

Tekla Structures 2021

Install and license Tekla Structures

April 2021

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1 Installation and licensing workflow

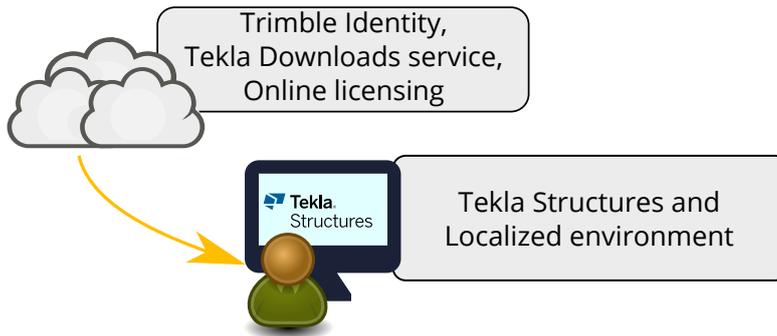
To use Tekla Structures, you need to have a license. The installation steps you need to take are different depending on the type of license you have: for on-premises licensing, you need to install additional tools, which are not necessary when using online licenses.

Tekla Structures license types

Tekla Structures cannot be used without a valid license. There are two types of licenses: online licenses and on-premises licenses.

- An online license is connected to your Trimble Identity. The license is delivered directly to the [Tekla Online Admin tool](#), where your company's Tekla Online account administrators can assign the online licenses to individual users. When Tekla Structures starts, you log in to Trimble's cloud to reserve your license.
 - For a free online learning license for Tekla Structures, visit the [Tekla Campus](#) site. Note that you are not allowed to use this configuration for commercial work.
- If you have on-premises or on-demand licenses, you need to 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.

If you manage your own installation of Tekla Structures



NOTE To ensure a good experience using our software, make sure your computer meets the [Tekla Structures 2021 hardware recommendations \(page 9\)](#).

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

1. Make sure you have your Trimble Identity set up:
 - a. 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 you have the correct access rights.

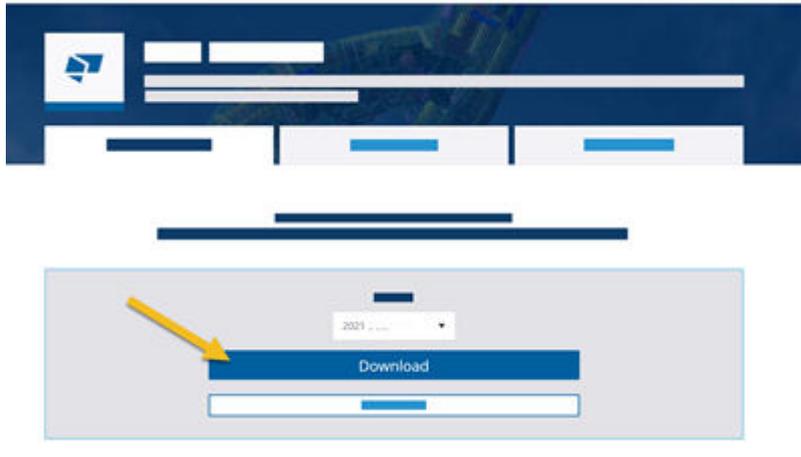
If you wish to use a different email address for this account, create the account using your invitation first and then change the email address.
 - b. If you have not received an invitation, you can create a new Trimble Identity to download the software. [Click here to create a new Trimble Identity](#).

To have access to your online licenses, you must be added to a Tekla Online organization group by your company's account administrator. For more information, see [Create your Trimble Identity \(page 17\)](#).
2. Go to your email, and click the activation link in the email you receive from `noreply_identity@mail.trimblepaas.com`.

[Activate Identity](#)

3. After confirming your email, **Log in** at <https://account.tekla.com/>, fill in all the required profile information, and click **Save**.
4. Download the installation package for Tekla Structures and at least one of the Tekla Structures environments [from Tekla Downloads](#). At the site, click

Download for a guided experience that ensures you have all necessary files.



5. Install the software:
 - a. Run the Tekla Structures installer and make sure the installation finishes successfully.

See [Install the Tekla Structures software \(page 21\)](#) if you need more detailed instructions.
 - b. Run the environment installer(s).

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

After you have completed the Tekla Structures and environment installation:

1. If you have an online license, you can now start Tekla Structures and select the default **Use your Tekla online license** licensing option.

After you log in, you can select from the licensed configurations that have been activated for you. Licenses 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 licenses, you can manage them in the [Admin tool](#).

For more information on the Admin tool and online licenses, see [Manage Trimble Identities and Tekla Online licenses](#).
2. If you have on-premises licenses, install the license server software on your computer and activate your license before starting Tekla Structures.

For details, see [Tekla Structures on-premises licensing \(page 38\)](#).

