

Teamcenter 2412 Release Bulletin

Teamcenter 2412

Software Release Number: (Tc2412)

Release Date of the Software: (Dec 2024)

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1 LICENSE AND COPYRIGHT

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2 INTRODUCTION

Teamcenter 2412 is the main release of the Teamcenter platform with Teamcenter applications. Along with the Teamcenter server and the rich client package, it also includes the following packages:

- Active Workspace
- Microservice Framework
- Deployment Center
- Teamcenter Integration Framework
- Data Share Manager
- Retail Footwear and Apparel
- Supplier Collaboration
- Substance Compliance
- Teamcenter Configurator Services
- Teamcenter Electronic Design Automation (TcEDA)

Cumulative patches will be provided for the Teamcenter 2412 release stream until it has reached its End of Standard Maintenance. End of Standard Maintenance details for Teamcenter releases can be found in the End

of Standard Maintenance section below.

Problem Report (PR) corrections are indicated in the Tcrelease-level_README.CSV file provided with this kit.

2.1 TEAMCENTER DOCUMENTATION

Teamcenter documentation is available on [Support Center](#).

Open [1st Stop: Teamcenter Documentation Home](#) for a categorized overview of the documentation. Late-breaking updates that were not included in the documentation may be included in this release bulletin.

2.1.1 Installing Teamcenter documentation on your local network

You can install the Teamcenter documentation on your computer or local network. To do so:

1. [Install Siemens Documentation Server](#) on your computer or local network.
2. Deploy the required Teamcenter documentation packages on Siemens Documentation Server.

Based on the content you need, you can deploy the following documentation packages, which are available at [Teamcenter > Downloads](#):

Documentation Package	Download Area
<i>docs-teamcenter*</i>	Teamcenter
<i>docs-teamcenter-*developer-references*</i>	Teamcenter Developer References
<i>docs-easyplanmfg-solution*</i>	EasyPlan/Mfg Solution
<i>docs-electronic-work-instructions*</i>	Electronic Work Instructions
<i>docs-service-lifecycle-management*</i>	Service Lifecycle Management
<i>docs-rapid-start*</i>	Rapid Start

Videos embedded within the Teamcenter documentation will play only if you are connected to the internet. You can download the videos as a ZIP file (*docs-teamcenter*_videos.zip*) from [Teamcenter > Downloads](#).

The Teamcenter Services Reference and Javadoc are available as ZIP files in the Teamcenter Developer References downloads area:

- docs-teamcenter*_services_reference.zip
- docs-teamcenter*_javadoc.zip

The following deliverables are not available in the local installation of the documentation but can be accessed on Support Center:

- Active Workspace Guide for Rich Client Users

- Siemens Web Framework
- Siemens Web Framework UI Pattern Library
- Teamcenter AI Services – AWS Infrastructure Setup
- Teamcenter AI Services – Azure Infrastructure Setup
- Teamcenter AI Services – Local Infrastructure Setup
- Teamcenter Deployment Reference Architecture
- Teamcenter Server Customization in C# – Reference
- What's Changed in Teamcenter APIs

2.2 AVAILABLE TEAMCENTER PLATFORMS AND LANGUAGES

Siemens distributes the following software images for the Teamcenter 2412 release:

Teamcenter 2412 for Microsoft Windows 64-bit

Teamcenter 2412 for Linux 64

Teamcenter 2412 Embedded Visualization, All Platforms

Teamcenter is translated into the following language locales on all server-supported platforms:

Chinese (Simplified)

Chinese (Traditional)

Czech

English

French

German

Italian

Japanese

Korean

Polish

Portuguese (Brazilian)

Russian

Spanish

2.3 INSTALLATION

Installation

For install or upgrade, refer to the appropriate documentation on Support Center. All documents related to installation and upgrade are listed under the *Deployment* category on the *1st Stop: Teamcenter Documentation Home* page.

License Server

This release of Teamcenter will require the use of the new Siemens License Server (SLS) v2.0.1 or higher.

Please use the following steps to download the new Siemens Licensing Server.

Siemens License Server v4.0.0 download (login required)

<https://support.sw.siemens.com/en-US/product/1586485382/download/202405009>

Select a Version (pulldown)

"Siemens License Server v4.0.0".

The file to download for software (choose one based on your OS):

- > SiemensLicenseServer_v4.0.0_Win64_x86-64.exe
- > SiemensLicenseServer_v4.0.0_Lnx64_x86-64.bin
- > SiemensLicenseServer_v4.0.0_Lnx64_arm.bin

Please refer to the readme file with the download for instructions on extracting the main zip file or reference links to the Admin and Install guides found at the bottom of the SLS download page.

Knowledge Base resources are also available on Support Center to handle FAQ's and manual workarounds on the details of configuring SLS. <https://support.sw.siemens.com/en-US/product/1586485382>

Deployment Center

You can use Deployment Center to install and update Teamcenter. It can be found under the **install\DeploymentCenter** directory of the Teamcenter installation media. Please review the documents listed in the Installation section for Teamcenter installation instructions using Deployment Center.

Upgrading or moving to Teamcenter 2412

To find which versions of Teamcenter is supported with a direct upgrade to Teamcenter 2412, refer to the upgrade sheet in the Teamcenter Interoperability (Compatibility) Matrix on Support Center at Teamcenter > Download > Support White Papers Certifications at the following location:

<https://support.sw.siemens.com/en-US/product/282219420/download/PL20200617155641511>

If your initial environment is not supported for a direct upgrade to Teamcenter 2412, you must upgrade to an initial supported version and then upgrade to Teamcenter 2412.

2.4 PLATFORM SUPPORT

For information about versions of operating systems, third-party software and Teamcenter software that are certified for your platform, refer the following Document located on Support Center : Teamcenter Hardware and Software Certifications

<https://support.sw.siemens.com/en-US/product/282219420/knowledge-base/PL8017193>

2.5 SUPPORT POLICY FOR THIRD-PARTY SOFTWARE

The Teamcenter Hardware and Software Certifications document on Support Center describes versions of operating systems and third-party software certified for use with Teamcenter:

Certified software has been tested by Siemens to ensure its compatibility with Teamcenter. Third-party software includes databases, compilers, web browsers, and other software used with Teamcenter.

Siemens recommends using only certified operating systems and third-party software, but if you use software versions that are not certified, be aware of the following considerations:

- **Earlier versions**

Although Teamcenter may run using earlier software versions than those certified, we strongly discourage using earlier versions, and we do not provide support for doing so.

- **Later versions**

Siemens makes a reasonable effort to support Teamcenter on later operating systems and software and works with customers to resolve compatibility issues. However, we usually do not test adequately to immediately certify the later version.

Operating systems

Operating system manufacturers typically assure run-time binary compatibility between successive versions of their operating systems. Some assure compatibility when relinking or rebuilding executables and libraries with later versions of compilers.

To determine Teamcenter compatibility with operating systems and compilers, Siemens tests:

- o Compatibility for run time
- o Compatibility for relinking customizations and paths

If later versions of compilers are not compatible with earlier versions, you must link all Teamcenter customizations using the compiler version certified for the Teamcenter release. This also applies to installation of Teamcenter patches.

