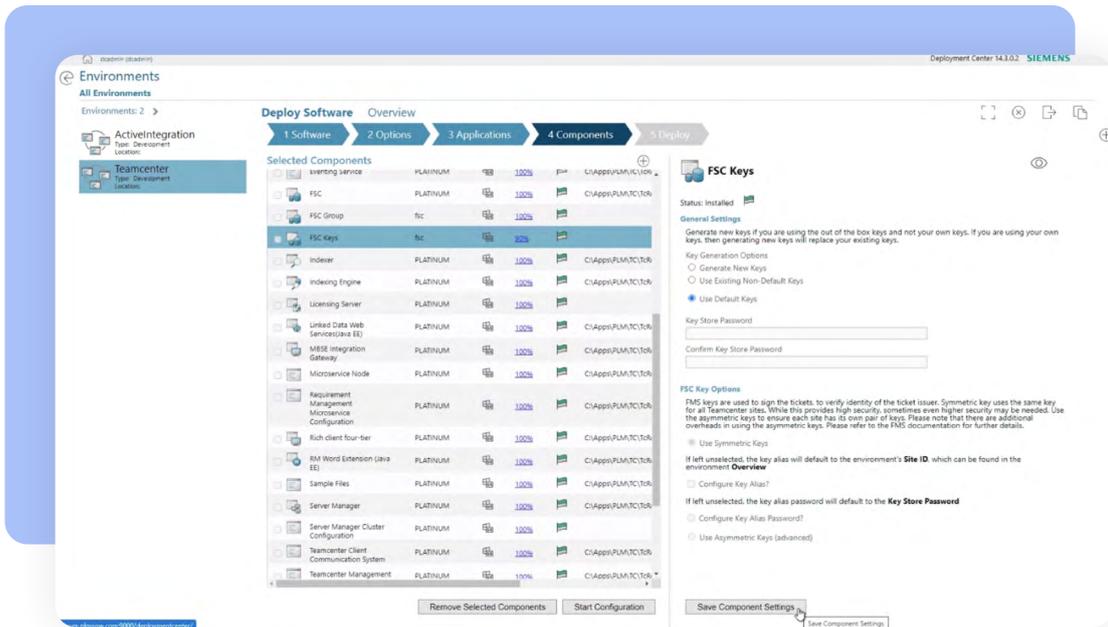


10

Configure the **Active Workspace Client Builder**.

