



# Tekla Structures 2022

## Install and license Tekla Structures

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# 1 Installation and licensing workflow

To use Tekla Structures, you must have a Tekla Structures subscription or a legacy on-premises license.

For legacy on-premises licensing, you must install additional tools. These tools are not necessary when you use Tekla Structures subscriptions.

## 1.1 Tekla Structures license types

There are two types of licenses: Tekla Structures subscriptions and legacy on-premises licenses.

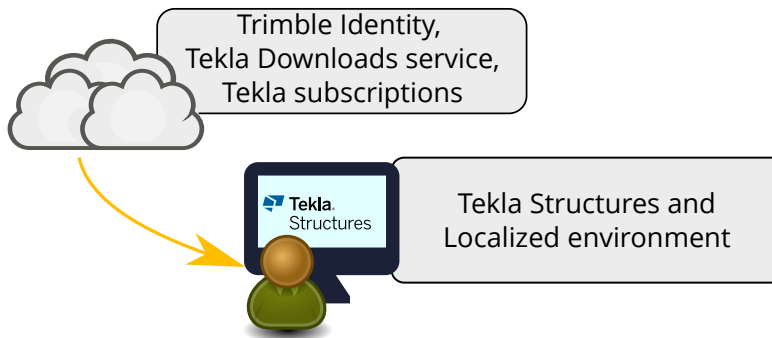
A Tekla Structures subscription is connected to your Trimble Identity. The subscription is delivered directly to the [Tekla Online Admin tool](#), where your company's Tekla Online account administrators can assign the subscriptions to individual users. When Tekla Structures starts, you sign in to Trimble's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

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.

If you have legacy on-premises or on-demand licenses, you must install a license server on your computer or on a separate server in your internal network. Tekla Structures connects to your local license server to check your license.

## 1.2 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 2023 hardware recommendations.



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 \(page 19\)](#) 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.
4. After you have completed the Tekla Structures and environment installation:
  - If you have a Tekla Structures subscription, 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.

- If you have legacy on-premises licenses, install the license server software on your computer and activate your license before starting Tekla Structures.

For details, see [Tekla Structures legacy on-premises licensing \(page 34\)](#).

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](#).

### 1.3 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](#).

### 1.4 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 \(page 19\)](#).
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.

# 2 Tekla Structures 2023 hardware recommendations

## 2.1 Operating system requirements

Tekla Structures 2023 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.

## 2.2 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.

	<b>Recommendation</b>	<b>Best performance</b>
Operating system	Windows 11 or Windows 10 (64-bit)	Windows 11 or Windows 10 (64 bit)
Memory	16+ GB	32+ GB
Hard disk	1 TB, SSD	2TB, PCIe NVMe M.2 SSD
Processor	Intel® Core™ i7 CPU 3 GHz or higher, or equivalent AMD	Intel® Core™ i9 CPU 4 GHz or higher, or equivalent AMD
Graphics card*	Two monitor support, such as NVIDIA GeForce RTX 3060/3070	Two monitor support, such as RTX 3000 -series (3080/3090) or newer
Monitors	Two 27 inch 2560x1440	43 inch 4K or two 30 inch 2560x1600
Mouse**	3-button wheel mouse	Cordless 3-button wheel mouse and a 3Dconnexion SpacePilot
Backup equipment	External hard drive	External hard drive with scheduled backups
Network adapter	100 Mbit/s IPv4 or IPv6	1 Gbit/s IPv4 or IPv6

*\*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](#).*

## 2.3 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.

## 2.4 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](#).

## 2.5 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](#).

## 2.6 Tekla License Server for legacy on-premises licensing

Tekla License Server is required for legacy on-premises licensing. If you have a Tekla Online subscription, Tekla License Server is not required.

- We recommend that you upgrade to the latest available license server version. You can install the license server on any computer that meets the Tekla Structures hardware recommendations.
- If the license server is installed on a different computer, there are additional considerations for the hardware and operating system. See the separate [Tekla License Server 2022 hardware recommendations \(page 13\)](#).
- If you use different versions of Tekla Structures, check the license server compatibility before you upgrade your license server.

## 2.7 Tekla Structures multi-user server

If you use the Tekla Structures multi-user server, we recommend that you always install the latest available version.

For more information, see [Tekla Structures multi-user server 2.5.0 hardware recommendations \(page 16\)](#).

## 2.8 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.

## 2.9 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.

## 2.10 Tekla License Server 2022 hardware recommendations

If you have legacy on-premises licenses, you must install a license server on your own hardware to use them.

The information on this page is not valid for Tekla subscriptions.

We recommend that you always upgrade your on-premises license server to the newest available version. Each license server version is compatible with several versions of Tekla Structures. For installation instructions, see [Installing Tekla on-premises license server](#).

## Operating system

The FlexNet licensing system for Tekla Structures runs on these operating systems.

- Microsoft Windows 11
- Microsoft Windows 10
- Microsoft Windows Server 2022
- Microsoft Windows Server 2019

Both 32-bit and 64-bit operating systems are supported.

It is a best practice to install Tekla License Server on a server-based OS. If there is no local area network in your company, you can install the license server on each computer that Tekla Structures is running on, and activate one license on each computer.

## License server hardware

The server that is used as Tekla License Server does not have to be very efficient or have maximum performance. The reliability of the server and the network connection are more important than performance.

