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1 Tekla Structures 2024 hardware recommendations

1.1 Operating system requirements
Tekla Structures 2024 runs on the following operating systems:

- Windows 11
- Windows 10 (64-bit)

Other operating systems are not supported.
You can use Tekla Structures with application and desktop virtualization. For more information, visit Tekla User Assistance online.

1.2 Recommended hardware for Tekla Structures workstations
These hardware recommendations are based on tested configurations for Tekla Structures. You can use other configurations if they are more optimal for your intended use.

Various comparisons are available on the internet to evaluate other hardware against our recommendations. For example, see these comparisons for GPUs and for CPUs.

Before purchasing a large number of computers for Tekla Structures users, test and verify the configuration first with one or two computers.

This table presents two different hardware configurations. The recommendations are mainly for desktop computers, but the same guidelines can also be applied when purchasing laptops.
### Recommendation

<table>
<thead>
<tr>
<th>Operating system</th>
<th>Windows 11 or Windows 10 (64-bit)</th>
<th>Windows 11 or Windows 10 (64 bit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory</td>
<td>16+ GB</td>
<td>32+ GB</td>
</tr>
<tr>
<td>Hard disk</td>
<td>1 TB, SSD</td>
<td>2TB, PCIe NVMe M.2 SSD</td>
</tr>
<tr>
<td>Processor</td>
<td>Intel® Core™ i7 CPU 3 GHz or higher, or equivalent AMD</td>
<td>Intel® Core™ i9 CPU 4 GHz or higher, or equivalent AMD</td>
</tr>
<tr>
<td>Graphics card*</td>
<td>Two monitor support, such as NVIDIA GeForce RTX 3060/3070</td>
<td>Two monitor support, such as RTX 4000 -series (4080/4090) or newer</td>
</tr>
<tr>
<td>Monitors</td>
<td>Two 27 inch 2560x1440</td>
<td>43 inch 4K or two 30 inch 2560x1600</td>
</tr>
<tr>
<td>Mouse**</td>
<td>3-button wheel mouse</td>
<td>Cordless 3-button wheel mouse and a 3Dconnexion SpacePilot</td>
</tr>
<tr>
<td>Backup equipment</td>
<td>External hard drive</td>
<td>External hard drive with scheduled backups</td>
</tr>
<tr>
<td>Network adapter</td>
<td>100 Mbit/s IPv4 or IPv6</td>
<td>1 Gbit/s IPv4 or IPv6</td>
</tr>
</tbody>
</table>

*Tekla Structures rendering can use DirectX or OpenGL technology. DirectX rendering mode is better optimized for modern graphics cards. Our recommendations are based on testing of the NVIDIA graphics processor. Other graphics cards might also be suitable, but they have not been extensively tested.

**A 3-button wheel mouse is always required to be able to finish some commands, and to zoom, pan, and rotate. Tekla Structures also supports using 3D mice provided by 3Dconnexion together with a regular mouse to enhance zooming, panning, and rotating. To use a 3D mouse, install the 3Dconnexion Device extension from Tekla Warehouse.

### 1.3 Graphics card configuration

Ensure that your graphics card is set up to use a high performance profile with Tekla Structures.

You can check and assign the profile in the configuration tool provided by the graphics card manufacturer, or in Windows settings. The graphics card configuration is especially important on laptop computers, which might be configured to maximize power saving. By default, many systems use a less powerful integrated graphics processor for Tekla Structures instead of the more powerful dedicated graphics card unless you change the setting.

In addition to the main Tekla Structures software, other software components also affect how the 3D models are drawn on your computer:
Your computer uses the standard drivers provided by the graphics card manufacturer when drawing the 3D view in Tekla Structures. We recommend that you regularly check for updates to the graphics drivers from the manufacturer's website.

Before upgrading the drivers on a large number of computers, test the driver version first to ensure the update does not introduce problems in the 3D views in Tekla Structures.

1.4 Further tools to help you choose Tekla Structures workstation hardware

Join the discussion at Tekla Discussion Forum > Tekla Structures Forums > Hardware & operating system to exchange experiences with other users.

You can install TeklaMark from Tekla Warehouse to test the graphics performance of your setup and compare it to statistics from other users. For more information and statistics, see the TeklaMark support article.