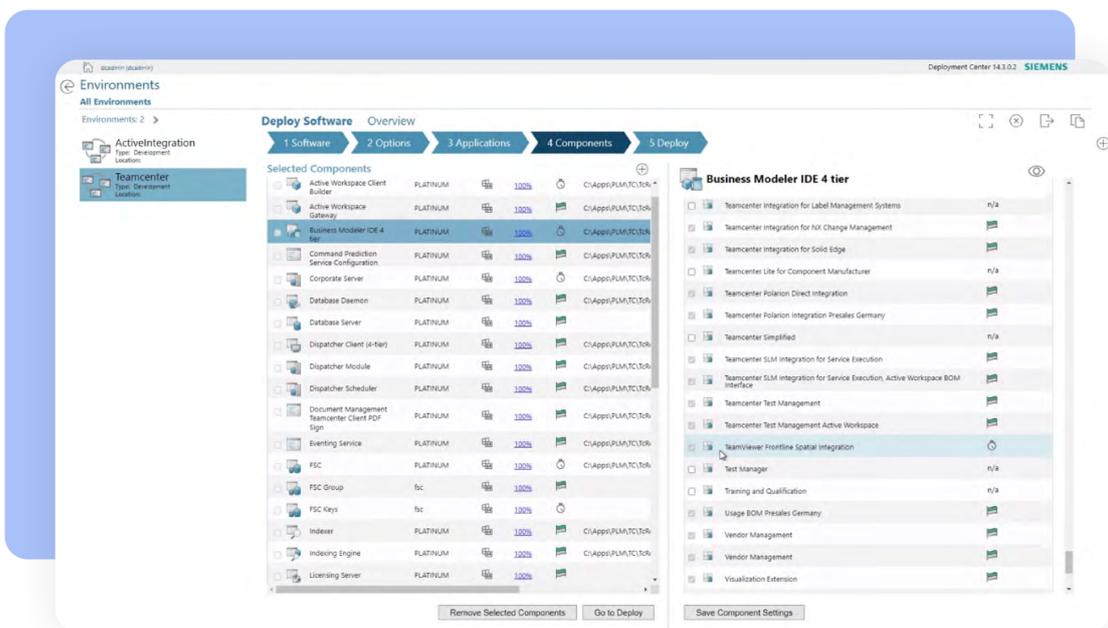
# 11

## Configure the FSC Keys.



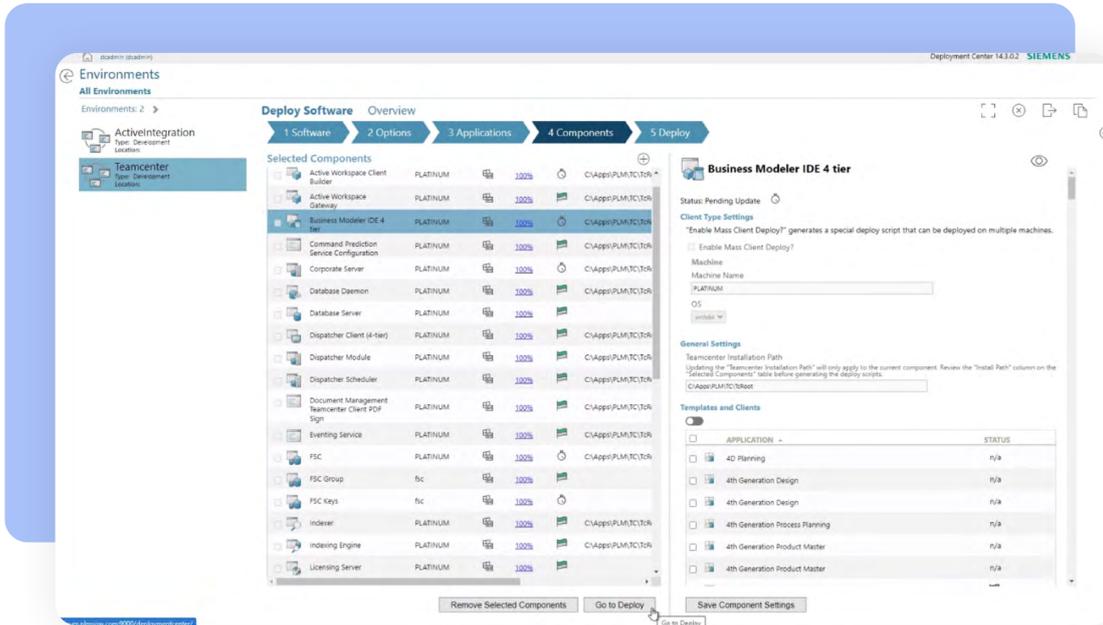
# 12

## Configure the Business Modeler IDE and confirm the presence of the TeamViewer