Users cannot run Tekla Structures without access to a subscription or license. To minimize the risk of disrupting the work of your users, we recommend running any license server that is used by multiple users on hardware and an operating system intended for servers. Servers are designed to operate properly continuously without rebooting, unlike workstations.

## Virtualization platforms

These virtual machine platforms are supported for Tekla License Server.

- Citrix XenServer 8.0
- everRun 7.8
- Microsoft Windows 10 Hyper-V
- Microsoft Windows Server 2019 Hyper-V
- Oracle Virtual Box 6.1
- Parallels Desktop 15.1.2 for macOS 10.15.4
- QEMU-KVM (Host OS: CentOS 8)
  - Hypervisor: qemu-kvm-ev-4.2.0
  - Hypervisor Services: libvirt-daemon-kvm-6.0.0
  - Virtual Machine Manager: vmm v2.2.1

- VMware ESXi 6.5 and 6.7
- VMware Workstation 16.1.0

Linux or Unix based servers are not supported. Directly deploying the Tekla License Server in cloud environments is not supported.

## Backups

If the activated licenses are deleted or if the license server computer suffers a hardware failure, you need backups to recover your licenses.

Keep your on-premises licenses safe. Keep a copy of the license entitlement files that are sent to you by email. Back up your activated licenses to a separate backup location.

If activated licenses are lost and no backups are available, replacement licenses can be ordered according to the terms of the end-user license agreement.

## Internet connection

Your license server contacts Trimble's activation server when you activate, deactivate, or repair licenses. Users who work outside of the office might also need to connect to the license server.

Direct communication from the license server computer to the internet must be allowed while your license server contacts Trimble's activation server. The activation communication is done using simple object access protocol (SOAP) over HTTPS on TCP port 443. Your firewall should not block any incoming or outgoing information during the activation. To allow the activation communication, use the activation server address in your firewall settings: <https://activate.tekla.com:443/flexnet/services/ActivationService?wsdl>

The computers where users use Tekla Structures connect directly to the license server for on-premises licenses. If users work outside the office, they must be able to connect to the license server remotely, such as through a VPN, or borrow a license while they are connected to the license server in the office network. If you also have Tekla Structures subscriptions, users outside your office network can use the subscriptions without additional setup. Tekla Structures subscriptions are provisioned to the users directly from Trimble's cloud service.

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

## Other infrastructure

Tekla Structures must be able to contact the license server to reserve a license when it starts up. Your firewall must allow the communication between the server computer and the computers where users use Tekla Structures.

You must allow the applications `tekla.exe` and `lmgrd.exe` to operate through the firewall. The applications are located in the `..\Tekla\License\Server` folder.

Do not change the MAC address of the network adapter on the computer that is running the license server. If you are using a virtual environment, ensure that you are using static MAC addressing instead of dynamic MAC addressing.

The computer running the license server must have a static IP address.

## 2.11 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 2022
- 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.

# 3 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](#).

# 4 Tekla Structures installation

Installation packages are available for download in [Tekla Downloads](#). You can directly install the latest service pack.

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 \(page 25\)](#).

Tekla Structures software and environments are available as separate installation packages. The software installation package always contains a blank project environment that includes generic content. Other Tekla Structures environments are available as separate installation files. Environments are region or company-specific settings and information that are predefined in Tekla Structures, or that are defined by the user. For installation prerequisites and recommended hardware, see [Tekla Structures 2023 hardware recommendations \(page 10\)](#).

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.

## 4.1 Install Tekla Structures

To use Tekla Structures, install the Tekla Structures app and the Tekla Structures environments that you want to use.

If you are using legacy on-premises licensing, you must meet the following requirements before you can start Tekla Structures:

- The Tekla on-premises license server must be installed, either on your own computer or on another computer.
- Your Tekla Structures on-premises license must be activated.

- Tekla Structures must be connected to the Tekla on-premises license server.

For details, see [Tekla Structures on-premises licensing \(page 34\)](#).

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.

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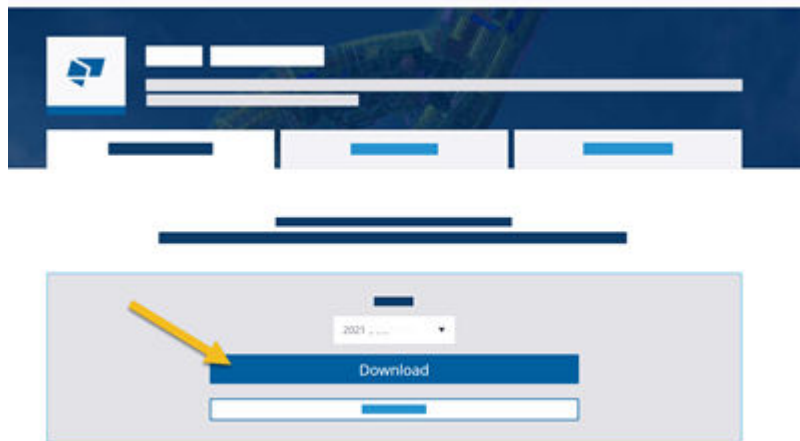
**NOTE** You must have administrator rights on the computer where you are installing the Tekla Structures app.

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1. Install the Tekla Structures app.

- a. 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.