1.5 Requirements for connecting to Tekla Online services

Tekla Online services provide comprehensive learning and support resources, software installation package downloads, cloud-based sharing, and various add-on tools that enhance your use of the software.

To ensure full access, follow the requirements for connecting to Tekla Online services.

1.6 Printers

Tekla Structures uses the standard Windows printer drivers provided by the manufacturer of the printer.

You can install the most recent driver from the manufacturer's website.

1.7 Additional necessary software components

Tekla Structures requires these redistributable packages.

- Microsoft .NET Framework 4.8
- Microsoft Visual C++ 2013 Redistributable (x64) 12.0.40664
- Microsoft Visual C++ 2015-2019 Redistributable (x64) 14.32.31326
- Microsoft Edge WebView2 Runtime Redistributable (x64) 106.0.1370.42
If these redistributable packages or newer versions of them are not already installed on your computer, they are automatically installed during the Tekla Structures software installation.

If your organization installs Tekla Structures centrally using .msi packages, it might be necessary to download the required redistributable components from Microsoft’s web site and install them separately.

1.8 Tekla Structures multi-user server 2.5.0 hardware recommendations

The multi-user server allows users in the same local area network to work on different parts of the same model simultaneously. The model data is stored on a central server, so users need a fast and reliable network connection to the server to ensure good performance. If you have users in different locations, the separately licensed cloud-based Tekla Model Sharing might be a better fit for you.

Operating system

Tekla Structures multi-user server 2.5.0 runs on the following operating systems:

- Windows 10
- Windows Server 2019

Running Tekla Structures multi-user server 2.5.0 on Windows 11 and Windows Server 2022 is also possible but is not yet officially supported.

Multi-user server hardware

The server that is used as the Tekla Structures multi-user server does not have to be very efficient or have maximum performance. For example, you can run the Tekla Structures multi-user server on the same computer as the Tekla License Server as long as you have dedicated different TCP ports for each of the servers.

The multi-user server can be used in networks that use IPv4, IPv6, or both the IPv4 and IPv6 protocols.

Other infrastructure

Set up scheduled backups for the model data stored on your multi-user server and store the backups on a different computer.

The computers on the same multi-user network must have a unique IP address and identical subnet masks.
The computer running the multi-user server should have a fixed IP address. The Tekla Structures multi-user server runs as a service. This means that the Tekla Structures multi-user server always starts automatically when you start the computer, and is always available when the computer is running.
Using your Trimble Identity with Tekla Structures

You need a Trimble Identity to download Tekla Structures and to use your subscriptions.

For more information, see Create your Trimble Identity.
To use Tekla Structures, you must have a Tekla Structures subscription or a legacy on-premises license.

If you use legacy on-premises licensing, additional configuration is required. For details, see Tekla Structures legacy on-premises licensing.

3.1 Tekla Structures subscriptions

A Tekla Structures subscription is connected to your Trimble Identity. The subscription is delivered directly to the Tekla Online Admin tool, where your company's Tekla Online account administrators can assign the subscriptions to individual users. When Tekla Structures starts, you sign in to Trimble's cloud to reserve your subscription license seat.

If you do not yet have a Tekla Structures subscription as a commercial user, you can start a free trial. For more information, see Get started with your Tekla Structures trial. To start your free trial, follow the steps on the free trial Download page.

For a free Tekla Student subscription to try out and learn Tekla Structures, visit the Tekla Campus site. Using a Tekla Student subscription for any commercial work is prohibited.

3.2 If you manage your own installation of Tekla Structures

**NOTE** To ensure a good experience using our software, ensure that your computer meets the Tekla Structures 2024 hardware recommendations (page 5).
To start a free trial of Tekla Structures, follow the steps on the Free Trial Download page.

If your organization has no main user who manages Tekla Structures for you, your installation follows this process:

1. **Create your Trimble Identity**, complete your profile details, and join your Tekla Online organization.
   - If you have received an email invitation from Trimble to create a Trimble Identity, follow the instructions in the email to create your account to ensure that you have the correct access rights.
     If you want to use a different email address for this account, create the account using your invitation first, then change the email address.
   - If you have not received an invitation, create a new Trimble Identity to download the software.
     To have access to your Tekla subscriptions, you must be added to a Tekla Online organization by your company’s account administrator.

