## Installation manual **Frontline Spatial | Teamcenter**

**TeamViewer Frontline Spatial BOM integration** 





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## **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:



Active Integration for Active 22.2.2 Workspace 22.2.2

Active Integration for Active Workspace (Hosted Mode) 22.2.2

Document Mgmt Sample 14.6.2001

ECAD Configuration Presales 14.6.2001

EQCustomization 13.0.0.40

6.3.2

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Active Workspace

Cortona3D Technical Publications

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

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Environments: 2 >	Deploy Software	Overview							[] ( B
ActiveIntegration	1 Software 2	Options 3 Applica	tions 💙 4 Con	ponents 5	Deploy				
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	Teamcenter	Active integration	22.2.2	-	08	Teamcenter	TCM Visualization	63.0	MicroServiceFramewor k 6.0
	Teamcenter	Workspace	22.2.2	-	- 2	Teamcenter	TD4 TC Basic Germany	14.6.3:006	Foundation 14.3.0.1
	Feamcenter	Active integration for Active Workspace (Hosted Mode)	22.2.2	1		Teamcenter	TD4 TC Basic Germany	14.6.3:005	Foundation 14.3.0.2
	Teamcenter	Active Workspace	6.3.2	-	- 12	Teamcenter	Teamcenter CAM Tooling	14.6.2001	Foundation 14 2 0 1
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	S. Teamcenter	Foundation	143.02			Teamcenter	Teamcenter Gateway for SAP S/4HANA	22.2.2	Foundation 14.0
	C tomation	Integrated Material			- 6	Teamcenter	Teamcenter Integration for Solid Edge	223.6	Foundation 14.2
	C seancemen	Maragement	14301		08	Teamcenter	Teamcenter integration for ColidMorks	14.0.0	Foundation 14.0
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	Teamcenter	Presales Germany	14.6.2004	-	1.49		Integration Presales Germany		ActiveWorkspace 6.1
	Feamcenter	Substance Compliance	6.3.2	-	11 Kg	Teamcenter	Management Service	6.2.0	MicroServiceFramewor k 6.1.0
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	Teamcenter	TCM Visualization	6.3.0	=	08	Teamcenter	TeamViewer Frontline Spatial Integration	14.3:2	Foundation 14.3
	C Teamcenter	TD4 TC Basic Germany	14.6.3:006	19	-	Teamcenter	TeamViewer Frontline Spatial	2312	Foundation 14.3
	Teamcenter	Teamoenter CAM Tooling	1462001	-	De		Urana BOM Descalar Germany	146.2001	Equadation 14104

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

acadmin (dcadmin)					Deployment Center 143.0.2 SIEMENS
@ Environments					
All Environments					
Environments: 2 >	Deploy Software	Overview	-		
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	Teamcenter	Microservice Framework	6.3.2	0	
	Teamcenter	Product Configurator Presales Germany	14.6.2004	=	
	Teamcenter	Substance Compliance	63.2	-	
	Teamcenter	T4X Demo	14.6.2.001	=	
	Teamcenter	TCM Visualization	63.0	0	
	Teamcenter	TD4 TC Basic Germany	14.6.3:006	-	
	Teamcenter	Teamcenter CAM Tooling Presales Germany	14.6.2:001	=	
	Teamcenter	Teamcenter Gateway for Enterprise Applications	22.2.2	-	
	Teamcenter	Teamcenter Gateway for SAP S/4HANA	22.2.2	-	
	Teamcenter	Teamcenter Integration for Solid Edge	223.6	-	
	Teamcenter	Teamcenter Polarion Integration Presales Germany	14.6.2.001	-	
	Teamcenter	Teamcenter SLM Asset Management Service	620	-	
	Teamcenter	TeamViewer Frontline Spatial	14.3	-	
	Teamcenter	TeamViewer Frontline Spatial	2312	NO	
	Teamcenter	Usage BOM Presales Germany	14.6.2001	=	
	Teamcenter	Usage BOM Presales Germany	14.6.2001		

## Select the correct environment options and save them.



## 6 Edit the selected applications.

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All Environments		
Environments: 2 >	Deploy Software Overview	[] 🛛 🗗
	1 Software 2 Options 3 Applications 4 Components 5 Deploy	
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C Location:	Active Integration	
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	Active Integration for Active Workspace	
	Active Integration for Active Workspace (Updated)	
	Active Integration for Active Workspace (Hosted Mode)	
	Active Integration for Active Workspace (Hosted Mode) (Updated)	
	Active Workspace	
	3D Visualization (Updated)	
	Access Manager Active Workspace (Updated)	
	Active Collaboration (Updated)	
	Active Content (Updated)	
	Active Workspace Assistant (Updated)	
	Active Workspace Base (Updated)	
	Active Workspace LDF Embedded Software Management Integration (Updated)	
	Active Workspace LDF Requirements Management Integration (Updated)	
	Active Workspace LDF Server Support (Updated)	
	Active Workspace Usage BOM (Updated)	
	📓 Active Workspace User Management (Updated)	
	Active Workspace Visualization 2D Viewer (Updated)	
	Active Workspace Weight And Balance Management (Updated)	
	As-Maintained (Updated)	
	Assignment Matrix (Updated)	
	Straight Assignment Matrix Active Workspace (Updated)	
	Briefcase Export and Import (Updated)	
	Classification (Updated)	