Software

If a software manufacturer guarantees that a later version of its product is binary-compatible with the preceding version, Siemens expects Teamcenter to function properly with the later version. Our experience has found few problems running Teamcenter with software versions later than those certified.

If Siemens discovers incompatible versions of third-party software, we post Software Field Bulletins (SFBs) on Support Center. This information is also available from your Teamcenter provider.

2.6 SUPPORT CENTER / PLM Support

Support Center is the vehicle for Teamcenter communication. It provides a single source for official Teamcenter information that is accessible through the Internet by authorized users. Maintained within Support Center is a wealth of information for the diverse mix of customers and employees in the Teamcenter community.

Information in Support Center includes, but is not limited to, the following:

- Technical documentation
- Certification announcements and bulletins
- Frequently asked questions
- Product defect reports
- Enhancement requests
- Patches
- Shareware customizations
- Tips pertaining to Teamcenter customization, performance, and administration
- Product information, customer success stories, and user conference presentations

Support Center can be accessed from the Siemens website or directly through its web server at the following website:

<https://support.sw.siemens.com/en-US>

You must have a valid account to access Support Center. To register for a new account, go to:

<https://support.sw.siemens.com/register>

Your Support Center account is your single point of authentication which allows customers to access product information and associated support tools

2.7 END OF STANDARD MAINTENANCE POLICY

See: [SFB-TEAMCENTER-8007006](#)

The Lifecycle Collaboration Software (LCS) business segment has a 2 year End of Standard Maintenance (EoS) policy for the Teamcenter Platform and Teamcenter Applications.

This means that patches will only be provided for a given Teamcenter release during the 2 years following its release date.

Customers using a Teamcenter release that has passed its EoS date are able to receive PLM Support and have rights to upgrade to future releases provided that they are under a current Maintenance, Enhancement, and Support (ME&S) contract.

Definitions:

Standard ME&S:

- Siemens provides full ME&S, giving customers the right to maintenance releases and patches, upgrades to new releases, and PLM Support.

End of Standard ME&S (EoSM):

- Date when Siemens no longer provides maintenance releases and patches for the given software release.
- Customers may still upgrade to new releases and access PLM Support
- Issues may be submitted but are evaluated against the latest software release. Any required corrections are delivered within a software release under Standard ME&S or a future release

Effectivity:

This policy applies to calendar-based releases (e.g. Teamcenter 2312) and semantic-based Major (e.g. 14) and Point releases (Teamcenter 14.1, Active Workspace 6.1, etc) that are developed and supported by the Lifecycle Collaboration Software (LCS) business segment.

EoSM Product Dates:

All dates will be maintained on Support Center in a single document and updated as new releases are planned. The document will be located on Support Center under the "Teamcenter Support White Papers Certification" section titled:

- [Teamcenter_EoSM_Schedule_<date>](#)

<https://support.sw.siemens.com/en-US/product/282219420/download/PL20200617155641511>

SUPPORT ANNOUNCEMENTS

3 Deprecation announcements

As Siemens PLM Software enhances Teamcenter, some features are deprecated or obsoleted.

- Deprecated features will be removed in a future version of Teamcenter.
- Obsolete features are either removed from Teamcenter or may be removed without further notice.

If a feature you use is deprecated, read the deprecation announcement to learn of any replacement feature. Migrate to the replacement feature as soon as possible to avoid problems when the deprecated feature becomes obsolete.

3.1 Deprecation announcements

Deprecation of the mass measurable objects

Support Announcement Deprecation of the mass measurable objects

Description:

<u>Old Objects</u>	<u>New Objects</u>
<u>Wnb0MassMeasurableAttribute</u>	<u>Att0MeasurableAttributeDbt, Att0MeasurableAttributePnt</u>
<u>Wnb0MassMeasureValue</u>	<u>Wnb0MassAndBalanceAttribute</u>
<u>Wnb0CGMeasurableAttribute</u>	<u>Att0MeasurableAttributePnt</u>
<u>Wnb0MolMeasurableAttribute</u>	<u>Att0MeasurableAttributePnt</u>
<u>Wnb0PolMeasurableAttribute</u>	<u>Att0MeasurableAttributePnt</u>
<u>Wnb0MassMeasurement</u>	<u>Not required in new data model</u>
<u>Wnb0CGMeasureValue</u>	<u>Not required as it was not used</u>
<u>Wnb0MolMeasureValue</u>	<u>Not required as it was not used</u>
<u>Wnb0PolMeasureValue</u>	<u>Not required as it was not used</u>

<u>Old Property</u>	<u>New Property</u>
<u>BOMLine.wnb0MinCoMX</u>	<u>None</u>
<u>BOMLine.wnb0MaxCoMX</u>	<u>None</u>
<u>BOMLine.wnb0MinCoMY</u>	<u>None</u>
<u>BOMLine.wnb0MaxCoMY</u>	<u>None</u>
<u>BOMLine.wnb0MinCoMZ</u>	<u>None</u>
<u>BOMLine.wnb0MaxCoMZ</u>	<u>None</u>

<u>BOMLine.wnb0MassUoM</u>	<u>None</u>
<u>Awb0ConditionalElement.wnb1MinCoMX</u>	<u>None</u>
<u>Awb0ConditionalElement.wnb1MaxCoMX</u>	<u>None</u>
<u>Awb0ConditionalElement.wnb1MinCoMY</u>	<u>None</u>
<u>Awb0ConditionalElement.wnb1MaxCoMY</u>	<u>None</u>
<u>Awb0ConditionalElement.wnb1MinCoMZ</u>	<u>None</u>
<u>Awb0ConditionalElement.wnb1MaxCoMZ</u>	<u>None</u>
<u>Awb0ConditionalElement.wnb1MassUoM</u>	<u>None</u>

<u>Old LoV entry for Application (Att0Applications)</u>	<u>New Entry</u>
<u>Weight</u>	<u>Engineering</u>

<u>Old LoV</u>	<u>New LoV</u>
<u>Wnb0AttrType</u>	<u>None</u>

<u>Old Preference</u>	<u>New Preference</u>
<u>WNB0_MassAttributeDefID</u>	<u>None</u>

Release Deprecated In: ~~RI~~ Teamcenter 2412

Product Area Structure Management

Replacement See the description in the preceding section.

Deprecation of cli0clminteg template

Support Announcement Deprecation of cli0clminteg template

Description: Cli0clminteg ITK:

CLI_get_dependency_property

CLI_filter_objects_of_type

CLI_get_file_property_from_datasets

CLI_get_root_of_clause

CLI_create_as_planned_structure

CLI_master_update_notification

CLI_rollback_as_planned

CLI_unstatus_baseline

CLI_process_flow_validation
CLI_process_target_uom_validation
CLI_final_material_validation
CLI_operation_consumption_uom_validation

SOA:

Plugin:

com.teamcenter.rac.cme.cli0clminteg

Library:

libCli0clminteg.dll

Release Deprecated In:  Teamcenter 2412

Product Area Manufacturing Process Planner

Replacement Teamcenter Active Integration

Active Workspace Application Connect is deprecated

Support Announcement Active Workspace Application Connect is deprecated

Description: The App Connect feature, also known as remote hosting, is deprecated in Teamcenter 2412 and will be obsoleted in future release.