2. Download the installation package for Tekla Structures and at least one of the Tekla Structures environments from Tekla Downloads.
   For a guided experience that ensures that you have all necessary files, click **Download**.

3. Install the software.
a. Run the Tekla Structures installer and ensure that the installation finishes successfully.

See Install the Tekla Structures software (page 15) if you need more detailed instructions.

b. Run one or more environment installers.

If you do not install any environments, only the Blank environment is available. Do not use the Blank environment to edit models or drawings. The Blank environment is only a basis for building your own full customized environment and does not contain all of the tools and configurations that you need to work efficiently.

After you have completed the Tekla Structures and environment installation, you can now start Tekla Structures and sign in.

After you sign in, you can select from the configurations that have been activated for you. Subscriptions can be from your Tekla Online organization, or assigned to you as an external license user in some other organization. If you purchase your own subscriptions, you can manage them in the Tekla Online Admin tool.

For more information about the Tekla Online Admin tool and how to manage Tekla subscriptions, see the Tekla Online Admin tool documentation in Tekla User Assistance.

Start learning how to use Tekla Structures:

• Find the Instructor side pane on the right-hand side of the Tekla Structures modeling or drawings view to see instructions for each command as you activate them.

• Take one of our free online eLearning courses.

### 3.3 If someone manages Tekla Structures for you

If your organization has a Tekla Structures administrator (IT administrator or main user), follow their instructions for installation and licensing.

You might still need to consider the following points:

• You need an account to access Tekla online services and subscriptions. If your company’s administrator has not invited you to your organization and assigned subscriptions to you, ask to join so that you have access to all Tekla online services and licenses: Create your Trimble Identity.

• In most cases, your company's Tekla Structures administrator prepares a customized installation package for you or installs the software for you. Ask your administrator for further instructions.

Start learning how to use Tekla Structures:
• Find the **Instructor** side pane on the right-hand side of the Tekla Structures modeling or drawings view to see instructions for each command as you activate them.

• **Take one of our free online eLearning courses.**

### 3.4 If you manage Tekla Structures for other users

For detailed administrator instructions, see the Manage Tekla Structures PDF.

1. Ensure that you have set up your Trimble Identity. See [Create your Trimble Identity](#).

2. Install Tekla Structures for your own use and start customizing it for your organization. See [Install the Tekla Structures software (page 15)](#).

3. If you are responsible for managing Tekla Structures users and subscriptions, add users to your organization in the [Tekla Online Admin tool](#) to give them access to Tekla Online services and the necessary subscriptions.

   For more information about the Tekla Online Admin tool and managing Tekla subscriptions, see [Tekla Online Admin tool](#).

4. Deploy Tekla Structures to the users in your organization.

5. Continue developing your organization's customizations and distribute them as needed.
To use Tekla Structures, install the Tekla Structures app and the Tekla Structures environments that you want to use.

Installation packages are available for download in Tekla Downloads. You can directly install the latest service pack.

For installation prerequisites and recommended hardware, see Tekla Structures 2024 hardware recommendations (page 5).

Tekla Structures service packs include the latest new features, and improvements and fixes to existing features. You do not need to separately install the related Tekla Structures version before installing a Tekla Structures service pack. For more information, see Install Tekla Structures service packs (page 19).

Tekla Structures extensions are not part of the Tekla Structures product release. Extensions are available for download in Tekla Warehouse, and you can install them separately.

If you use legacy on-premises licensing, additional configuration is required. For details, see Tekla Structures on-premises licensing.

If you have a Tekla Structures subscription, the subscription is connected to your Trimble Identity, and assigned to you by your organization's administrators. You only need to install and start Tekla Structures, and sign in to use your Tekla Structures subscription.

### 4.1 Install the Tekla Structures app

**NOTE** You must have administrator rights on the computer where you are installing the Tekla Structures app.

1. Download the installation file from Tekla Downloads to your computer.
At the site, click **Download** for a guided experience that ensures that you have all necessary files.

2. Double-click the installation file to run the installation.
3. Follow the steps in the installation wizard to complete the installation. You can select the installation folder and the model folder.

Install one or more Tekla Structures environments.

### 4.2 Install Tekla Structures environments

Environments are region or company-specific settings and information that are predefined in Tekla Structures, or that are defined by the user. We recommend that you install at least one environment after you install the Tekla Structures app.