## Add TeamViewer Frontline Spatial Integration.

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



## Start the components configuration.

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dcadmin (dcadmin)		Deployment Center 143.02 SIEMENS
All Environments		
Environments: 2 >	Deploy Software Overview	: ) (× L
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	Active Workspace PLATINUM 1022 CVApps/PLM/TC/TcR Gateway	
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	Indexing Engine PLATINUM 🖓 100% 🛤 CVApps/PLMITCITCR	
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## **10** Configure the **Active Workspace Client Builder.**

C) ocadevie (dcadevie)			Deployment Center 14.3.0.2 SIEM
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ActiveIntegration	1 Software 2 Options 3 Applications	4 Components 5 Deploy	
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LL_ COLOUR	Active Workspace Client PLATINUM B	10% C1Apps1PLMITCITOR Status: Pending Update	
	Active Workspace PLATINUM	C:\Apps\PLM\TC\TcR/ Machine	
	Business Modeler IDE 4 PLATINUM	CO25 C:\Apps\PLM\TC\TCR: CCU	be built so that it includes all the applications and settings that you have x. The fields below are the fields for the machine where the build will 
	Command Prediction PLATINUM	CLAPPS/PLM,TC\TcR/ Machine Name	
	Corporate Server PLATINUM	COMPANY CLARON PLANTCUTCR	
		videre V	
	Database Laemon PLATINUM 48	General Settings	
	Database Server PLATINUM	.00% Teamcenter Installation Path Updating the "Teamcenter Installation i	Path' will only apply to the current component. Review the "Install Path' column on th
	Dispatcher Client (4-tier) PLATINUM	C:\Apps\PLM\TC\TcR	nerating the deploy scripts.
	Dispatcher Module PLATINUM	025 C:\Apps\PLM\TC\TcRi Publish to update the Active Worl	space client with the current configuration. Toggle off if applying
	Dispatcher Scheduler PLATINUM	100% C:\Apps\PLM\TC\TCR Publish Active Workspace Clie	ranning to publish unbilitater.
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## **11** Configure the **FSC Keys.**

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Internation (Size       PLATNUAL       Image: Size       Image: Chapspillum/Chapse       Milling Size       Image: Size <td< td=""><td></td><td>Rich client four-tier</td><td>PLATINUM</td><td>腦</td><td>100%</td><td>P ci</td><td>Apps\PLM\TC\TcR</td><td>Use Symmetric Keys</td></td<>		Rich client four-tier	PLATINUM	腦	100%	P ci	Apps\PLM\TC\TcR	Use Symmetric Keys
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**12** Configure the **Business Modeler IDE** and confirm the presence of the TeamViewer Frontline Spatial Integration.

cadmin (dcadmin)							Deployment	Center 14.3.0.2	SIEM	é
C Environments										
Environments: 2 >	Deploy Software Overv	iew						r 7 6	a L	
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tand treatings	Active Workspace	PLATINUM	围	100%	=	C:\Apps\PLM\TC\TcR	Teamcenter Integration for Label Management Systems	n/a		
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	Command Prediction	PLATINUM.	Elia	1000	-	CIACON RIMOTO TOR	Teamcenter Integration for Solid Edge	=		
	Service Configuration	DI ATINI DA	His .	1000		Ci Acess Di La TO Tra	Teamcenter Lite for Component Manufacturer	n/a		
	- Corporate steries	PLATINUM.	-45	19925	-		1 Teamcenter Polarion Direct Integration	-		
	Detsoase Daemon	PLAIINUM	988 eff.	100%	-	C:/ADD3/PEM/IC/IOU	Teamcenter Polarion Integration Presales Germany	12		
	Database server	PLATINUM	98	100%	-		🗋 🔚 Teamcenter Simplified	n/a		
	Dispatcher Client (4-tier)	PLATINUM	49	100%	1	C:\Apps\PLM\TC\Tck	Teamcenter SLM Integration for Service Execution	-		
	Dispatcher Module	PLATINUM	193	100%	-	C:\Apps\PLM\TC\TcR	Teamcenter SLM Integration for Service Execution, Active Workspace BOM			
	Dispatcher Scheduler	PLATINUM	地	100%	-	C:\Apps\PLM\TC\TcR	Teamcenter Test Management			
	Document Management Teamcenter Client PDF	PLATINUM	嘔	100%		C:\Apps\PLM\TC\TcRi	Teamcenter Test Management Active Workspace			
	Eventing Service	PLATINUM	1	100%	=	C:\Apps\PLM\TC\TcR	TeamViewer Frontline Spatial Integration	0		
	er 🖾 HSC	PLATINUM	6	100%	٥	C:\Apps\PLM\TC\TeR		n/a		
	FSC Group	fsc	囁	100%	=		Training and Qualification	n/a		
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## Continue with the **Deploy** screen.