Frontline Spatial Integration.



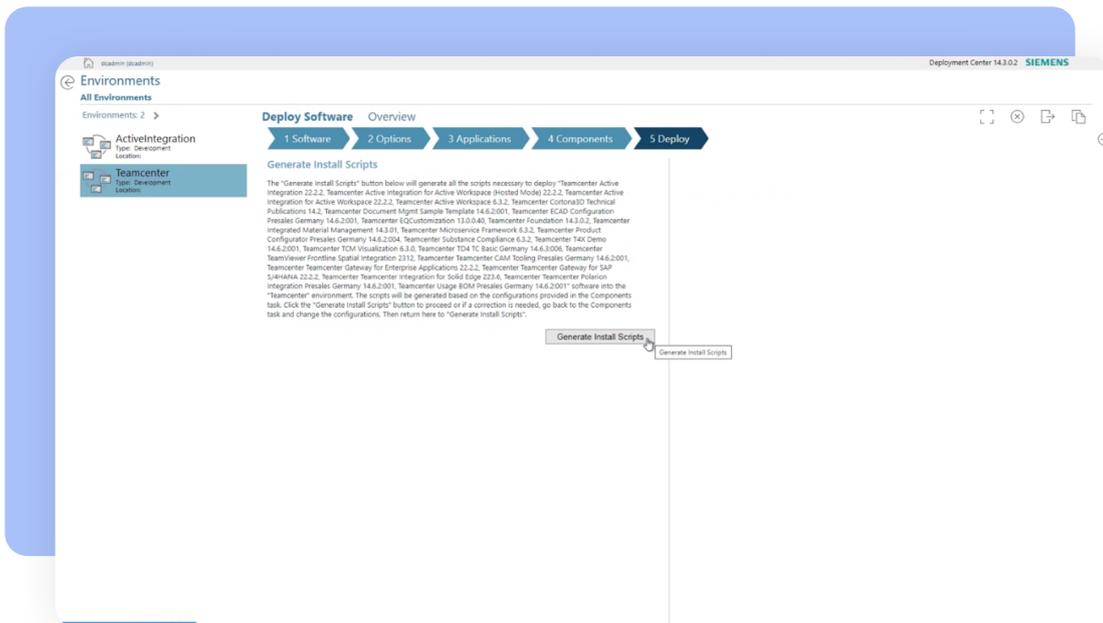
13

Continue with the **Deploy** screen.



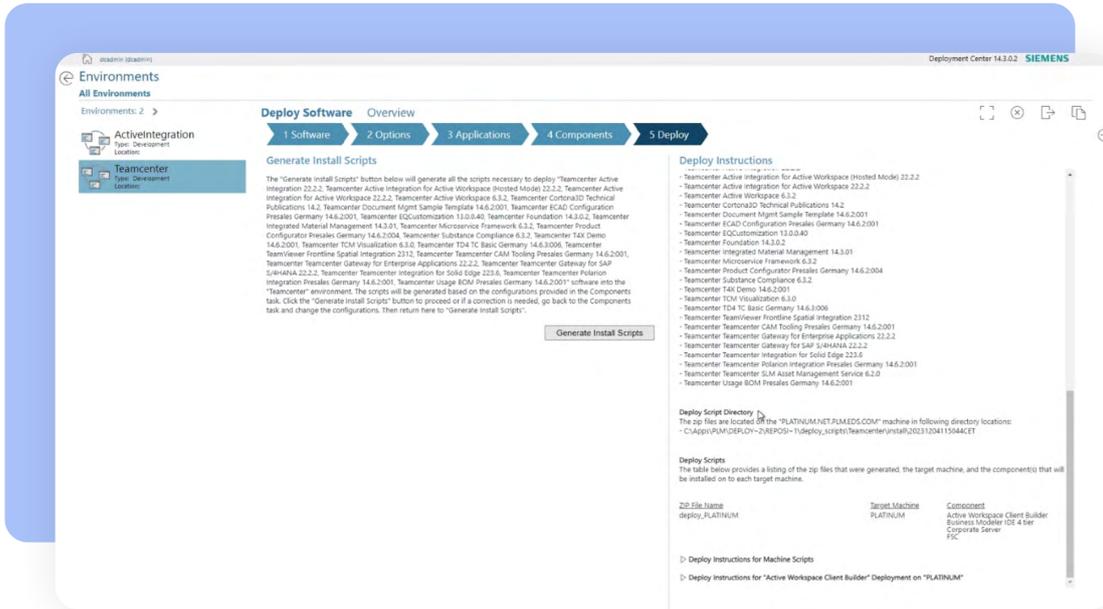
14

Generate the install scripts.