Siemens recommends using Active Workspace as an embedded client in the C++ host applications such as Teamcenter Visualization and NX, or embed the Active Workspace client in an inline frame (iframe) in the Javascript host application.

This has no impact on Java applications or .NET-based applications, as it does not consume any resources equivalent to **socket.io-client-cpp**. (Remote hosting is currently not supported for Java and .NET language binding applications.)

Release Deprecated In:  Teamcenter 2412

Product Area Integrations

Replacement No replacement.

Deprecation of cmtmesinteg template

Support Announcement Deprecation of cmtmesinteg template

Description: List of MESInteg ITK:

MESINTEG_BOM_release_status_validation

MESINTEG_BOM_workarea_assigned_validation

MESINTEG_BOM_structure_validation

MESINTEG_BOM_flow_validation
MESINTEG_BOM_workarea_name_validation
MESINTEG_BOM_change_object_validation
MESINTEG_BOM_signoff_validation
MESINTEG_get_object_from_occurrence_type
MESINTEG_get_object_from_relation
MESINTEG_get_pmi_dcd_objects
MESINTEG_get_property_from_pmi_dcd
MESINTEG_get_activity_child_object_from_occurrence_type
MESINTEG_get_root_item_revision_from_execution_plan
MES_InvokeMasterUpdateNotification
MES_InvokeValidateReleaseAndExport

List of MESInteg SOA:

applyReleaseStatusToLines
createReleaseUpdatePackage
findReleaseCandidates
isUpdateAllowed
openPreviousReleasedVersion
executionDataExport
setExecutionIdAndRevisionRule
executionDataExport2
createReleaseUpdatePackage2
executionDataExport3
findWorkOrderStatusProps

Plugin:

com.teamcenter.rac.cme.mesinteg.jar

Library:

libmesinteg.dll
libmesbvrinteg.dll
libmei0soamesinteg.dll

Release Deprecated In:  Teamcenter 2412

Product Area Manufacturing Process Planner

Replacement cli0clminteg - deprecated

Deprecate Microsoft Visio integration with Systems Engineering in Rich Client

Support Announcement Deprecate Microsoft Visio integration with Systems Engineering in Rich Client

The **awb0WindowStateToggles** is a bit masked integer property.

Release Deprecated In:  Teamcenter 2412

Product Area Structure Manager

Replacement Use Awb0ProductContextInfo.awb0WindowStateToggles to extract bit masked integer for all window toggle states

"Active Workspace Systems Engineering 4G Designer Alignment" feature is deprecated.

Support Announcement "Active Workspace Systems Engineering 4G Designer Alignment" feature is deprecated.

Description: The Active Workspace Systems Engineering 4G Designer Alignment feature was deprecated in Active Workspace 3.1. As this feature is no longer supported, it will be removed in Teamcenter 2512.

Release Deprecated In:  Teamcenter 2412

Product Area Model Based Systems Engineering

Replacement NA

4 Obsolescence announcements:

Starting with Teamcenter Visualization 2412, VisView Convert & Print support for processing PostScript files will be obsoleted

This notice is to inform customers that starting with Teamcenter (Visualization) 2412 VisView convert & Print, we will no longer support processing PostScript files.

Siemens Digital Industries Software will continue to support processing PostScript files through Teamcenter Visualization VisView Convert & Print 13.x and 14.x series per the standard Teamcenter deprecation policy. After the deprecation period, the processing of PostScript files will be obsoleted and removed from the product

5 RELEASE NOTES

The following release notes pertain

5.1.1 Installation and Upgrade

Release Note Title: HTTPS automation using Deployment Center - Preview **Release Note:** Teamcenter 2412
Deployment Center is enhanced to provide the ability to configure the following components to be automatically deployed in HTTPS mode. This feature is currently available in preview mode only. The recommendation is to continue using manual mode for HTTPS.

- Server Manager (Pool Manager)
- Microservice Node
- Active Workspace Gateway
- Indexing Engine
- Teamcenter Integration Framework (TclF)
- Visualization Pool Assigner
- Visualization Server Manager

How to work around or avoid: Existing manual configurations can continue to be used for configuring HTTPS mode.

Release Note Title: Server pool fails to start due to an "invalid role or secret ID" error during startup **Release Note: Problem Description:**

If a deployment fails, and you then attempt to update the Server Manager component using Deployment Center, either through the user interface or by using quick deploy files, the server pool fails to start. This problem triggers an automatic rotation of secrets in Teamcenter Vault. If you then retry the deployment, the secrets are not updated because the associated artifacts for Teamcenter Vault have already been executed.

How to work around or avoid: This issue can be mitigated by following any one of these steps:

1. Copy the **vault_connector.properties** file from the initial deploy script (the generated deploy script) to the **T C_ROOTtc_vault_tls** folder.
2. If the deployment is successful, then follow these steps.
 - In the Deployment Center **Components** tab, select the **Teamcenter Vault** component.
 - Click the Show all parameters icon, and then select the **Rotate Authentication Parameters?** check box to rotate the secrets.
 - Go to the **Deploy** tab and generate scripts.
 - Deploy the generated scripts.
3. Copy and replace the **tc_vault_tls.zip** file from the previously generated deploy script `<deploy-script>datatls_configurationtc_vault_tls.zip` to the newly generated deploy script at `<deploy-script>datatls_configuration f` older.

Release Note Title: Active Workspace search fails after updating the Solr user password in Deployment

Center Release Note: Problem Description:

Active Workspace search fails if the Teamcenter administrator changes the Solr password as part of a maintenance operation.

After initial installation, if you change the Solr password in Deployment Center as part of a maintenance operation, Deployment Center fails to update the Solr user password (Indexing Engine user password). As a result, search operations fail in Active Workspace. **How to work around or avoid:**

1. Locate the **aws2_indexingEngine_artifact.xml** file in the `<Tc2412-kit>/dc_contributions/packages` folder.
2. Open the file and locate maintenance block >> **maintenanceUpdate target**
3. Remove following **if** condition that checks the **aws2_indexingEngineUser** and **aws2_indexingEngineUserPassword** properties for modification:

```
<if>
  <or>
    <isPropertyModified name="aws2_indexingEngineUser"/>
    <isPropertyModified name="aws2_indexingEngineUserPassword"/>
  </or>
  <then>
```

4. Remove the above block, including the end tag as well (`</if>`)
5. Save the **aws2_indexingEngine_artifact.xml** file, and then perform the maintenance.

Release Note Title: Updating Teamcenter Rapid Start 2312 to 2412 fails because it is unable to locate `start_service.bat` **Release Note:** During the installation, upgrade, or patching of certain microservices, TEM may prompt for the location of the `start_service.bat` file. This is due to TEM looking for `start_service.bat` file in the wrong location.

How to work around or avoid: Browse to the file in the correct location, which will be either the parent directory or a subdirectory of where TEM is currently prompting.