3. 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.](#)

If someone manages Tekla Structures for you

If your organization has a Tekla Structures administrator (IT administrator or main user), you should follow their instructions for installation and licensing. You may still need to consider the following points:

- You need an account to access Tekla online services and online licenses. If your company's administrator has not invited you to your organization and assigned online licenses to you, ask to join so that you have access to all Tekla online services and licenses:

[Create your Trimble Identity \(page 17\)](#)

- In most cases, your company's Tekla Structures administrator will prepare a customized installation package for you or install 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.](#)

If you manage Tekla Structures for other users

The general workflow for a new Tekla Structures deployment can go for example like this:

1. Make sure you have your Trimble Identity set up. For instructions, see [Create your Trimble Identity \(page 17\)](#).
2. Install Tekla Structures for your own use and start customizing it for your organization. See [Install the Tekla Structures software \(page 21\)](#).
3. If you are responsible for managing Tekla Structures users and online licenses, add users to your organization group in the Tekla Online [Admin tool](#) to give them full access to Tekla online services and the necessary online licenses.

For more information on the Admin tool and online licenses, see [Manage Trimble Identities and Tekla Online licenses](#).

4. Deploy Tekla Structures to the users in your organization.
5. Continue developing your organization's customizations and redeploy as needed.

For administrator instructions, see the [Manage Tekla Structures PDF](#).

2 Tekla Structures 2021 hardware recommendations

Operating system requirements

Tekla Structures 2021 runs on the following operating systems:

- 64-bit Windows 10
- 64-bit Windows 8.1

Other operating systems are not supported.

Tekla Structures can be used with application and desktop virtualization. For more information, [visit Tekla User Assistance](#) online.

Recommended hardware for Tekla Structures workstations

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

These hardware recommendations are based on proven set-ups that are used in testing Tekla Structures. Other set-ups can be used if they are more optimal for your intended use. Various comparisons are available on the internet to evaluate other hardware against our recommended setups (e.g., [here for GPUs](#) and [here for CPUs](#)).

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

NOTE Tekla Structures does not support Itanium processors.

	Recommendation	Best performance
Operating system	Windows 10 (64-bit)	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	Intel® Core™ i9 CPU 4+ GHz

	Recommendation	Best performance
Graphics card*	Two monitor support e.g. NVIDIA GeForce RTX 2060/2080	Two monitor support e.g. nVidia RTX 3000 - series (3080/3090) or newer
Monitor(s)	Two 27" 2560x1440	43" 4K or two 30" 2560x1600
Mouse**	3-button wheel mouse, optical	3-button wheel mouse, cordless & optical + 3Dconnexion SpacePilot
Backup equipment	External hard drive	External hard drive with scheduled backups
Network adapter (multi- user funct.)	100 Mbit/s IPv4 or IPv6	1 Gbit/s IPv4 or IPv6

**Tekla Structures rendering can use DirectX or OpenGL technology. The DirectX rendering mode is better optimized for modern graphics cards, and you should prioritize DirectX performance when deciding on a graphics card. We do not have resources to test all cards on the market, so we have chosen cards based on the NVIDIA graphics processor to be our test platform.*

***A 3-button wheel mouse is required in all cases (to be able to finish some commands, and to zoom, pan, and rotate). Tekla Structures also supports 3D mice provided by 3Dconnexion to be used in tandem with a regular mouse to enhance zooming, panning and rotating. To use a 3D mouse, install the 3Dconnexion Device extension from [Tekla Warehouse](#).*

Graphics card configuration

Make sure 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 in recent Windows versions](#). This is especially important on laptop computers, which may be configured to emphasize power saving. Many systems default Tekla Structures to use a less powerful integrated graphics processor 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 also 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 make sure the update does not introduce problems in the 3D views in Tekla Structures.

- Tekla Structures includes two alternative rendering engines: one based on OpenGL and one based on DirectX. Microsoft Windows includes support for both technologies.

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 DirectX graphics performance of your setup and compare it to statistics from other users. For more information and the statistics, see [the TeklaMark support article](#).

We also provide an application called Steelmark for testing and evaluating graphics cards for use with the Tekla Structures OpenGL rendering engine. [Download it from Tekla Warehouse](#).

Requirements for connecting to Tekla Online services

Tekla Online services complement the Tekla software products with 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](#).

Tekla License Server

Tekla License Server is required for on-premises licensing.

- We recommend that you upgrade to the latest available license server version. You can always 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 2020 hardware recommendations \(page 12\)](#).
- If you use different versions of Tekla Structures, check the license server compatibility before you upgrade your license server.

Tekla Structures multi-user server

If you use the Tekla Structures multi-user server, we recommend that you always install the latest available version. At the time of writing, this is version 2.5.0.

For more information, see [Tekla Structures multi-user server 2.5.0 hardware recommendations \(page 15\)](#).

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.

Additional necessary software components

Tekla Structures needs the following redistributable packages that are automatically installed during the Tekla Structures software installation if they, or newer versions of the packages, do not exist on your computer:

- Microsoft .NET Framework 4.7.2
- Microsoft Visual C++ 2010 Redistributable (x64) 10.0.40219
- Microsoft Visual C++ 2010 Redistributable (x86) 10.0.40219
- Microsoft Visual C++ 2013 Redistributable (x64) 12.0.40649
- Microsoft Visual C++ 2013 Redistributable (x86) 12.0.40649
- Microsoft Visual C++ 2015 Redistributable (x64) 14.0.23026
- Microsoft Visual C++ 2015 Redistributable (x86) 14.0.23026

If your organization installs Tekla Structures centrally using .msi packages, it may be necessary to download the required .NET Framework and Microsoft Visual C++ Redistributable components from Microsoft's web site and install them separately.