# 15

## Confirm the location of the deploy script.

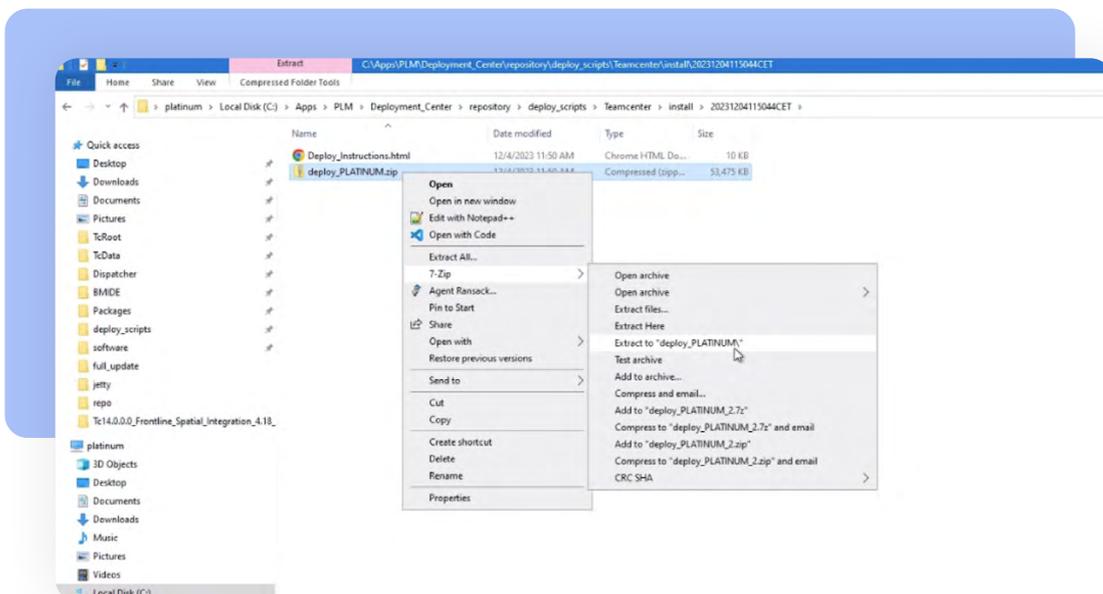


## 02 Install the BOM integration module

Install the module by running the deployment script:

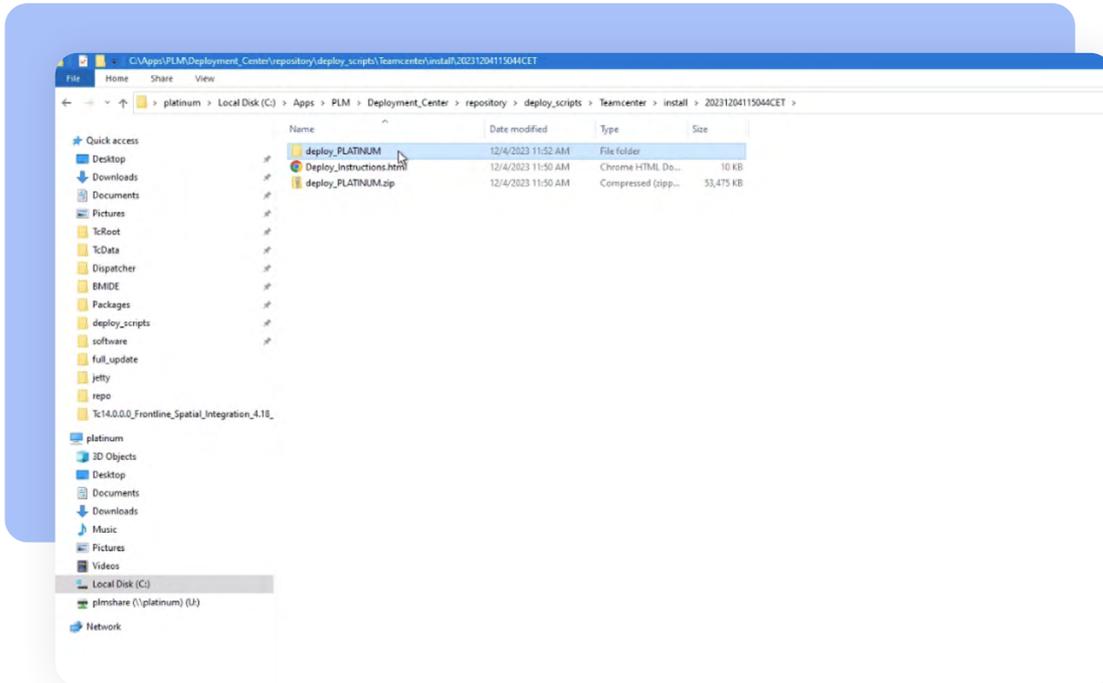
### 1

Extract the **Deployment Package**.