- b. Double-click the installation file to run the installation.
- c. Follow the steps in the installation wizard to complete the installation.

You can select the installation folder and the model folder.

2. Install the Tekla Structures environments.

If you do not install any environments before you start Tekla Structures, Tekla Structures prompts you to install an environment before continuing the start-up. You can later install as many environments as you want for the Tekla Structures version that you are using.

- a. Download the 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.

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.

In the installation wizard, you can specify that the environment setting files (.tsep) are installed when running the environment installation wizard. If you do not install the environment setting files when running the environment installation wizard, the files are installed to the environment folder when you start Tekla Structures after the installation.

If you are installing several environments for the first time, we recommend that you do not select to install the environment setting files (.tsep) when running the environment installation wizard. Some of the .tsep packages are used in more than one environment and the same version of a .tsep package is only installed once.

When Tekla Structures starts, a dialog box that shows the installation progress open. If you cancel the installation in this dialog box, the environment setting files are still installed but the installation of extensions is canceled. Tekla Structures installs the extensions the next time it starts.

3. To start Tekla Structures, select it from the Windows Start menu or double-click the desktop icon.

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](#).

## 4.2 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 and extensions 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**.

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**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.

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# 5 Work offline with a Tekla Structures subscription

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

It is not possible to use Tekla Structures simultaneously on different computers 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.

## 5.1 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 **Keep this license reserved on this device** is selected.

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

## 5.2 Release your Tekla Structures subscription license seat

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

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

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If you frequently use Tekla Structures on different computers, we recommend that you use the `XS_DEFAULT_KEEP_ONLINE_LICENSE_CHECKBOX` advanced option to set the **Keep this license reserved on this device** checkbox to never be selected by default.

1. Start Tekla Structures, then open a model.
2. Release your subscription license seat in one of these ways, depending on the Tekla Structures version:
  - In version 2021 or newer, close Tekla Structures and clear the **Keep this license reserved on this device** checkbox in the closing confirmation message dialog box.
  - In versions older than 2021, click your user name, clear the **Stay signed in** checkbox, then close Tekla Structures.

### 5.3 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 seat is reserved. Release your subscription license seat and start Tekla Structures again.
- Otherwise, wait until the button is available and try again.

# 6 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 need to be logged in with administrator rights to install the software on your computer.

---

## 6.1 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.

Note that 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 you use if updates are available.

Note that 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.

You can select in the installation wizard that the environment setting files (.tsep) are installed when running the environment installation wizard.

If you do not select to do this, the environment setting files are installed to the environment folder when you start Tekla Structures after the installation. Tekla Structures opens a dialog box that shows the installation progress.

## 6.2 Install an earlier Tekla Structures service pack

We recommend that you use the latest Tekla Structures service pack. In certain situations, you may 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, follow the steps below:

1. Uninstall the Tekla Structures service pack software you are now using 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.

You can select the installation folder and the model folder.

4. Install the Tekla Structures environments 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.

You can select in the installation wizard that the environment setting files (.tsep) are installed when running the environment installation wizard.

If you do not select to do this, the environment setting files are installed to the environment folder when you start Tekla Structures after the installation. Tekla Structures opens a dialog box that shows the installation progress.

# 7 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. Once you save a model in the new version, you cannot open it in the previous versions anymore.

---

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. Depending on your license type, you might need to renew your license.
  - If you have a Tekla Structures subscription, your subscription is valid until the end of the current contract period. You do not need to renew the subscription.
  - If you have a legacy on-premises license:
    - a. [Update the Tekla on-premises license server \(page 29\)](#). The updated version replaces the existing version that you have installed.
    - b. Renew your licenses as explained in [Renew a Tekla on-premises license \(page 30\)](#).

The renewed licenses can be used with the version indicated on the license and any previous versions that are compatible with your installed license server version.

2. [Install Tekla Structures \(page 19\)](#).

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.

3. [Copy personal settings to a new Tekla Structures version \(page 32\)](#).

You can use the [Migration Wizard \(page 32\)](#) 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 copy the settings from some other Tekla Structures version than suggested in Migration Wizard.

4. [Transfer customized information to a new Tekla Structures version \(page 33\)](#).

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.

## 7.1 Update the Tekla on-premises license server

We recommend that you have the newest version of Tekla on-premises license server software installed on the Tekla on-premises license server. New versions of Tekla Structures do not always work at all with older on-premises license server versions.

You can use older versions of Tekla Structures with a newer version of the on-premises license server. In some older Tekla Structures versions, this requires that you have installed recent enough updates; for more information about the compatibility between Tekla Structures versions and Tekla on-premises license server versions, see [Hardware recommendations for Tekla license server \(page 13\)](#).

To update the Tekla license server:

1. Save the model that you are working with and close Tekla Structures before the server update.
2. Go to **Tekla Licensing** --> **LMTTOOLS** through the **Start** menu or **Start screen**, depending on your Windows operating system.