2.1 Tekla License Server 2020 hardware recommendations

The information on this page is not valid for online licenses.

If you have Tekla Structures on-premises licenses, you will need to install a license server on your own hardware to use them. 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. See the table at the bottom of this page for information on which license server versions are compatible with previous Tekla Structures versions.

Operating system

The FlexNet licensing system for Tekla Structures runs on the following operating systems:

- Microsoft Windows 10
- Microsoft Windows Server 2016
- 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. Reliability of the server and the network connection are much more important.

You cannot run Tekla Structures without access to a license. To minimize the risk of disrupting the work of your users, we recommend that you run any on-premises license server used by multiple users on proper server hardware and server operating system. Servers are designed to operate properly for a longer time period without rebooting as often as normal workstations.

Virtualization platforms

The supported virtual machine platforms for Tekla License Server are:

- Citrix XenServer 7.6
- Microsoft Windows 10 Hyper-V
- Microsoft Windows Server 2016 Hyper-V
- Microsoft Windows Server 2019 Hyper-V
- Oracle VirtualBox 5.2.18
- Parallels Desktop 14.1.0 for MAC 10.14
- QEMU-KVM (Host OS: CentOS 7.5)
 - Hypervisor: qemu-kvm-ev-2.10.0
 - Hypervisor Services: libvirt-daemon-kvm-3.9.0-14
 - Virtual Machine Manager: vmm v1.4.3
- VMware ESXi 6.5 and 6.7
- VMware Workstation 14.1.1

Linux or Unix based servers are not supported. Cloud environments are not supported.

Backups

Keep your on-premises licenses safe. Make sure to store the license entitlement file(s) sent to you over email. Back up your activated licenses to a separate backup location. If the activated licenses are deleted or if the license

server computer suffers a hardware failure, you will need the backups to recover your licenses.

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

Internet connection

You need to have an Internet connection in order to activate, deactivate or repair your on-premises licenses. License activation, deactivation and repairing are the only cases when your license server contacts Trimble's activation server, and an Internet connection on your license server is needed.

Clients 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 (for example, through a VPN) or borrow a license while still connected to the license server at the office. If you have also online licenses, users outside your office network can use those without additional setup, as online licenses 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.

Direct communication from the server computer to the Internet needs to be allowed while the license server at your company contacts the activation server at Trimble. The activation communication is done using SOAP (Simple Object Access Protocol) 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>

Other infrastructure

Tekla Structures needs to be able to contact the license server to reserve a license when it starts up. Your firewall (for example, Windows Firewall) must allow the communication between the server computer and the Tekla Structures computers. You need to allow the applications *tekla.exe* and *lmgrd.exe* to operate through the firewall. The applications are located in the `..\Tekla\License\Server` folder.

The MAC address of your network adapter should not be changed on any computer that is running the license server. In case 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 should have a fixed IP address.

Which license server version to use

Check the table below to see which license server version to use with your current Tekla Structures version. Also check if you need to upgrade to a new service pack or progress release.

For information about updating the license server, see [Update the Tekla license server \(page 33\)](#).

Tekla Structures version	License Server 2016 SP1	License Server 2017 or later
2018 or later		✓
2017i - all versions		✓
2017 - all versions	✓	✓
2016i - all versions	✓	✓
2016 SP5/PR5 or later	✓	✓
2016 up to SP4/PR4	✓	Upgrade to 2016 SP5/PR5 or later
21.1 SR7 or later	✓	✓
21.1 up to SR6	✓	Upgrade to 21.1 SR7 or later
21.1 all PV versions	✓	✓
21.0 or earlier	✓	✓

For instructions on how to install the license server, see [Install Tekla on-premises license server](#).

2.2 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 cloud-based (separately licensed) Tekla Model Sharing features may be a better fit for you.

Operating system

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

- 64-bit Windows 8.1
- 64-bit Windows 10
- 64-bit Windows Server 2016

32-bit Windows is not 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. You can run the Tekla Structures multi-user server on the same computer as, for example, 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 Create your Trimble Identity

You need a Trimble Identity to download Tekla Structures and to use your online licenses. The Trimble Identity is connected to a Tekla Online organization (a user group for your physical organization).

Creating a Trimble Identity on your first license purchase

- If you did not have an existing Trimble Identity, Trimble sends you an email with an invitation to complete your account creation. Create your account using the link in this email and make sure you fill in all of the required user profile information.
- If you are a company's named contact, you are invited to your Tekla Online organization by Trimble when the organization is created in Tekla Online.

You will receive an email to accept membership in your new Tekla Online organization. You are then responsible for managing the organization together with other administrators that you may assign.

See [Manage Trimble Identities and Tekla Online licenses](#) for more information.