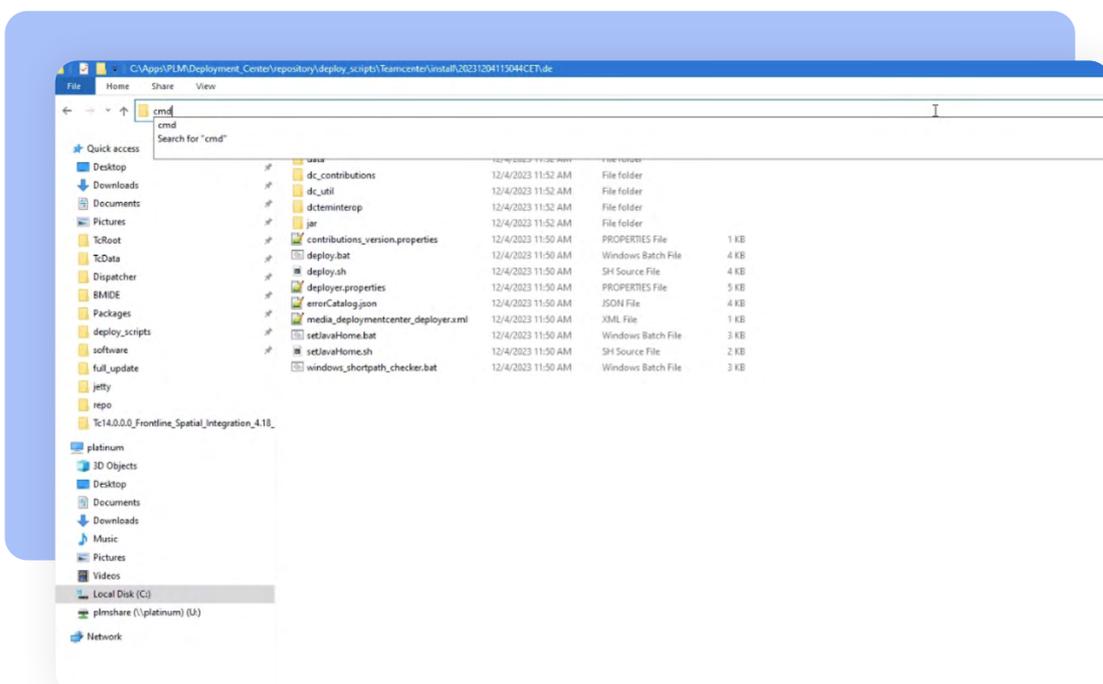
2

Go to the deployment package folder.



3

Open a command prompt at the location of the deployment package.



4

Run the deployment script with the necessary parameters (-dcusername, -dcpassword, -softwareLocation).

```

C:\Windows\System32\cmd.exe
C:\Apps\PLM\Deployment_Center\Repository\deploy_scripts\Teamcenter\Install\3281228411584431\deploy_PLAT2BRU\deploy.bat -dcusername-dcadmin -dcpassword-dcadmin -softwareLocation="C:\Apps\PLM\Deployment_Center\Repository\Software"
  
```

## 03 Configure the 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: <https://server-hostname/tc>

### 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 TeamViewer\_Teamcenter\_SOA\_Url and TeamViewer\_Teamcenter\_SOA\_Proxy\_Url.  
Example of the preference value: <https://forward-proxy-url/tc>

### 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: <https://server-hostname/fmsRest/v1/files>

### 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” added at the end (unless that is mapped to another path in your environment).
- Spatial Editor will try accessing both TeamViewer\_Teamcenter\_Fms\_Url and TeamViewer\_Teamcenter\_Fms\_Proxy\_Url.
- Example of the preference value: <https://forward-proxy-url/fmsRest/v1/files>

# 04 Troubleshooting

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:

## 4.1 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 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 have also configured this URL in the EasyPlan server.xml or in your RAC under Organization -> Sites -> SOA URL so that you might look those up as a reference.
- **Ensure that the FMS URL is configured correctly:**  
If your 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.