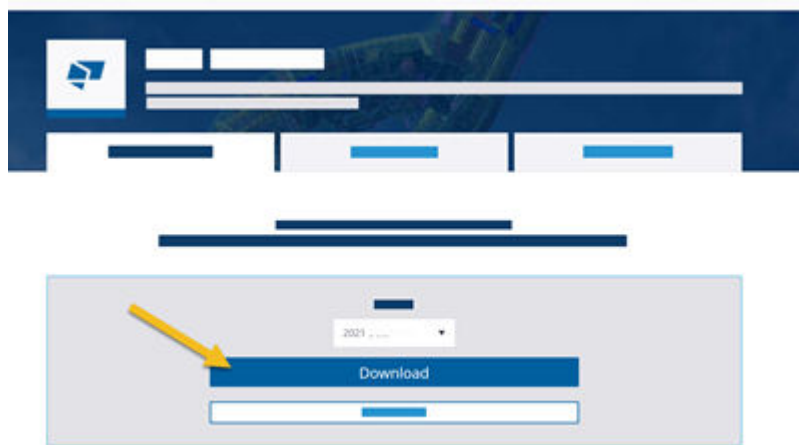
3. On the **Stop/Start/Reread** tab, click **Stop Server** to stop the Tekla on-premises license server and any other licensing services.

When you have completed installing the Tekla on-premises license server, you can restart the other licensing services.

4. Backup any files you have modified in the `C:\Tekla\License\Server` folder.

You do not need to back up `tekla.lic` or `tekla.opt`, because the installer will not changes these files.

5. Download the latest version of the Tekla on-premises license server and the optional Tekla License Borrow Tool (if you use it) from [Tekla Downloads](#). At the site, click **Download** for a guided experience that ensures you have all necessary files.



6. Install the downloaded on-premises license server with administrator rights using the automatic installation for normal setup. Follow the instructions displayed on the screen.

If the installation fails or the server does not start after installation, try reinstalling with the local firewall and antispyware/antivirus protection disabled.

7. If you use the Tekla License Borrow Tool, install the new version of the tool on workstations that need it.

## 7.2 Renew a Tekla on-premises license

License renewal means changing the details on an existing on-premises license, such as updating the highest allowed software version or extending the validity period of a temporary license. You deactivate the current on-premises license and then activate it again with a new license entitlement certificate that contains the updated information.

When you receive your renewed on-premises license, you must deactivate the existing license and then activate the new version of the license. Two versions of the same license cannot be active at the same time. License deactivation and activation is done on License server (which can also be the same computer on which Tekla Structures is installed) and requires an internet connection.

---

**NOTE** Before you deactivate on-premises licenses, ensure that the licenses are not in use or borrowed. To deactivate the licenses, users must return any borrowed licenses as explained in .

---

To renew a license:

1. Rename your previous entitlement certificate file in the on-premises license server installation folder (by default `C:\Tekla\License\Server`) from `EntitlementCertificate.html` to `EntitlementCertificate-OLD.html`.
2. Save the entitlement certificate file to the on-premises license server installation folder.

The person in your organization who has made the license purchase, or someone named as the contact person, receives a new `EntitlementCertificate.html` entitlement certificate by e-mail as an attachment.


3. Go to **Tekla Licensing** --> **Tekla License Administration Tool** through the **Start** menu or **Start screen**, depending on your Windows operating system.
4. In the **Activated Licenses** area, select the **Deactivate** check box next to the on-premises license you want to deactivate.
5. Click the enabled **Deactivate** button.

When deactivation is complete, the License administration tool shows a confirmation message.

---

**NOTE** Do not use automatic notification if you are using some other FlexNet license and license server administration tool, such as FlexNet Manager. To notify the license server about license changes manually, see [Activate on-premises licenses](#).

---

6. Make sure the automatic license server notification is enabled. Check the status on the  **Notify Server** button in the toolbar and click the button if necessary.
7. Click **Open** and open the `EntitlementCertificate.html` file that contains the license. The license information is displayed in the **Entitled Licenses** area.

Entitled Licenses									
Activate	Quantity	Order ID	Activation ID	Description	Configuration	Version	Type	Start Date	Expiration Date
	1	Tekla HQ	04C1-3F1E-5...	FUD-C	Full	20		1.5.2015	31.5.2015
	2	Tekla HQ	4B73-A2E9-...	STD-C	SteelDetailing	20		1.5.2015	31.5.2015

- Click the **Activate** cell and select the number of licenses to activate.

Entitled Licenses									
Activate	Quantity	Order ID	Activation ID	Description	Configuration	Version	Type	Start Date	Expiration Date
	1	Tekla HQ	04C1-3F1E-5...	FUD-C	Full	20		1.5.2015	31.5.2015
1	2	Tekla HQ	4B73-A2E9-...	STD-C	SteelDetailing	20		1.5.2015	31.5.2015

- Click the **Activate** button.

Your license server contacts the license activation server at Trimble Solutions.

The activated licenses are displayed in the **Activated Licenses** area.

We recommend that you back up the trusted storage (`..\ProgramData\FLEXnet\`) in a safe place away from the computer running the license server. Backups can help you restore your licenses on the same server if active licenses are accidentally erased.

## 7.3 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 opens automatically when you start a new version of Tekla Structures for the first time.

---

**NOTE** You can also start the Migration Wizard manually by double-clicking the `MigrationWizard.exe` file in the `..\Tekla Structures\<version>\bin\applications\Tekla\Migrations` folder.

---

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:

- `user.ini` file
- Registry values, such as:
  - Toolbars
  - Dialog boxes

- General options

The Migration Wizard does not copy the environment `.tsep` files that are installed by the environment installers.