The Default environment includes generic content that has not been localized for any region. If you are not sure which environment to install, you can install the Default environment to get started. You can later install other environments. You can install as many environments as you want.

The location of the environment installation folder depends on where you have installed the Tekla Structures app. You cannot change the environment installation folder in the installation wizard.

1. Download the environment installation files from Tekla Downloads to your computer.
2. Double-click the installation file to run the installation.
3. Follow the steps in the installation wizard to complete the installation.
4.3 Next steps after Tekla Structures installation

- Start Tekla Structures. For more information, see Start Tekla Structures.
- Start learning how to use Tekla Structures:
  - Find the Instructor side pane on the right-hand side of the Tekla Structures modeling or drawings view to see instructions for each command as you activate them.
  - Take one of our free online elearning courses.

4.4 Tekla Structures installation folders

By default, the Tekla Structures app, environments, and user settings are installed in separate folders.

You can select the installation folder for the Tekla Structures app in the installation wizard. The locations of the installation folders for environments and user settings are automatically selected based on where you have installed the app.

By default, the files are installed in the following folders:

- The Tekla Structures app is installed in the `\Program Files\Tekla Structures\<version>\` folder.
  
  When Tekla Structures is installed in the `Program Files` folder, configuration files are installed separately in the hidden `Program Data` folder.

- Environments are installed in the hidden `\ProgramData\Trimble\Tekla Structures\<version>\` folder.

- User settings are always installed in the `\Users\<username>\AppData \Local\Trimble\Tekla Structures\<version>\` folder, regardless of where the Tekla Structures app is installed.

Installation in the `Program Files` folder requires administrator rights on the computer. If it is not possible to install Tekla Structures with administrator rights, we recommend that you install Tekla Structures in a normal file folder on the computer, such as `C:\TeklaStructures`.

When you install Tekla Structures in a normal file folder, all files except for user settings are installed in that folder. Installation in a normal file folder can also be useful if you manage your own installation of Tekla Structures and you want to customize Tekla Structures.

When you install a new Tekla Structures version, make sure that the installation folder does not contain any files from other Tekla Structures versions. Removing files from other Tekla Structures versions ensures that you get all the files that are included in the installation package.
When you are installing a service pack, you cannot select the installation folder if the related Tekla Structures version or a previous service pack is already installed. The service pack is always installed in the same folder as the related Tekla Structures version or the previous service pack.

Installing the new service pack automatically removes old files from the related Tekla Structures version or the previous service pack before copying the new files. If you have your own files in the installation folder, these files remain unchanged in the folder.

When you have installed the software and the environments, you can check the installation paths in the Windows Control Panel.

**NOTE** You might need to install Tekla Structures in a folder that has a name in a non-Unicode language such as Chinese, Japanese, Korean, or Russian. If your Windows installation does not match the non-Unicode language, you must change the language in XS_STD_LOCALE and the Windows system locale in the Windows Control Panel to the same language so that Tekla Structures can work normally.
5 Install Tekla Structures service packs

Service packs contain fixes to problems found after a main version release. Service packs can also include new features and improvements that change existing features. We recommend that all users install the latest service pack.

Service pack software installation files are stand-alone installers that contain the main software version content and all changes made in previous service packs. You do not need to separately install the related Tekla Structures version or any previous service packs. For example, you can install service pack 2 without installing service pack 1. If you have the related Tekla Structures version or a previous service pack installed on your computer, you do not need to remove it before installing a new service pack.

We recommend that you also check for updates to all standard Tekla Structures environments that you are using. Installing the latest version ensures that the environments work correctly with the new service pack.

You can find the service pack software and environment installation files in Tekla Downloads. Service packs are available for all users with a valid maintenance agreement.

**NOTE**  You must have administrator rights in Windows to install the software on your computer.

5.1 Install a Tekla Structures service pack

You can install a service pack to update a Tekla Structures version or a previous service pack.

1. Install the Tekla Structures service pack software.
   a. Download the service pack software installation file from Tekla Downloads to your computer.
   b. Double-click the installation file to run the installation.
c. Follow the steps in the installation wizard to complete the installation.

If you have the related Tekla Structures version or a previous service pack already installed, you cannot select the installation folder. The service pack will be installed to the same folder as the version that you are updating.