Release Note Title: After upgrading the HTTPS environment to Teamcenter 2412, the Teamcenter Teams Broker microservice does not run **Release Note:** When Teamcenter 2312 or Teamcenter 2406 is configured with the HTTPS environment and you try to upgrade to Teamcenter 2412 with the HTTPS configuration, the Teamcenter Teams Broker microservice might not run. Thus, you cannot use the Teamcenter application in Microsoft Teams. **How to work around or avoid:**

1. Open `%TC_ROOT%microserviceservices_configtcteamsbroker.json`.
2. Add the following variables in the "environment" section: `"KestrelEndpointsHttpsCertificatePath=<PATH_TO_CERTIFICATE_FILE>"` and `"KestrelEndpointsHttpsCertificateKeyPath=<PATH_TO_CERTIFICATE_KEY_FILE >"`.
3. Replace `<PATH_TO_CERTIFICATE_FILE>` and `<PATH_TO_CERTIFICATE_KEY_FILE >` with the actual values.
4. Restart the TcBroker microservice.

Release Note Title: Custom templates need to remove references to the `s2clsocial_template.xml` prior to updates **Release Note:** The Active Collaboration for Retail feature (`s2clsocial_template`) is no longer available

for installation. References have been removed in out of the box template installations and upgrade paths. Custom templates, however, will need to manually have the references removed to prevent BMIDE errors during upgrade. **How to work around or avoid:** If you have a standard out of the box configuration, no additional steps are needed.

If you have a custom template that contains a dependency on **s2cl_template.xml**, follow these steps prior to upgrade:

1. In your current release BMIDE, remove the custom dependency on the **s2cl_template** and any other **s2cl** classes.
2. Import the project into the new (Teamcenter 14.x+) BMIDE.

Release Note Title: Rich client embedding Active Workspace in a high-security environment **Release Note:** The rich client uses WebView2 (Edge based) to embed the Active Workspace into a view panel. When working in high-security environments, there are two issues that require consideration.

User Data Directory

WebView2 creates a user data directory to store caches and persistent data like cookies and local storage. By default, all embedded Active Workspace instances in an application share this directory.

The default user data folder directory is:

```
%LOCALAPPDATA%"><AppName>ActiveWorkspaceBrowser  
<AppName> is defined using Display.setAppName()
```

Fixed-version WebView2 runtime configuration

The rich client installation includes the WebView2 Evergreen distribution mode for all embedded browser applications. The Evergreen mode requires internet access to automatically update the WebView2 runtime files.

How to work around or avoid: User Data Folder

You can override the default user data directory location on a per-process basis by setting the `com.siemens.splm.browser.interop.AWDDataDir` system property.

Fixed-version webview2 runtime configuration

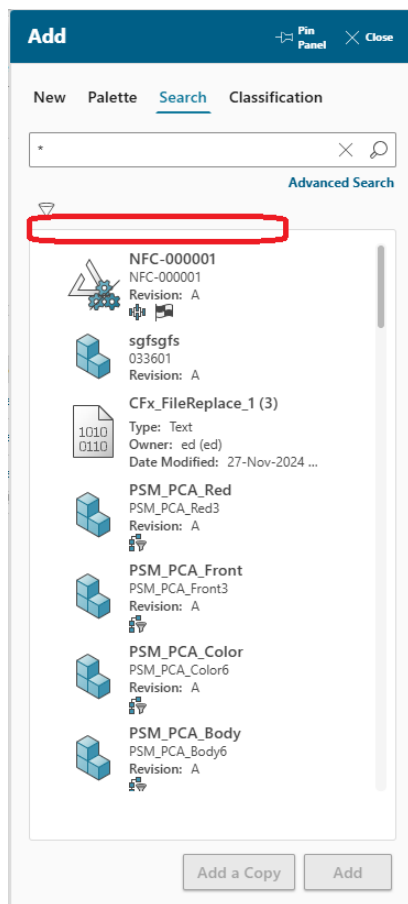
Although the rich client does not include the fixed-version of WebView2, it is supported if you install it. To configure the fixed-version of WebView2:

1. Download the Fixed Version from Microsoft's [Download the WebView2 Runtime](#) site.
2. Decompress the WebView2 Runtime package using the command-line command `expand {path to the package} -F:* {path to the destination folder}` or by using a decompression tool such as WinRAR. Avoid decompressing through File Explorer. It may not generate the correct folder structure.
3. Include all the decompressed Fixed Version binaries in your app package, for deployment on the target machine during your app's installation.
4. Use the `org.eclipse.swt.browser.EdgeDir` system property to set the directory of the fixed version of WebView2.

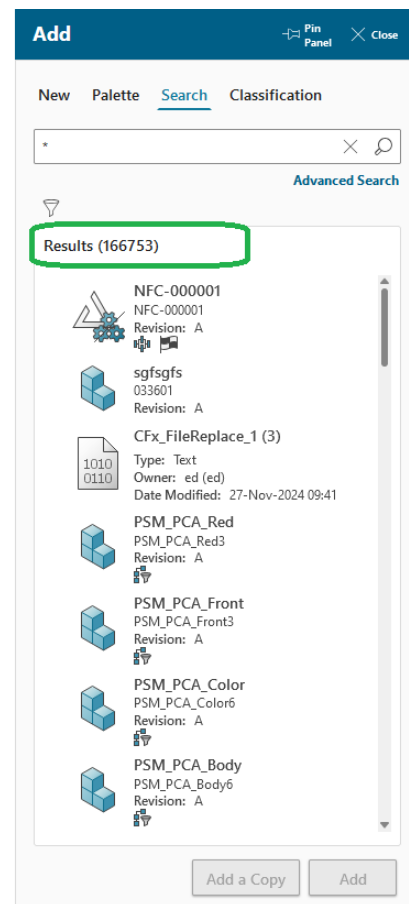
5.1.2 Customization

Release Note Title: Scrollbar and section header issues in Active Workspace using Google Chrome and Microsoft Edge 131 versions **Release Note:** With Google Chrome and Microsoft Edge version 131 and onwards, Active Workspace for Teamcenter 2412 may not show header titles in some pages and panels, such as within the Search tab in the Add Panel.

Add Panel:



2412 - Title missing
in Chrome/Edge 131



2412 - Title appearing
in Chrome/Edge 130

References

SFB - <https://support.sw.siemens.com/en-US/knowledge-base/PL8820268?audience=external>

<https://developer.chrome.com/blog/styling-details> - Link where Google documented the change in behavior and a possible impact to Active Workspace.

<https://issues.chromium.org/issues/379214835#comment6> - Link where Chromium users reported the issue.

<https://html.spec.whatwg.org/multipage/rendering.html#the-details-and-summary-elements> - Documents the standards changes to details that drove the change.

How to work around or avoid: This Active Workspace client usability issue for Teamcenter 2412 will be fixed in Teamcenter 2412.0001

Alternatively, you can modify an OOTB Active Workspace source file.