1. Start the new Tekla Structures version.
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**.

#### See also

[Upgrade Tekla Structures to a new version \(page 28\)](#)

## 7.4 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.

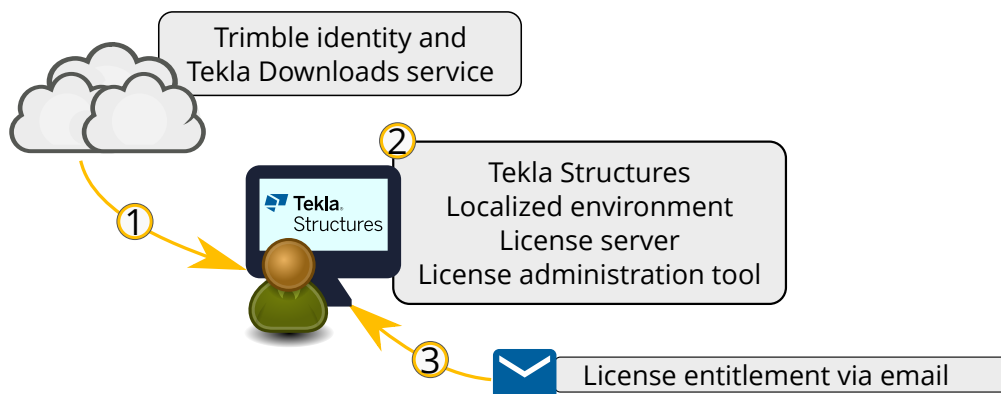
If your organization does not use project and firm folders, you must manually transfer the files to the new Tekla Structures version. For more information, see [Reuse settings from previous projects](#) or [Transfer customized information to a new Tekla Structures version](#).

You can also copy some information automatically to the new version using the [Migration Wizard \(page 32\)](#) tool.

# 8 Tekla Structures legacy on-premises licensing

The information on this page is not valid for Tekla subscriptions.

Legacy on-premises licenses are an alternative to the default Tekla Structures subscription. The type of subscription or license is determined when you purchase a license, so you cannot change between on-premises licenses and subscriptions yourself. You activate on-premises licenses on a license server that you install on your own computer hardware. Tekla Structures installations for one or more users connect to the license server to reserve a license.



On-premises licensing setup follows this general workflow:

1. Install Tekla on-premises license server.
2. Save your on-premises license entitlement certificate.
3. Activate your on-premises licenses.
4. Connect Tekla Structures to the on-premises license server.

## Legacy on-premises licensing technology

With legacy on-premises licensing, Tekla Structures uses FlexNet (FlexNet Publisher License Management) licensing system by Flexera Software. We provide our own Tekla-specific tools for managing the licenses on top of the common FlexNet platform, replacing some of the standard tools that you might have encountered when using other software products that use FlexNet for licensing.

The license server software is compatible with several versions of Tekla Structures. To see which license server version to use with your current Tekla Structures version, see [Hardware recommendations for Tekla license server \(page 13\)](#). The licenses are also compatible with older versions of Tekla Structures in addition to the highest allowed version stated in the license. The license is sent to you attached in an email as an entitlement certificate HTML file.

---

**NOTE** Keep backup copies of your license entitlements in a safe place.

---

## Local licensing on your workstation

If there are few users in your organization and you do not need to share the same licenses between users, you can install a license server directly on each Tekla Structures workstation. When you activate a license on the local license server, Tekla Structures always uses that license and you can also start Tekla Structures offline without borrowing a license. For more information, see [Installation and licensing workflow \(page 5\)](#).

For organizations with many users, it is not optimal to install and manage a license server on each workstation because of the extra work involved, lack of visibility and inability to flexibly share licenses between users. In this situation, it is better to set up a central license server in your internal network.

---

**NOTE** When you set up the Tekla licensing system, you might also need to configure the firewall settings to be able to connect Tekla Structures to the on-premises license server. For more information about configuring the firewall, see [Allowing Tekla license server to operate through Windows Firewall](#).

If you have problems, see [Troubleshoot Tekla licensing](#) for more information.

---

## 8.1 Install Tekla on-premises license server

Install the Tekla on-premises license server.

If you are using other FlexNet licensing services, stop them before you install the Tekla on-premises license server. When you have completed installing the Tekla on-premises license server, you can restart the other licensing services.

1. To download the latest Tekla on-premises license server installation, go to [Tekla Downloads](#).

At the site, click **Download** for a guided experience that ensures that you have all necessary files.



To check the license server version to use, see [Hardware recommendations for Tekla 2020 license server \(page 13\)](#).

2. For standard setup, select **Automatic** and complete the installation.

Tekla license server is installed.

In automatic license server installation, the license server host name is automatically set to `27007@your_host_name`, where `27007` is the port and `your_host_name` is your computer name.

Automatic installation is recommended. Use the **Manual** installation only if you are an advanced user of FlexNet or Flexlm licensing, and you need to change something in the default installation, for example, the TCP/IP port. For more information, see [Install Tekla license server - manual installation](#).

## 8.2 Save your on-premises license entitlement certificate

Before you can transfer license rights from the Trimble Solutions license activation server to your license server, you must save the entitlement certificate.

On-premises licenses are delivered in the form of an entitlement certificate that is sent in an e-mail to the person in your organization who has made the license purchase, or to someone named as the contact person.