If you do not have the related Tekla Structures version or a previous service pack installed, you can select the installation folder and the model folder.

2. Install updated versions of the environments that you use if updates are available.

The location of the environment installation folder depends on where you have installed the software. You cannot select the environment installation folder in the installation wizard.

You do not need to remove any environments. Installing a newer version of an environment automatically upgrades the older version of that environment.

a. Download the needed environment installation files from Tekla Downloads to your computer.

b. Double-click the installation file to run the installation.

c. Follow the steps in the installation wizard to complete the installation.

5.2 Revert to an earlier Tekla Structures service pack

We recommend that you use the latest Tekla Structures service pack. In certain situations, you might need to revert to an earlier Tekla Structures service pack, or the related Tekla Structures version, even though you are already using a newer service pack.

TIP To easily revert to the previous installed service pack, go to Windows Control Panel > Recovery > Open System Restore. Search for the service pack version in the list and revert back to it.

If you want to use an earlier service pack than the previous installed service pack, follow these steps:

1. Uninstall the current Tekla Structures service pack software in Windows Control Panel.

2. Uninstall the related environments in Windows Control Panel.

3. Install the Tekla Structures service pack software.

a. Download the software installation file of the service pack from Tekla Downloads.
b. Double-click the installation file to run the installation.
c. Follow the steps in the installation wizard to complete the installation.

4. Install the Tekla Structures environments that you use.
   The latest environments are in Tekla Downloads.
   a. Download the environment installation files related to the service pack that you have installed.
   b. Double-click the installation file to run the installation.
   c. Follow the steps in the installation wizard to complete the installation.
Upgrade Tekla Structures to a new version

You can have many Tekla Structures versions on your computer. When you install a new version, you do not need to uninstall the older versions and you can keep using them.

Service packs are cumulative updates. They replace the previous service pack installation for the same Tekla Structures version.

NOTE We recommend that you complete any models you are already working on using your current version of Tekla Structures. After you save a model in the new version, you can no longer open it in previous versions.

You can download the installation packages from the Tekla Downloads service. Complete the upgrade in this general order. For detailed instructions, follow the links in the text.

1. **Install Tekla Structures (page 15).**
   You can have many Tekla Structures versions and environments on your computer. When you install and start using a new version, you do not need to uninstall the older versions.

2. **Copy personal settings to a new Tekla Structures version (page 23).**
   You can use the Migration Wizard (page 23) tool to copy some of the personal settings to the new version. You can skip the copying if you do not want to copy the settings, or if you want to manually copy the settings from some other Tekla Structures version than suggested in Migration Wizard.

3. **Transfer customized information to a new Tekla Structures version (page 24).**
   In the new Tekla Structures version, you can use the information you have customized in the previous version.
   We strongly recommend that you create project and firm folders, and store the files you customize in these folders. Tekla Structures does not
replace the files in project and firm folders when you install a new version. For more information, see Create project and firm folders.

If you do not use project and firm folders, you must transfer the customized information to the new version manually.

6.1 Copy personal settings to a new Tekla Structures version

You can copy some personal settings from an older Tekla Structures version to a newer Tekla Structures version using the Migration Wizard tool.

The Migration Wizard starts automatically when you start a new version of Tekla Structures for the first time.

The Migration Wizard shows the version number from which the settings are copied and the version number to which the settings are copied. You can select which settings are copied. You can copy any of the following settings and values:

- .tsep extensions that you imported to the Applications & components catalog in the previous version
- Settings files:
  - User files
  - Option files
- Registry values, such as:
  - Toolbars
  - Dialog boxes
  - Actions
  - General options
  - User menu and work areas

1. Start the new Tekla Structures version or start the Migration Wizard manually.

   To start the Migration Wizard manually, double-click the MigrationWizard.exe file in the ..\Tekla Structures\<version>\bin\applications\Tekla\Migrations folder.

2. In the Migration Wizard, click Next to start copying the settings.

3. Select the settings that you want to copy, then click Next.

4. Check that you have selected the correct settings.
5. Click **Copy**.

If you copied `.tsep` extensions, restart Tekla Structures to install the extensions.

**See also**

*Upgrade Tekla Structures to a new version (page 22)*

**6.2 Transfer customized information to a new Tekla Structures version**

You can transfer customized information from a previous Tekla Structures version to the new Tekla Structures version.