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	Command Prediction Service Configuration	PLATINUM	腦	102%	C:\Apps\PLM\TC\TcR	Enable Mass Client Deploy?	
	Corporate Server	PLATINUM	囁	100%	C:\Apps\PLM\TC\TcR	Machine Machine Name	
	Database Daemon	PLATINUM	腦	1025	C:\Apps\PLM\TC\TcR	PLATINUM	
	Database Server	PLATINUM	6	100%		OS .	
	Dispatcher Client (4-tier)	PLATINUM	-	100%	C:\Apps\PLM\TC\TcR		
	Dispatcher Module	PLATINUM	654	1005	C\Apps\PLM\TC\TcB	General Settings Teamcenter Installation Path	
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	Description School	- Controll	-10	1003	e tebber entretion	C:Appr/PLM/TC/TcRppt	
	Teamcenter Client PDF Sign	PLATINUM	唱	102%	C:\Apps\PLM\TC\TcR	Templates and Clients	
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	- ing thermal series	PERMIT	- 10	1023	. *	ath Generation Product Master	198

Generate the install scripts.





Generate Install Scripts

Deploy Script Directory National Script Script Script Script Script Directory Script Directory Script Scrip

Component Active Workspace Client Builder Business Modeler IDE 4 tier Corporate Server FSC

Deploy Scripts The table below provides a listing of the zip files that he installed as to each based machine.

Deploy Instructions for Machine Scripts > Deploy Instructions for "Active Workspace Clin

ZIP File Name deploy\_PLATINUM

## **02** Install the BOM integration module

Install the module by running the deployment script:



## Go to the deployment package folder.

File Home Share View					
L	Local Disk (C:) > Apps > PLM > Deployment_C	enter > repository > deploy_scripts	> Teamcenter > install > 20231204115044C	CET >	
the Onlick access	Name	Date modified	Type Size		
Decision	deploy_PLATINUM	12/4/2023 11:52 AM	File folder		
Desktop	Deploy_Instructions.html	12/4/2023 11:50 AM	Chrome HTML Do 10 KB		
Downloads	deploy_PLATINUM.zip	12/4/2023 11:50 AM	Compressed (zipp 53,475 KB		
Documents					
Treat					
Troot					
Director					
- Unpatcher					
BMIDE					
Packages					
depioy_scripts					
software	*				
full_update					
Jetty					
repo					
Tc14.0.0.0_Frontline_Spatial_Inte	egration_4.18_				
💻 platinum					
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Downloads					
J Music					
E Pictures					
🔚 Videos					
Local Disk (C:)					
🛫 plmshare (\\platinum) (U:)					
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## Open a command prompt at the location of the deployment package.

ile Home Share Vie	ew					
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Search for "	cmd"					
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Desktop	*	dc contributions	12/4/2023 11:52 AM	File folder		
Downloads	*	dc_util	12/4/2023 11:52 AM	File folder		
Documents	\$	dcteminterop	12/4/2023 11:52 AM	File folder		
Fictures	#	jar	12/4/2023 11:52 AM	File folder		
TcRoot	+	2 contributions_version.properties	12/4/2023 11:50 AM	PROPERTIES File	1 KB	
TcData	1	i deploy.bat	12/4/2023 11:50 AM	Windows Batch File	4 KB	
Dispatcher	1	deploy.sh	12/4/2023 11:50 AM	SH Source File	4 KB	
BMIDE		deployer.properties	12/4/2023 11:50 AM	PROPERTIES File	5 KB	
Packanes		errorCatalog.json	12/4/2023 11:50 AM	JSON File	4 KB	
denlow scripts	2	media_deploymentcenter_deployer.xml	12/4/2023 11:50 AM	XML File	1 KB	
deproy_scripts		🔝 setJavaHome.bat	12/4/2023 11:50 AM	Windows Batch File	3 KB	
software	*	setJavaHome.sh	12/4/2023 11:50 AM	SH Source File	2 KB	
full_update		windows_shortpath_checker.bat	12/4/2023 11:50 AM	windows batch File	3 6.8	
jetty						
repo						
Tc14.0.0.0_Frontline_Spatial_	Integration_4.18_					
platinum						
3D Objects						
Desktop						
Documents						
L Downloads						
h Music						
E Pictures						
Videor						
Level Dick (C)						
- Locar Disk (C:)						
T pimsnare (\\platinum) (U:)						

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



# **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.

#### $\cdot\,$ 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

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.

## View the Spatial Workflows tab.

1

2



## Here is the XML Snippet for the Spatial Workflow Tab.

3



Open the XRT Editor as an administrative user.

e iny Test chile -	-					SIE
ione ione interes k Access		OGICAL OBJECTS	WORKELOW DESIGNER	XRT EDHIDA		
	AW a					
	Project no project * Group: dba * Role: DBA * Workspace:					
	Active Architect + 1D Display Rule: Empty (Initial ID only) + Revision Rule: Latest Working + Autosave Tables:					
	E Profile					

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

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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.

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