The entitlement certificate states the configurations, quantities and activation IDs of your Tekla Structures on-premise licenses. The entitlement certificates are not computer-specific:

- You can activate licenses from several entitlements on one license server.
  - You can activate licenses from one entitlement that contains several licenses on several license servers.
1. In your e-mail application, open the e-mail that contains the entitlement certificate.
  2. Download the entitlement certificate file `EntitlementCertificate.html` to the `..\Tekla\License\Server` folder.

## 8.3 Activate on-premises licenses

To use Tekla Structures, you must activate the on-premises licenses on the on-premises license server.

When you activate the licenses and notify the server, the license rights are transferred from the activation server at Trimble Solutions to the license server. Use the Tekla License Administration Tool to activate licenses.

---

**NOTE** Do not use the automatic license server notification functionality if you are using some other FlexNet license and license server administration tool, such as FlexNet Manager. To use manual notification, see Activate on-premises licenses using manual server notification.

---

1. Go to **Tekla Licensing** --> **Tekla License Administration Tool** through the **Start** menu or **Start screen**, depending on your Windows operating system.
2. Enable the automatic license server notification functionality by clicking the **Notify Server** button.
3. You saved your entitlement certificate in the `..\Tekla\License\Server` folder, and the licenses should now be listed in the **Entitled Licenses** area. If they are not listed, click **Open**, select `EntitlementCertificate.html`, and click **Open** again.
4. Select the number of licenses to activate.
5. Click **Activate**.

Your on-premises license server contacts the activation server at Trimble Solutions. The activated licenses are shown under the **Activated Licenses** area.

Next, you must connect Tekla Structures to the on-premises license server when you start Tekla Structures for the first time.

## 8.4 Connect Tekla Structures to the on-premises license server

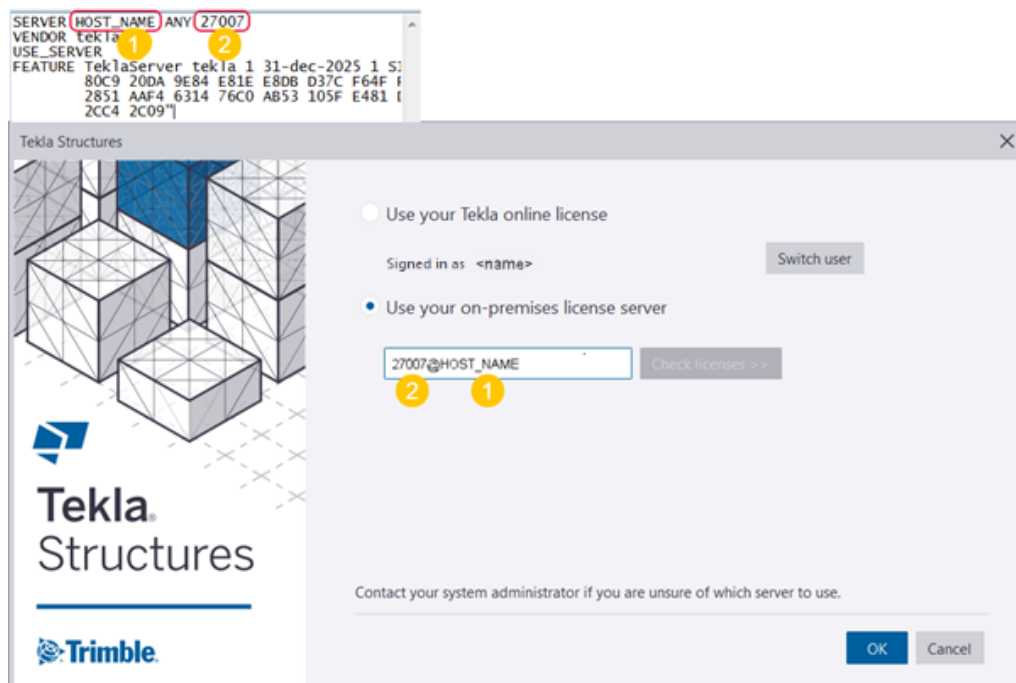
If the on-premises license server is installed on a different computer than Tekla Structures, connect Tekla Structures to the on-premises license server when you start Tekla Structures for the first time.

If you installed the on-premises license server on the same computer with Tekla Structures and successfully activated your license, the license is reserved automatically without any further action. The on-premises license server is always running in the background as a Windows service under the name Tekla Licensing Service.

If the on-premises license server is installed on a different computer, you must tell Tekla Structures the name of the on-premises license server computer in your internal network so that your computer can contact the on-premises license server computer.

1. Start Tekla Structures.
2. To connect Tekla Structures to the on-premises license server, enter the `port@hostname` information in the licensing dialog box, for example `27007@HOST_NAME`.

The host name and port must correspond to the host name and port found in the `tekla.lic` file on the server computer located at `.. \Tekla \License \Server`. The license server administrator informs users about the on-premises license server name and port number.



1. host

2. port

If there is more than one license server available with activated licenses, you can define a primary and a secondary server in the licensing dialog box by separating the servers with a semicolon as follows:

`27007@HOST_NAME_1;27007@HOST_NAME_2`

3. To start Tekla Structures, click **OK**.

# 9 Borrow on-premises licenses for Tekla Structures offline use

You can borrow an on-premises license from the license server when you work offline. The borrowed license is transferred from the on-premises license server to your computer, so it is not available for other users during the borrowing period.