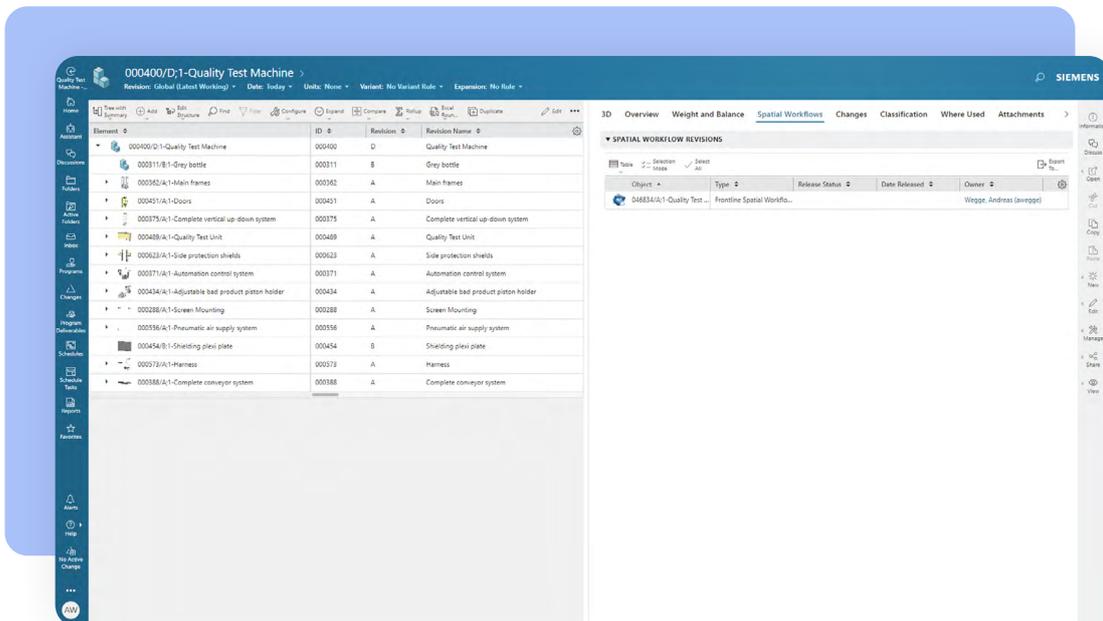
## 4.2 Enabling the “Frontline Spatial” tab for Active Workspace

1

After deploying the module, a “Frontline Spatial” tab should be added in the Active Workspace. Should this not be the case, you can manually enable this tab, which will allow you to review your uploaded Frontline Spatial Workflow revisions. You will need to modify a stylesheet in the XRT Editor. You can either replace an otherwise unedited stylesheet completely or add the relevant part to the stylesheet if it is already customized. To do this, please insert the following XML excerpt after the “tc\_xrt\_Overview” page element. Please visit [Customizing Active Workspace - Modifying style sheets using the XRT Editor \(siemens.com\)](#) in the Siemens Support Center for general instructions.

2

View the **Spatial Workflows** tab.



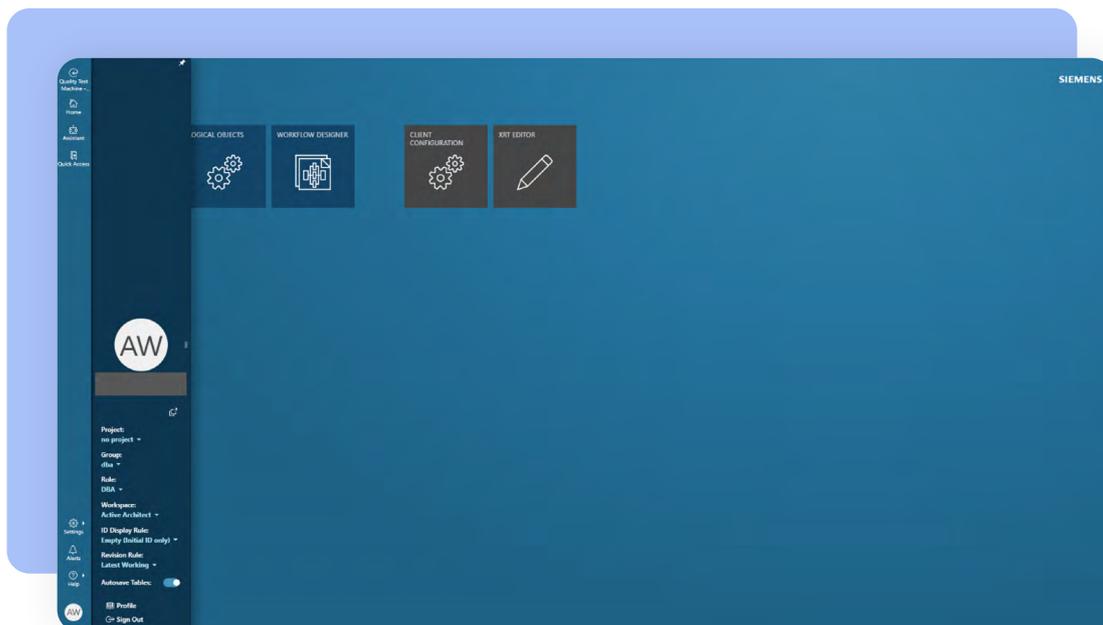
3

Here is the XML Snippet for the Spatial Workflow Tab.

```
<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>
```