Creating a Trimble Identity to join an existing organization

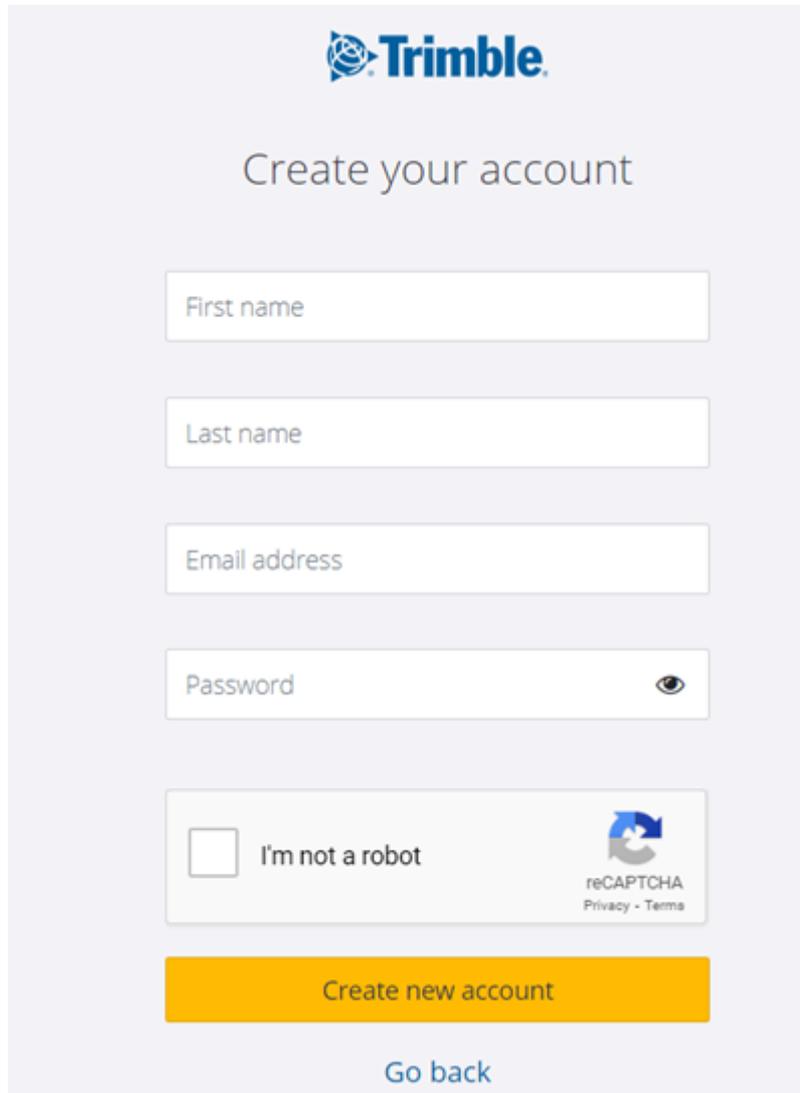
If you have any problems creating or using your Trimble Identity in Tekla Online services, see the detailed Trimble Identity information on the [Trimble Identity for Tekla Online services](#) page.

To create a new Trimble Identity account:

1. 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 you have the correct access rights. Otherwise, [Click here to create a new Trimble Identity](#).

2. Complete the **Create new account** form and click the **Create new account** button.

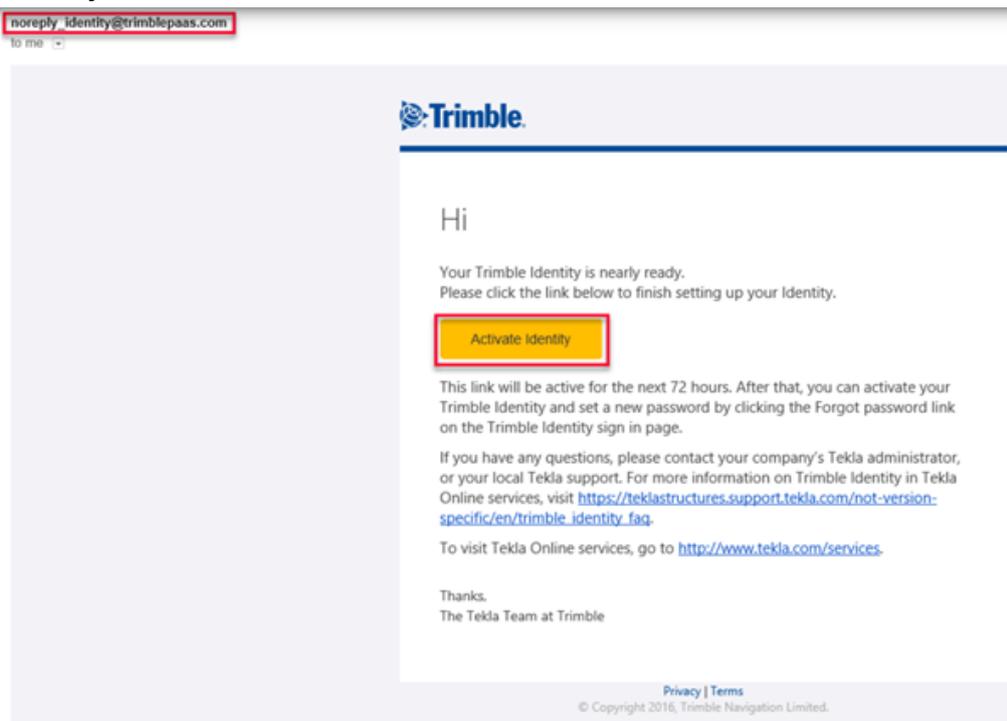
If you have several different email addresses, **use your company email address**



The image shows a screenshot of the Trimble account creation page. At the top is the Trimble logo. Below it is the heading "Create your account". The form consists of several input fields: "First name", "Last name", "Email address", and "Password". The "Password" field has an eye icon to toggle visibility. Below the password field is a reCAPTCHA "I'm not a robot" checkbox and the reCAPTCHA logo with "Privacy - Terms" links. At the bottom of the form is a large yellow "Create new account" button and a blue "Go back" link.