1. Search within your Active Workspace stage directory for **reset.scss**. Refer to the [Active Workspace Customization](#) help documentation for information about finding the folder.
2. Edit the file by appending the following lines:

```
// Fix for Chrome and Edge 131+ where summary and details inter styling default  
changed causing issues in display for existing usages.
```

```
    details.sw-section:not(.aw-widget-hide) {  
        display: inline-block;  
    }
```

```
// End fix for Chrome and Edge 131
```

3. Rebuild and publish Active Workspace.
 - a. Run the **aw build** script
 - b. Optionally publish to other gateways using the **aw publish** script

For more information, refer to the [Active Workspace Customization](#) help documentation.

Release Note Title: getLocalizedTextFromKey and getLocalizedText functions of localeService.js are enhanced to take custom locale code input parameter. **Release Note:** Beginning with Teamcenter 2412, in Active Workspace client customization, there is a change to published APIs

1. **getLocalizedTextFromKey** - The function of localeService.js is enhanced to take a second parameter as custom locale code, this is an optional parameter. If you need a localized message bundle/value for a custom locale, pass that custom locale code as a second parameter to the getLocalizedTextFromKey function. Please note that the second parameter of getLocalizedTextFromKey is now reserved for custom locale code.
2. **getLocalizedText** - The function of localeService.js is enhanced to take a fifth parameter as custom locale code. This is an optional parameter. If you need a localized message bundle/value for a custom locale, pass that custom locale code as 5th the fifth parameter to the getLocalizedText function.

`getLocalizedText(resource: string, key: string, useNative: boolean, noCache: boolean, localeCode: string) → Promise.<string>`

Returns localized text from the given resource with the given key

Parameters

Name	Type	Description
resource	string	Name of the country-neutral (i.e. w/o country-code or extension) i18n resource to load (or null to return the 'BaseMessages' resource)
key	string	The text key for the text which need to be localized
useNative	boolean	Use browser native API to execute. Don't use it in return before beyond angular is done
noCache	boolean	Control, if we want use the cached Locale value or not
localeCode	string	Custom locale code (optional), if you need a localized message bundle/value for some custom locale

Returns

Promise. — Promise containing the localized text

`getLocalizedTextFromKey(resource: string, localeCode: string) → Promise.<string>`

Returns localized text from the given resource with the given key

Parameters

Name	Type	Description
resource	string	Name of the country-neutral (i.e. w/o country-code or extension) i18n resource.key to load
localeCode	string	Custom locale code (optional), if you need a localized message bundle/value for some custom locale

Returns

Promise. — Promise containing the localized text

How to work around or avoid: NA

Release Note Title: Audit check for anti pattern in AW client life cycle hook **Release Note:** Beginning with Teamcenter 2412, if your custom Active Workspace view model definitions contain any of the following actions on the **onUnMount** lifecycle hook, then you will receive an error **'Ensure that unmount hook action is not async'**:

- performs data mutations
- uses batchJob
- involves asynchronous functions

After the first action is performed, the action queue loses its reference to the view model since it gets unmounted. Subsequent actions will likely not able to run properly.

The anti-pattern

```

....."clearCtxData":{
.....  "actionType": "batchJob",
.....  "steps": [{
.....    "action": "unRegisterProjectDetails"
.....  },
.....  {
.....    "action": "unRegisterLovDetails"
.....  }
..... ]
..... }
..... },
..... "lifecycleHooks": {
.....   "onMount": "initialize",
.....   "render": "render",
.....   "onUpdate": [{
.....     "action": "updateContributedViewsCnt",
.....     "observers": ["viewModel.data.contextJson"]
.....   }],
.....   "onUnmount": "clearCtxData"
..... },
..... }

```

How to work around or avoid: There are two possible solutions to this issue.

1. Fix the anti patterns - The code must be updated to a synchronous, non-mutating action. Use **JsFunction** in stead of **batchJob** in **onUnmount**.

```

....."clearCtxData":{
.....  "actionType": "JsFunction",
.....  "method": "clearCtxDataForComponent",
.....  "inputData": {
.....    "props": "{{props}}",
.....    "data": "{{data}}",
.....    "ctxDeprecated": "{{ctx}}"
.....  },
..... },
..... "lifecycleHooks": {
.....   "onMount": "initialize",
.....   "render": "render",
.....   "onUpdate": [{
.....     "action": "updateContributedViewsCnt",
.....     "observers": ["viewModel.data.contextJson"]
.....   }],
.....   "onUnmount": "clearCtxData"
..... },
..... }

```

2. Skip audit

5.1.3 General

Release Note Title: PLMXML import and export support for Extended Attributes (Fnd0AbsExtdItemAttr & Fnd0AbsExtdItemRevAttr and subtypes) **Release Note:** The import and export of Extended Attributes (Fnd0AbsExtdItemAttr, Fnd0AbsExtdItemRevAttr, and subtypes) using PLMXML is not supported in Teamcenter 2412. **How to work around or avoid:** Use TcXML for importing and exporting Extended Attributes (Fnd0AbsExtdItemAttr, Fnd0AbsExtdItemRevAttr, and subtypes).

Release Note Title: Geometry is not displayed in NX after opening the aligned EBOM with Minimal Load option

Release Note:

1. Set load options to **Minimally Load** in NX.
2. Log on to Active Workspace and open an aligned EBOM in NX.

The CAD geometry of the aligned EBOM is not displayed in NX.

How to work around or avoid:

1. Use the **Partially Load** option in NX to load the CAD Geometry of the aligned EBOM.
2. Use Active Workspace hosted in NX.

Release Note Title: Row's values are deleted in the Variable Classification Definition table **Release Note:** When you create a **Variable Quality Characteristic**, and you add a row in the **Variable Classification Definition** table, the row's values are not saved when you edit the Variable Quality Characteristic for the first time. This issue occurs only when the Quality Characteristic is created for the first time. **How to work around or avoid:** Refresh the browser page, re-enter the values in the **Variable Classification Definition** table, and save the Quality Characteristic. The values are saved in the table.

Release Note Title: Values in Dynamic Sampling Size are not automatically updated **Release Note:** When you assign **Dynamic Sampling Guideline** to an Inspection Definition, the values in the **Dynamic Sampling Size** section are not automatically updated. **How to work around or avoid:** Refresh the browser page to view the values in the **Dynamic Sampling Size** section.

5.1.4 Product Configurator

Release Note Title: Do not install the pca1awconfigurator module - Feature Planning for Active Workspace **Release Note:** Users should not install the **Feature Planning for Active Workspace** component while installing using Deployment Center. This is an internal module that is not supposed to be enabled in the UI. **How to work around or avoid:** There is no workaround. Users must do a fresh install again without selecting the **Feature Planning for Active Workspace** component.

Release Note Title: Update the fnd0impactingobjects property on SVRs to improve performance after upgrade by running a utility **Release Note:** Solution variants have a property called **fnd0ImpactingObjects** for SVRs. Prior to Teamcenter 13.2 release, the value of this property did not appear on the clients. To enable this property for the already created SVRs, it is recommended that you run the following utility to improve performance after the upgrade is performed.