If your organization uses project and firm folders to store customized files for models, the files are automatically transferred to the new Tekla Structures version.

If your organization does not use project and firm folders, you must manually transfer the files to the new Tekla Structures version. For more information, see Reuse settings from previous projects or .

You can also copy some information automatically to the new version using the **Migration Wizard (page 23)** tool.
Use Tekla Structures on different computers

Your Tekla Structures subscription is connected to your Trimble Identity, not to a specific computer. You can sign in to your Trimble Identity to use Tekla Structures on any computer, but you can only use it on one computer at a time.

**NOTE** If you have a Tekla Structures trial subscription, you can only use Tekla Structures on the computer where you activated the subscription.

If your Tekla Structures subscription license is reserved on the computer where you are currently using Tekla Structures, you must release your subscription license before you can use Tekla Structures on a different computer.

If you frequently use Tekla Structures on different computers, we recommend that you set the value of the advanced option to `FALSE` so that your subscription license is not automatically kept reserved when you close Tekla Structures.

### 7.1 Release your Tekla Structures subscription license

To use Tekla Structures on a different computer, release your subscription license on the computer where it is currently reserved.

**NOTE** If you use more than one version of Tekla Structures, you must release your subscription license in all versions where it is reserved.

1. Start Tekla Structures, then open a model.
2. Close Tekla Structures and clear the **Yes, keep the license** check box in the closing confirmation message dialog box.

For instructions to release your subscription license in older versions, see Tekla Structures product bulletin: Subscription license not released after closing Tekla Structures.

You can now start Tekla Structures on a different computer.
Work offline with a Tekla Structures subscription

You can keep your Tekla Structures subscription license reserved if you want to use Tekla Structures offline.

You can only use Tekla Structures on one computer at a time with the same subscription.

You can use Tekla Structures offline for a maximum of 3 days. At the end of the offline time, you can no longer use Tekla Structures offline. If you have a model open, you can save it before closing Tekla Structures.

NOTE If you use an on-premises license server to access your Diamond, Graphite, or Carbon subscription without an internet connection, you cannot reserve your subscription license for offline use.

8.1 Use Tekla Structures offline

1. Start Tekla Structures, then open a model.
2. Close Tekla Structures.
3. In the closing confirmation message dialog box, ensure that Yes, keep the license is selected.

Your Tekla Structures subscription license is reserved on your computer. You can use Tekla Structures offline for a maximum of 3 days.

8.2 If the connection to the Tekla subscription service is lost

If the connection to the Tekla subscription service is lost, a notification is shown. Tekla Structures continues to function in offline mode for the amount of time shown in the notification.
The maximum offline time is 3 days.

The possible cause might be one of the following:

- No internet connection is available, or there are other connectivity problems in your network.
- Tekla subscription service is experiencing a disruption. For more information, check the status page.
- Trimble Identity service is experiencing a disruption. For more information, check the status page.

Tekla Structures tries to reconnect automatically. You can also try to reconnect manually by clicking **Try reconnecting now**. If the button is dimmed, it is not possible to reconnect at the moment.

- The button might be dimmed if your subscription license is reserved. Release your subscription license and start Tekla Structures again.
- Otherwise, wait until the button is available and try again.
When you no longer need a version of Tekla Structures or its related components, you can uninstall it to save space on the computer.

**TIP** You can have many Tekla Structures versions on your computer. It is not necessary to uninstall old Tekla Structures versions when you install a new Tekla Structures version.

Before you uninstall, make sure that you release any subscription licenses that are reserved when you exit Tekla Structures.

### 9.1 Uninstall Tekla Structures

You can optionally uninstall Tekla Structures versions that you no longer use to save space on the computer.

You can also uninstall Tekla Structures environments separately from the main Tekla Structures app.

1. Go to the Windows Control Panel --> Programs --> Programs and Features.
2. Select a component, click **Uninstall** and follow the prompts. Follow this order:
   a. Uninstall the Tekla Structures environments.
   b. Uninstall the main Tekla Structures app.
   c. If installed, uninstall the offline help package.
   d. If needed, delete the additional files or extensions related to Tekla Structures manually from the installation folders (page 15).
3. If you no longer want to run any version of Tekla Structures on the computer, uninstall the Tekla Warehouse service and content components.
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