3. Look for a verification email in your inbox and click the link provided to verify your account. You must verify your account to access your Trimble

Identity.



NOTE If you do not receive this email in your inbox, check your Spam/Junk email folder. See the troubleshooting information on the [Trimble Identity for Tekla Online services](#) page for more help in case there are problems.

4. Sign in with your new account, fill in all the required profile information, and click **Save**.
5. Join your Tekla Online organization in one of the following ways:
 - a. Switch to the **Organization** page on your user profile page, select an organization that you would like to join, and click **Send request**. If there are no organizations listed, it means your email address does not match with any existing organization's email address.
 - b. Ask your company's Trimble Identity administrator to invite you, and accept the invitation when it arrives via email or on your user profile pages at <https://account.tekla.com/>.

Your Trimble Identity is now active, and you can install and license Tekla Structures.

NOTE Membership in an organization can also affect your access to your organization's cloud-stored data, such as Tekla Model Sharing models. Make sure you do not switch between

organizations unnecessarily. When available, use your company email address with your Trimble Identity.

4 Install and license Tekla Structures

Tekla Structures installation packages are available for download in Tekla Downloads.

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 2021 hardware recommendations \(page 9\)](#).

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 have an online license, the license is connected to your Trimble Identity, and assigned to you by your organization's administrators. All you need to do is to install and start Tekla Structures, and select to use online license.

If you have an on-premises license, you need to have the on-premises server installed, and your entitlement certificate activated on the server, and Tekla Structures connected to this license server. For details, see [Tekla Structures on-premises licensing \(page 38\)](#).

4.1 Install Tekla Structures

To use Tekla Structures, install the Tekla Structures software and the Tekla Structures environments that you want to use. Then you can start Tekla Structures, sign in and select the license type.

NOTE If you are using on-premises licensing, you need to have the Tekla on-premises license server installed, either on your own computer or on

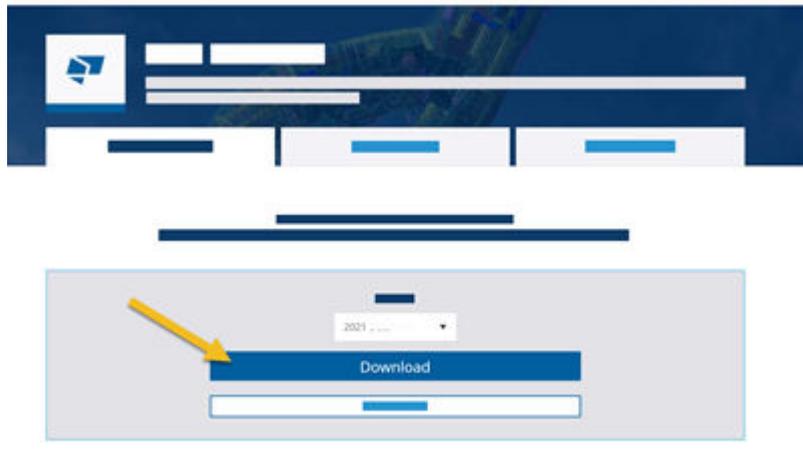
another computer, your Tekla Structures on-premises license activated, and Tekla Structures connected to this license server before you can start Tekla Structures. For details, see [Tekla Structures on-premises licensing \(page 38\)](#).

NOTE You need to be signed in with administrator rights to install the Tekla Structures software on your computer.

1. Install the Tekla Structures software.

- a. Download the installation file from [Tekla Downloads](#) to your computer.

At the site, click **Download** for a guided experience that ensures 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.

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

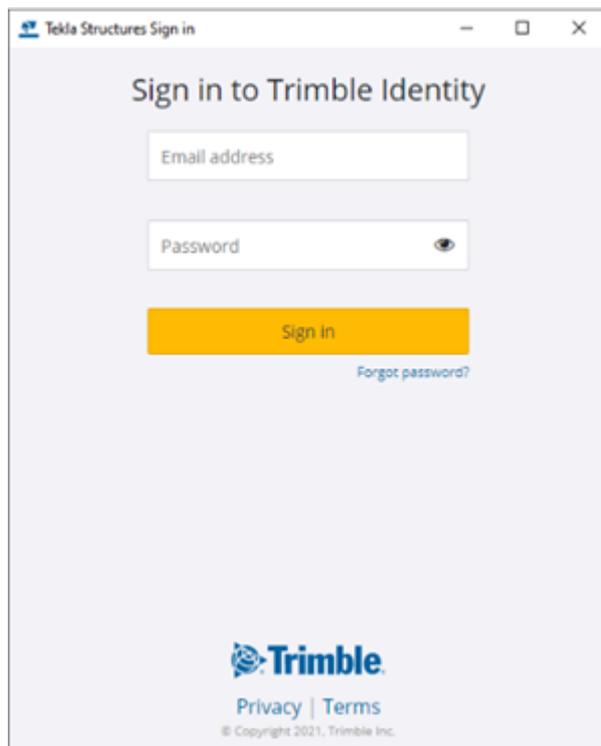
- a. Download the environment installation files from [Tekla Downloads](#) to your computer.
b. Double-click the installation file to run the installation.
c. Follow the steps in the installation wizard to complete the installation.