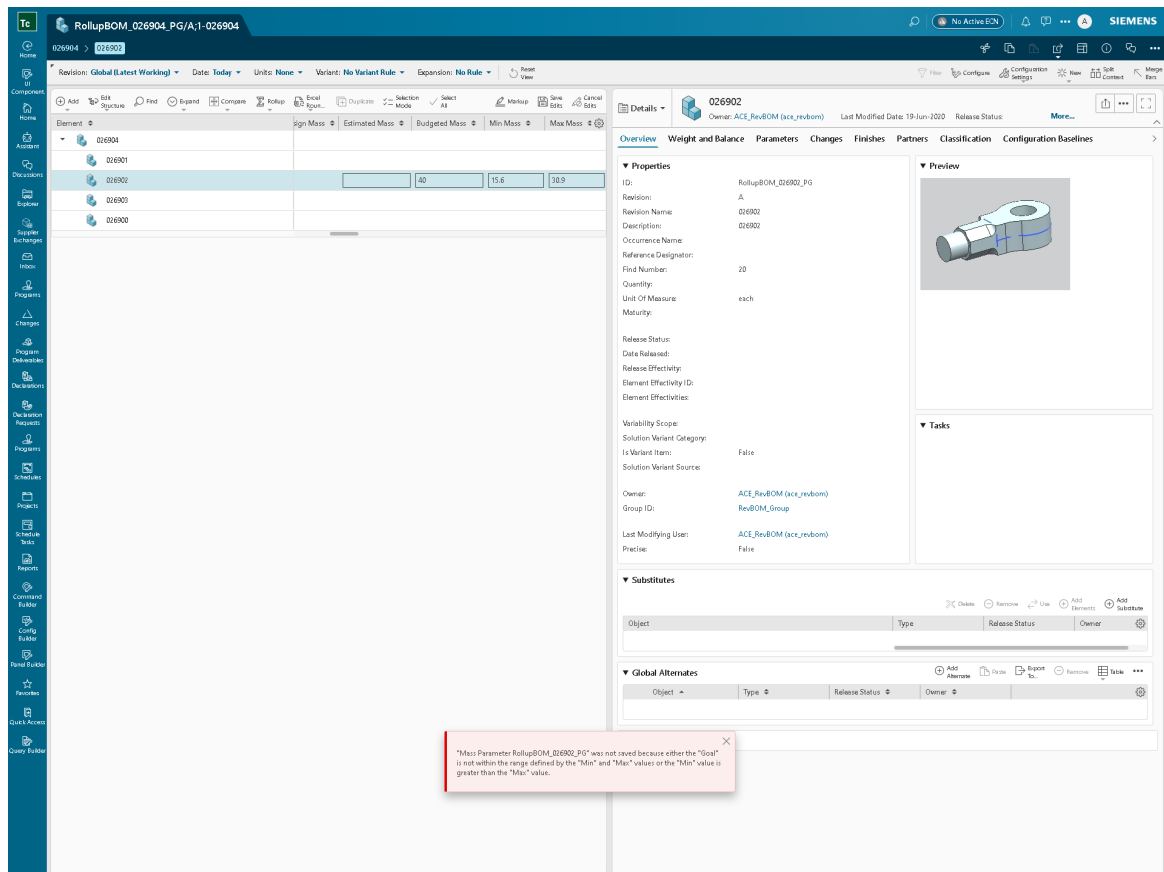
```
add_update_fnd0impactingobjects -u=TC_USER -p=password -g=dba -skip_object_process_limit
```

By default, this utility only processes all cfg0 objects from the 2412 release. However, if you want to process all objects, including non-cfg0 objects, use the **-process_non_cfg0_objects** argument while running this utility.

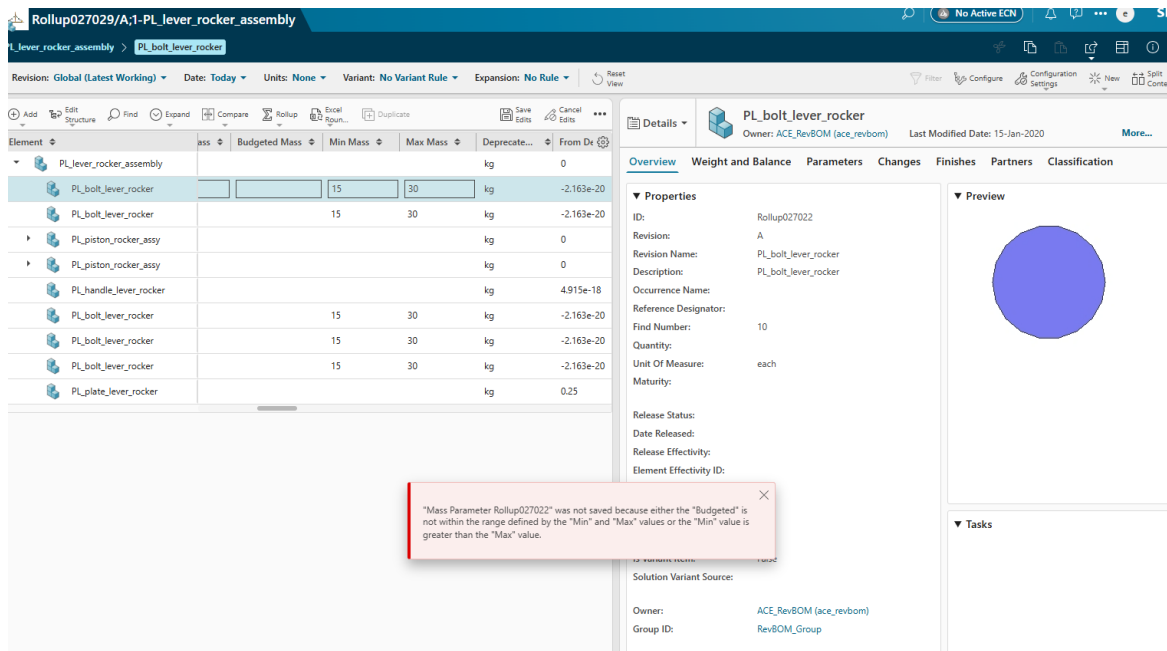
How to work around or avoid: No Workaround

5.1.5 Structure Management

Release Note Title: For Weight and Balance Management, the error message in the new data model shows the word "Goal" and continues to show the word "Budgeted" in the old data model **Release Note:** In the new data model for the rollup functionality in Weight and Balance Management, the following error message is displayed with "Goal" in the string, while editing **Budgeted mass** if either "Budgeted" is not within the range defined by the "Min" and "Max" values or the "Min" value is greater than the "Max" value:



In the old data model for the rollup functionality in Weight and Balance Management, the following error message is displayed with "**Budgeted**" in the string, while editing **Budgeted mass** if either "Budgeted" is not within the range defined by the "Min" and "Max" values or the "Min" value is greater than the "Max" value:



How to work around or avoid: No workaround needed

5.1.6 Structure Manager

Release Note Title: BOM rollup report shows "Custom Configuration" **Release Note:** If Teamcenter is configured to apply nested variant solve for a structure, any BOM rollup report generated for such a structure shows "Custom Configuration" even though a user has not explicitly applied any variant configuration. This is a result of an implicit variant configuration applied to remove any BOM lines, which have variant conditions that are inconsistent with their parent's variant conditions. **How to work around or avoid:** Not applicable

5.1.7 Rich Client

Release Note Title: [Windows 11] Toggle command is not showing the state **Release Note:** In Teamcenter Rich Client, the checked state of toggle command in Menu Bar or Context Menu is not shown.