The information on this page is not valid for Tekla subscriptions.

If you have an Tekla Structures subscription, you can [work offline with a Tekla Structures subscription \(page 23\)](#).

## 9.1 Install Tekla License Borrow Tool to borrow on-premises licenses

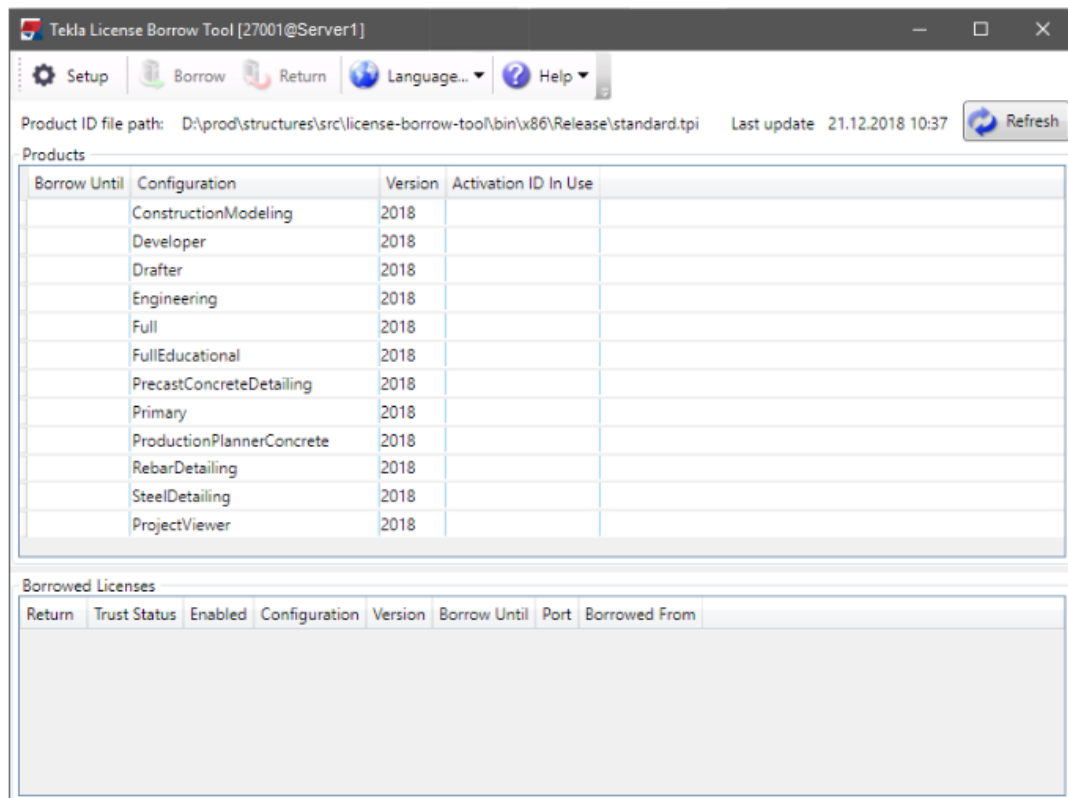
To borrow on-premises licenses, install and set up the Tekla License Borrow Tool.

1. To download the latest Tekla License Borrow Tool, go to [Tekla Downloads](#).

At the site, click **Download** for a guided experience that ensures you have all necessary files.



2. Go to **Tekla License Borrow** --> **Tekla License Borrow Tool** through the **Start** menu or **Start screen**, depending on your Windows operating system.
3. In the **Setup** dialog box, enter the port number and the hostname (computer name) of the license server in the **Server** box in the format `port@hostname`, for example, `27007@server_hostname`.  
Use the same port and host name as in the licensing dialog box when starting Tekla Structures.
4. Still in the **Setup** dialog box, click **Browse**, then select the product ID file.  
You can use the default product ID file (`standard.tpi`) or ask your administrator to send you a customized product ID file that contains only the configurations that you are allowed to use.
5. Click **OK**.  
The **Products** area in the Tekla License Borrow Tool is updated. Now you can borrow licenses.





## 9.2 Borrow a Tekla on-premises license

To borrow a license from the on-premises license server:




1. In Tekla License Borrow Tool, in the **Products** area, click the **Borrow Until** box and select the expiration date for the borrowing period from the calendar.

The maximum borrowing period is one month.

Products						
Borrow Until	Configuration	Version	Activation ID In Use	Start Date	Expiration Date	
15.11.2018 	SteelDetailing	2018		1.11.2018	30.11.2018	

2. Click the **Borrow** button.

The borrowing progress is displayed. After successful borrowing the **Borrowed Licenses** area shows the borrowed license.

Borrowed Licenses						
Return	Trust Status	Enabled	Configuration	Version	Borrow Until	Borrowed From
			SteelDetailing	2018	15.11.2018	Z-USERX

3. Disconnect your computer from the on-premises license server and start Tekla Structures with the borrowed license to ensure that the borrowing succeeded.

## 9.3 Return a borrowed Tekla on-premises license

Return the borrowed on-premises license when you do not need to use it anymore.