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

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. At start-up, Tekla Structures opens a dialog box that shows the installation progress. The environment setting files are installed even if you **Cancel** the installation in this dialog box. The installation of extensions is cancelled. Tekla Structures will install the extensions at the next start-up.

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.

3. Start Tekla Structures by selecting it from the Windows Start menu or by double-clicking the desktop icon.
4. Sign in to Tekla Structures with your [Trimble Identity \(page 17\)](#).



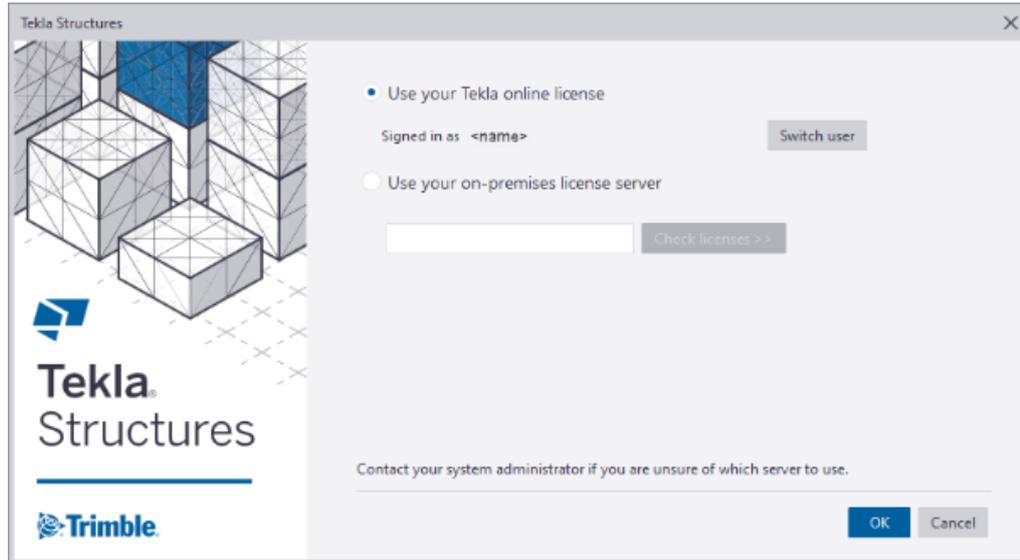
If you get the cookie policy message, click **X** to dismiss it.

The default sign-in period is 30 days, and after that sign in will be required.

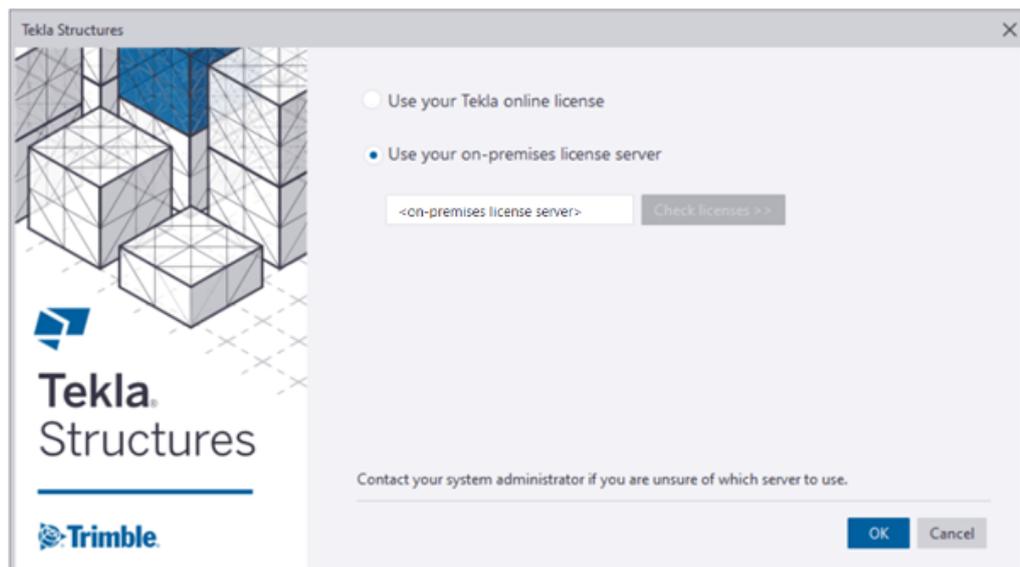
5. Select **Use your Tekla online license** and click **OK**.

This option is the default option.

For information about managing online licensing, see [Manage Trimble Identities and Online licenses](#).



If you need to use an on-premises license, select **Use your on-premises license server**. For more information about the on-premises licensing, see [Tekla Structures on-premises licensing \(page 38\)](#).