For example,

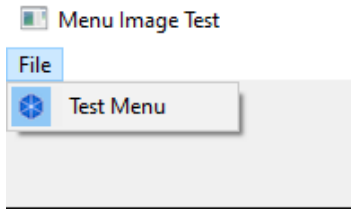
```
<command commandId="com.teamcenter.rac.testMenu"
```

```
id="com.teamcenter.rac.testMenu"
```

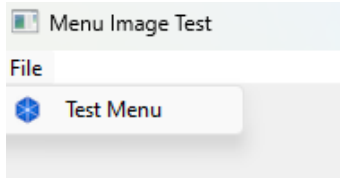
```
style="toggle"/>
```

When select Test Menu on Menu Bar, command state on the left of the command does not indicate the command is checked. This issue is on Windows 11 only.

On Windows 10 selected state is correct



In Windows 11 selected state is missing



How to work around or avoid: **Root Cause:**

Due to Windows 11 theme change, checked state isn't correctly painted on Eclipse SWT control. There is an issue opened in Eclipse community:

<https://github.com/eclipse-platform/eclipse.platform.swt/issues/501>

Workaround:

Unfortunately, there is no workaround for this use case. Once Eclipse fixes the issue, we will do the upgrade and announce vendor fixed

Release Note Title: Open Teamcenter Web Client view causing Rich Client crashed **Release Note: Problem Description:**

Use case 1. After make Teamcenter Rich Client default perspective to "Web Browser" by adding the following argument to Teamcenter.ini in Rich Client installed location:

```
-perspective  
com.teamcenter.rac.aif.portalbrowser.PortalBrowserPerspective
```

Login Teamcenter Rich Client, Web Browser perspective is opened first, open My Teamcenter perspective, select Home folder, open Teamcenter Web Client view, Rich Client is crashed.

Use case 2. Without setting any argument in use case 1, login Teamcenter, make sure Teamcenter Web Client View never opened before, then open Web Browser perspective, once web page loading is completed, go back to My Teamcenter perspective, select Home folder, open Teamcenter Web Client view, Rich Client is crashed.

Use case 3. Without setting any argument in use case 1, login Teamcenter, In My Teamcenter perspective, make sure Teamcenter Web Client view never opened before, then open Search view, select Created Before field, and select the date from date picker, select Home folder in Home view, open Teamcenter Web Client view, Rich Client is crashed.

How to work around or avoid: **Root Cause:**

When multiple instance of webview2 are created, webview2 environment are not created correctly, causing Rich Client to crash.

This is an Microsoft embedded webview2 issue, here is the bug detail: <https://github.com/MicrosoftEdge/WebView2Feedback/issues/3793>

This issue is existed in webview2 runtime version from 114 to 118

Solution:

The issue above is fixed in Microsoft WebView2 runtime version 119. For the customers using Evergreen webview2 runtime, check WebView2 runtime version installed on OS is auto upgraded to 119.0.2151.44. For the customers using Fixed Version webview2 runtime, please download Webview2 version 119.0.2151.44 and later, then set it to the edge directory configuration before running Teamcenter Rich Client

5.1.8 Smart Discovery and 4G Design

Release Note Title: The default Search Settings are applied to Smart Discovery filter panel for filtering structures **Release Note:** You can change the default settings in the **Search Settings** panel to customize or modify the **Filter** panel and search data within Teamcenter. However, these settings are not applicable and used to filter the structures using Smart Discovery. **How to work around or avoid:** Set the settings to the default values in the **Search Settings** panel in order to filter the structures using Smart Discovery.

5.1.9 Visualization

Release Note Title: Anchored text markup leader line not restoring to the correct point in Active Workspace. **Release Note:** In the Teamcenter 2412 release, when a user creates an anchored text markup in Active Workspace and then saves the markups to a session or snapshot, upon restoring the snapshot the leader line is not restored to the proper anchor point. **How to work around or avoid:** None at this time.

Release Note Title: Error in 3D viewer when Smart Discovery filter is applied on EBOM Workset **Release Note:** An error occurs when opening the 3D viewer and then applying the Smart Discovery (SD) filter on the EBOM within a workset.

How to work around or avoid:

1. Apply the SD filter before launching 3D viewer:
 - Apply the SD filter in the workset, then launch the 3D viewer. This sequence helps avoid the error.
2. Replay the Error to Load Filtered Structure:
 - If the error message appears, click "**Replay**". This action will allow the filtered structure to load in the 3D viewer.

Release Note Title: Variant and Revision Rule Information in Teamcenter lifecycle visualization Properties Dialog is not Updated after Delta Update **Release Note:** Variant rule and revision rule information are not updated in the Properties dialog in Teamcenter lifecycle visualization after a change occurs to these properties in hosted or application connected Active Workspace. **How to work around or avoid:** The workaround is to view the variant rule and revision rule in Active Workspace.

5.1.10 Reporting

Release Note Title: Control the display of content in Active report **Release Note:** When an Active report is authored, users can specify the Title of the Report and Chart. These values are text fields, and users cannot provide localization values. Consequently, when users execute an Active report in a non-English locale, the report content remains unlocalized. To address this issue, a new preference called **REPORT_Hide_Non Localizable_Title** has been introduced. This has the following behavior:

Default value: **true**

- Use the report name value as the Title for the Report.
-
- Use the property name as the Title for the Chart.
- All the report content is localized.

Impact:

- While authoring the new Active report text fields, the Title values for the Chart and Report are not visible.
- While loading existing Active reports, the Title values defined by users are not displayed.

Non-Default value: **false**

- Use the assigned title as the Title for the Report.
- Use the assigned title as a Title for the Chart.
- Not all the report content is localized.

Impact:

- While authoring the new Active report, the Title text fields for Chart and Report are visible.
- While loading existing Active reports, the Title values defined by the user are displayed.

How to work around or avoid: Set the preference values appropriately.

5.1.11 Rapid Start

Release Note Title: Unsupported feature "NXX data import microservice" is available while installing Teamcenter Rapid Start using TEM **Release Note:** When installing Teamcenter Rapid Start 2412 using TEM, an unsupported feature **NXX data import microservice** is available for selection. Users should not select this feature as it is not supported with Teamcenter Rapid Start. **How to work around or avoid:** Users should not select the **NXX data import microservice** feature during installation of Teamcenter Rapid Start using TEM as it is not supported with Teamcenter Rapid Start.

Release Note Title: Additional unsupported applications available while installing Teamcenter Rapid Start using Deployment Center **Release Note:** When you install Teamcenter Rapid Start using Deployment Center, you will see additional unsupported applications available for installation. We recommend that you refer to the [list of applications supported by Rapid Start](#) for installing Rapid Start using Deployment Center.

How to work around or avoid: Users should refer to the [list of applications supported by Rapid Start](#) on Deployment Center which is included in the Teamcenter Rapid Start documentation.