A borrowed on-premises license is automatically available on the on-premises license server one day after the expiration date. However, you need to return the expired on-premises license to the license server to update the **Borrowed Licenses** area in Tekla License Borrow Tool. You can return a borrowed on-premises license any time.

To return a borrowed license:

1. Connect your computer to the network where you can connect to the on-premises license server.
2. Close Tekla Structures.
3. Go to **Tekla License Borrow** --> **Tekla License Borrow Tool** through the **Start** menu or **Start screen**, depending on your Windows operating system.
4. Select the **Return** check box in the **Borrowed Licenses** area to select the license to return.
5. Click the **Return** button at the top.

After successful returning, the **Borrowed Licenses** area is updated.

# 10 Uninstall Tekla Structures

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 Tekla Structures, do one of the following depending on your license type:

- If you have a Tekla Structures subscription, sign out from Tekla Structures to release any subscription license seats that are reserved.
- If you have a legacy on-premises license, sign out from Tekla Structures, deactivate the license, and uninstall the on-premises license server. See *Deactivate licenses and uninstall on-premises license server*.

## 10.1 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.

The environment `.tsep` packages are uninstalled and the environment files are removed.

For more information about uninstalling `.tsep` packages, see *Install .tsep packages* in the *Manage Tekla Structures* guide.

- 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 \(page 19\)](#).
3. If you no longer want to run any version of Tekla Structures on the computer, uninstall these components that are not version-specific:
  - The Tekla Warehouse service and content components.
  - If you have a legacy on-premises license:
    - The Tekla License Borrow Tool.  
Return a borrowed on-premises license before you uninstall the license borrowing tool.
    - The Tekla License Administration Tool.
    - The Tekla license server.

## 10.2 Deactivate licenses and uninstall on-premises license server

Follow these instructions if you want to permanently remove the on-premises license server from your computer.

If you are upgrading to a new version on the same computer, see [Update the Tekla on-premises license server \(page 29\)](#) instead.

1. Make sure that all [borrowed licenses are returned \(page 40\)](#).
2. Start the Tekla License Administration Tool app with administrator rights. This tool is installed together with the Tekla license server and you can find it through the Windows **Start** menu on the computer that is hosting your license server.
3. In the **Tekla License Administration Tool** dialog box, go to the **Statistic** tab and ensure that no one is using the licenses.

License server statistics					
Configuration	Description	Total	In Use	Borrowed	Free
SteelDetailing	STD-C	1	0	0	1

**NOTE** Before you deactivate licenses, ensure that the licenses are not in use or borrowed. The borrowed licenses must be returned before they can be deactivated.

4. If you have not activated the automatic server notifications (the **Notify Server** option in **Tekla License Administration Tool**), you need to stop the license server manually in **LMTOOLS**:
  - a. Go to **Tekla Licensing** --> **LMTOOLS** through the **Start** menu or **Start screen**, depending on your Windows operating system. Start **LMTOOLS** with administrator rights.
  - b. On the **Service/License File** tab, ensure that **Configuration using services** and Tekla Licensing Service are selected.
  - c. Go to the **Start/Stop/Reread** tab and click **Stop Server**.
5. In **Tekla License Administration Tool**, go to the **Licenses** tab.

The **Activated Licenses** area lists the active licenses.

Activated Licenses										
Deactivate	Trust Status	Enabled	Quantity	Borrowed	Configuration	Version	Expiration Date	Type	Activation ID	Order ID
			1	0	SteelDetailing	20	31.5.2015	Enter...	4B73-A2E9-...	Tekla HQ

6. Select the **Deactivate** check box to select the license for deactivation.  
If you activated more than one license of the same type in one go, you cannot deactivate those licenses one by one, but you need to deactivate all of the licenses in one go.
7. The **Deactivate** button is activated, click it.
8. Go to the Windows **Services** snap-in and stop the Tekla Licensing Service.  
You can find the snap-in using the Windows start menu search.
9. Go to the Windows **Control Panel** --> **Programs** --> **Programs and Features**.
10. Select the Tekla license server and click **Uninstall**.  
If the license server uninstallation fails, uninstall the license server manually.

## 10.3 Uninstall an on-premises license server manually

Automatic Tekla license server installation can normally be uninstalled from the Control Panel.

If the automatic uninstallation cannot be performed, like in the case of manual installation, you need to uninstall the license server manually.

Before you start license server uninstallation, stop FlexNet licensing services and other licensing services.

To manually uninstall an on-premises license server:

1. Make sure that all [borrowed licenses are returned](#) (page 40).

2. Deactivate your licenses. For more information, see the deactivation steps in [Deactivate licenses and uninstall the on-premises license server \(page 44\)](#).
3. Go to **Tekla Licensing** --> **LMTTOOLS** through the **Start** menu or **Start screen**, depending on your Windows operating system.
4. Go to the **Service/License File tab** tab, select **Configuration using Services**, and ensure that Tekla Licensing Service is selected in the list.
5. Go to the **Start/Stop/Reread** tab and click **Stop Server** to stop the license server.
6. Go to the **Config Services** tab, ensure that Tekla Licensing Service is shown in the **Service name** box and then click **Remove Service**.
7. At the command prompt, enter the following command:  
`uninstallanchorservice.exe`
8. Uninstall Tekla license server from the Control Panel to complete the uninstallation.

The Tekla license server is uninstalled.

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