Tekla Structures keeps the online license on the computer you are using when you close Tekla Structures, and select the **Keep this license reserved on this device** check box in the closing confirmation message

box. This check box gets selected by default when you close Tekla Structures for the first time.

To release the license when you close Tekla Structures and use the same license on another computer, clear the **Keep this license reserved on this device** check box.

6. Next, you need to select your environment, role and configuration. For details, see Start Tekla Structures.

The configuration list shows the configurations you are entitled to.

If you need to work offline, see [Work offline with an online license \(page 27\)](#).

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

Tekla Structures software and environments are installed into different folder locations by default. You can select the Tekla Structures software installation folder in the software installation wizard. The location of the environment installation folder depends on where you have installed the software. You cannot select the installation folder for the environments in the environment installation wizard.

By default, the software and environments are installed in the following folders:

- Software is installed under the `\Program Files\Tekla Structures \<version>\` folder.
- Environments and extensions are installed under the `\ProgramData \Trimble\Tekla Structures\<version>` folder.
- User settings are installed under the `\Users\<username>\AppData \Local\Trimble\Tekla Structures\<version>` folder.

If you install Tekla Structures software under `C:\`, the software and the environments are both installed under `C:\Tekla Structures\<version>`. User settings are installed under the `\Users\<username>\AppData\Local \Trimble\Tekla Structures\<version>` folder.

When you install a new Tekla Structures version, make sure that the installation folder does not contain any files from other Tekla Structures versions. This is to ensure that you get all the files that are included in the installation package.

Note that when you are installing a service pack and you already have the related Tekla Structures version or a previous service pack installed, you cannot select the installation folder. The service pack will be installed to the same folder as the related Tekla Structures version or the service pack that you are updating. The installation folder will contain files from the related Tekla Structures version or the previous service pack. Installing the new service pack will automatically remove the old files before copying the new files. Note that if you have your own files in the installation folder, these files will remain unchanged in the folder.

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

NOTE You may need to install Tekla Structures to 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 need to change the language in XS_STD_LOCALE and the Windows system locale in Windows **Control Panel** to that same language so that Tekla Structures can work normally.

5 Work offline with an online license

Use Tekla Structures offline

To use Tekla Structures offline, close Tekla Structures, and ensure that the **Keep this license reserved on this device** check box is selected in the closing confirmation message box. The maximum offline time is 3 days.

Note that it is not possible to use Tekla Structures simultaneously on different computers with the same online license. If you reserve a license, you cannot use the same license on a different computer. You must close Tekla Structures without keeping the license reserved to be able to use the license on a different computer.

If the connection to Tekla Online licensing is lost

If the connection to Tekla Online licensing service has been lost, a notification is displayed.

The possible cause is one of the following:

- Internet connection is not available.
- Tekla Online licensing 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](#).
- Other unknown reasons.

Tekla Structures is now in offline mode and will continue to function normally for the amount of time shown in the notification. The notification message will change depending on the amount of time left for offline use. The maximum offline time is 3 days.

Tekla Structures will try to reconnect automatically. You can also try to reconnect manually by clicking the **Try reconnecting now** button. If the

button is disabled, it means that reconnecting is not possible at the moment; we recommend you to wait until the button is enabled and try again.

If the offline mode time runs out, you can no longer use Tekla Structures. You can either **Save the model and close Tekla Structures** or **Close Tekla Structures**.

6 Install Tekla Structures service packs

Tekla Structures service packs are Tekla Structures version updates. Service packs can include new features, and improvements and fixes to existing features. We recommend that all users install the latest service pack.

Service pack software installation files are stand-alone installers that contain the full Tekla Structures version software. You do not need to separately install the related Tekla Structures version or a previous service pack. 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 install the latest environments to ensure that the environments work correctly in the service pack. We recommend that you update all the environments that you are using.

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 Tekla Structures 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 the Tekla Structures environments.

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 Tekla Structures 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.

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 and start using a new version, you do not need to uninstall the older versions and you can keep using them. Service packs are cumulative updates, so 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 (follow the links in the text for detailed instructions):

1. Depending on your license type:
 - If you have an online license, your license is valid until the end of the current contract period, and you do not need to renew the license.
 - If you have an on-premises license:
 - a. [Update the Tekla on-premises license server \(page 33\)](#). The updated version replaces the existing version you have installed.
 - b. Renew your licenses as explained in [Renew a Tekla on-premises license \(page 34\)](#).

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 \(page 21\)](#).

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 \(page 36\)](#).
You can use the [Migration Wizard \(page 36\)](#) 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 \(page 37\)](#).

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. If you do not use project and firm folders, you need to 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 2020 license server \(page 12\)](#).