5.1.12 Integrations

Release Note Title: Error Occurs When updating a model with seg0Source or seg0Target in the JSON payload

Release Note: The **UpdateCollection** API fails if the integrator tries to update the **seg0Source** or **seg0Target** property, resulting in the following error:

```
Error occurred in updateCollection: 38099: The operation "" is not implemented for property "" of "" type.
```

This issue only impacts Cameo integration, as the **seg0Source** and **seg0Target** properties are used in Cameo integration. **How to work around or avoid:** To work around this issue, remove the **seg0Source** and **seg0Target** properties from the integration definition file by following these steps:

1. Search for the dataset named **MAGICDRAW_BHM_INT_DEF_FILE**.
2. Download the named reference file.
3. change the direction of **seg0Source** and **seg0Target** properties in the **BHMElement Seg0Implements to TcToTool** -as shown below `<AttributeMapping name="Source" tcatr="seg0Source" includeinduplicatecheck="false" direction="TcToTool"/>`
4. Update the named reference file in the dataset.

5.1.13 Issue Management and CAPA

Release Note Title: PDF report generation fails in the Linux environment **Release Note:** PDF report generation fails in the Linux environment.

Windows setups function as intended post-upgrade, including PDF reports.

Linux setups will not face issues with existing reports post-upgrade, but will not benefit from the PDF report generation functionality.

How to work around or avoid: Linux setups will not face issues with existing reports post-upgrade but will not benefit from the PDF report generation functionality.

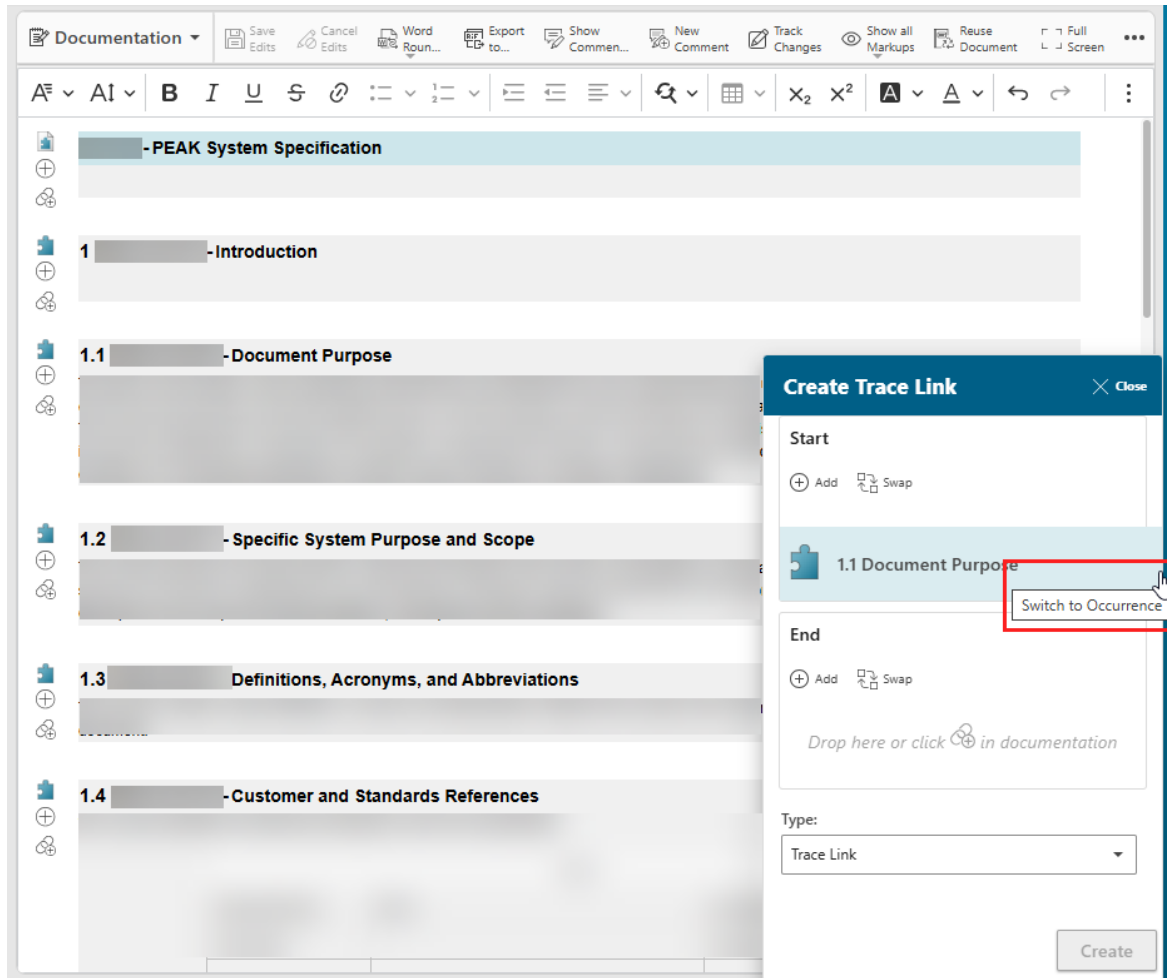
A fix for this issue will be provided in the earliest Teamcenter 2412 commercial patch.

5.1.14 Requirements Management

Release Note Title: Browser specific- Switch to Occurrence / Switch to Revision icon does not display in the Create Trace Link panel **Release Note:** When using Chrome or Edge as the browser, you may not see the

Switch to Occurrence / Switch to Revision icon in the **Create Trace Link** panel. **How to work around or avoid:**

1. Use Firefox browser.
2. When using Chrome or Edge as the browser: In **Create Trace Link** panel, hover over the right side of the object name until you see the tool tip as shown in the below graphic, and then click to switch to Occurrence or Revision.



5.1.15 Active Content Structure

Release Note Title: Copy properties present on relation object by adding preference **Release Note:** Now you can copy the relations between parts and designs along with the relation property values. This is useful when copying a relation from part to design or from design to part, ensuring that the relevant properties are also transferred.

To copy relation properties along with the relation itself, create a site-level multivalued string preference. This preference will specify which properties of a relation you want to copy.

Steps:

1) Create a site-level preference:

Preference Name: PMA0_COPY_RELATION_PROPERTY_[Fall 2024.relation-name](#)

Replace [Fall 2024.relation-name](#) with the business object name of the relation you want to copy.

2) Specify relation properties:

In the value of the preference, list the properties of the relation that you want to copy.

Example:

To copy the UOM and mass properties from the Material relation, create the following site-level preference:

Preference Name: PMA0_COPY_RELATION_PROPERTY_Mat1UsesMaterial

Preference Value: mat1uom_tag, mat1mass

This ensures that when the Mat1UsesMaterial relation is copied, the mat1uom_tag and mat1mass properties are also copied along with it.

How to work around or avoid: Not applicable

6 CLOSED PROBLEM REPORTS

For a listing of the closed problem reports, see the **Tc2412_README.xlsx** file.

Support Center / PLM Support

To report any serious problems about this product, please contact PLM Support:

- Phone:
 - United States and Canada: (800) 955-0000 or (714) 952-5444
 - Outside the United States and Canada: Contact your local support office.
- Web:
 - You can also log incident reports on the Web at: <https://support.sw.siemens.com/en-US>