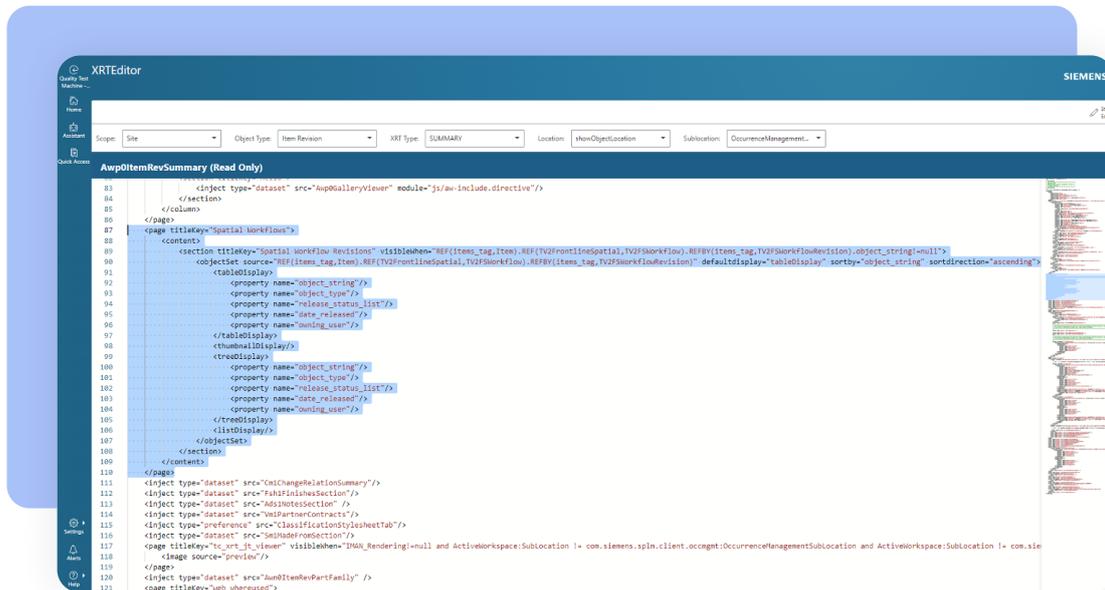
4

Open the XRT Editor as an administrative user.



5

Navigate to the **Item Revision BOM** view in the tab from which you opened the XRT Editor. The XRT Editor will open the corresponding stylesheet. Insert the XML snippet there.



## About TeamViewer

TeamViewer provides a Digital Workplace platform that connects people with technology – enabling, improving and automating digital processes to make work work better. In 2005, TeamViewer started with software to connect to computers from anywhere to eliminate travel and enhance productivity. It rapidly became the de facto standard for remote access and support and the preferred solution for hundreds of millions of users across the world to help others with IT issues. Today, more than 640,000 customers across industries rely on TeamViewer to optimize their digital workplaces - from small to medium sized businesses to the world's largest enterprises - empowering both desk-based employees and frontline workers. Organizations use TeamViewer's solutions to prevent and resolve disruptions with digital endpoints of any kind, securely manage complex IT and industrial device landscapes, and enhance processes with augmented reality powered workflows and assistance - leveraging AI and integrating seamlessly with leading tech partners. Against the backdrop of global digital transformation and challenges like shortage of skilled labor, hybrid working, accelerated data analysis and the rise of new technologies, TeamViewer's solutions offer a clear value add by increasing productivity, reducing machine downtime, speeding up talent onboarding, and improving customer and employee satisfaction. The company is headquartered in Göppingen, Germany, and employs more than 1,800 people globally. In 2024, TeamViewer achieved a revenue of around EUR 671 million. TeamViewer SE (TMV) is listed at Frankfurt Stock Exchange and belongs to the MDAX. Further information can be found at [www.teamviewer.com](http://www.teamviewer.com).

## Stay connected

[www.teamviewer.com](http://www.teamviewer.com)

Copyright © 2025 TeamViewer Germany GmbH and TeamViewer US. All rights reserved.