To update the Tekla license server:

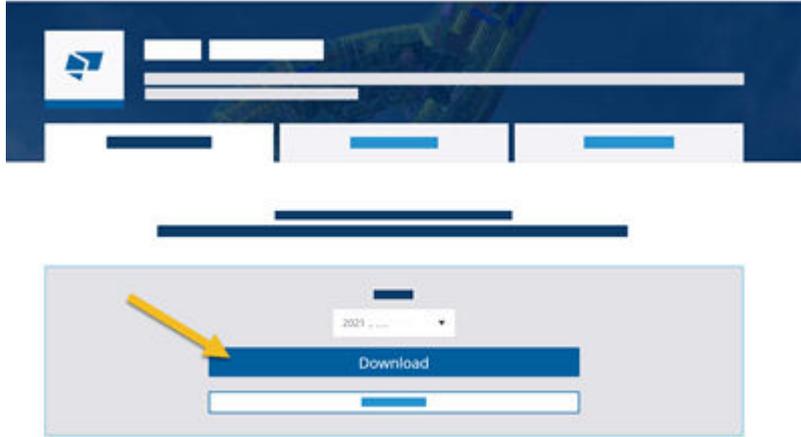
1. Save the model that you are working with and close Tekla Structures before the server update.
2. Go to **Tekla Licensing** --> **LMTTOOLS** through the **Start** menu or **Start screen**, depending on your Windows operating system.
3. On the **Stop/Start/Reread** tab, click **Stop Server** to stop 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 change 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 antispysware/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 .

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

8. 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

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

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.

1. Start the new Tekla Structures version.
2. In Migration Wizard, click **Next** to start copying the settings.
3. Select the settings you want to copy and click **Next**.
4. Check that you have selected the correct settings.
5. Click **Copy**.

NOTE If you want to copy the settings later, you can start Migration Wizard manually by double-clicking the `MigrationWizard.exe` in the `\Tekla Structures \<version>\nt\bin\applications\Tekla\Migrations` folder. You can select the version from which the settings are copied and the version to which the settings are copied.

See also

[Upgrade Tekla Structures to a new version \(page 32\)](#)

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.

1. If you have used project and firm folders to store customized files in a model using a previous Tekla Structures version, go to **File menu --> Settings --> Advanced Options** and check that the `XS_FIRM`, `XS_PROJECT` and `XS_COMPANY_SETTINGS_DIRECTORY` advanced options point to the folders where the customized files are located.
2. If you have not used project and firm folders to store customized files, you need to transfer the customized files manually to the new Tekla Structures version to use the information.

Many types of files can be copied using a local or private online Tekla Warehouse collection. See [Tekla Warehouse instructions](#) for more information.

Check at least the following:

- Advanced options
- Files related to templates, reports and drawings
- Catalog files: profile catalog, material catalog, bolt catalog, bolt assembly catalog, rebar shape catalog
- Conversion files
- Extensions

You need to re-install extensions for the new Tekla Structures version.

- NC export settings
- Printer catalog settings
- User-defined attributes
- Saved model object properties

You can copy some information automatically to the new version using the [Migration Wizard \(page 36\)](#) tool.

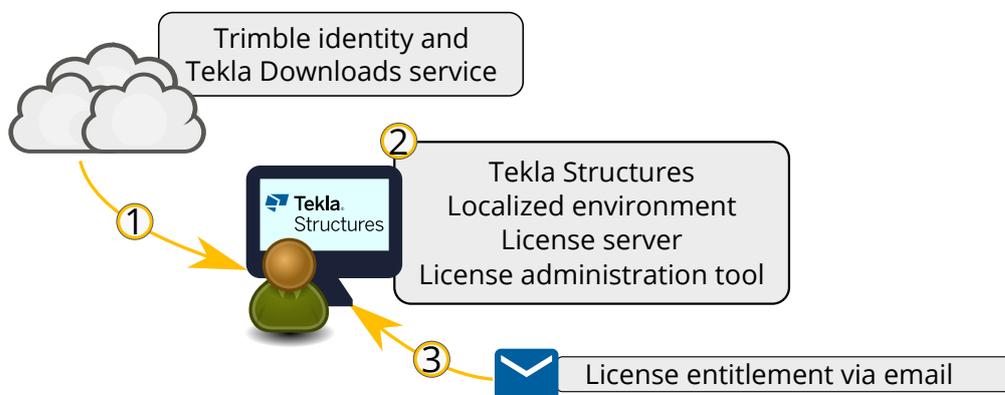
See also

[Upgrade Tekla Structures to a new version \(page 32\)](#)

8 Tekla Structures on-premises licensing

The information on this page is not valid for online licenses.

On-premises licenses are an alternative to the default online licensing method. Whether the license is on-premises or online is determined when you purchase a license, so you cannot switch your licenses between the two distribution methods 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. On-premises licenses are delivered in the form of an entitlement certificate that is sent via e-mail.
3. Activate your on-premises licenses.
4. Connect Tekla Structures to the on-premises license server.

On-premises licensing technology

With 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 you may 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 2020 license server \(page 12\)](#). 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 will install a license server directly on the 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. If you want to use this type of setup, 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 may 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 .

If you have problems, see 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, you need to 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.

To install the on-premises license server:

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 you have all necessary files.



To check the license server version to use, see [Hardware recommendations for Tekla 2020 license server \(page 12\)](#).

2. For standard setup, select the options **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

Save your on-premises license entitlement certificate.

As a preliminary action for transferring license rights from Trimble Solutions license activation server to your license server, you need to save the entitlement certificate, which 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.

To save the on-premises license entitlement certificate:

1. In your e-mail application, open the e-mail containing the entitlement certificate.

2. Download the entitlement certificate file `EntitlementCertificate.html` to the `..\Tekla\License\Server` folder.

The entitlement certificate states the configurations, quantities and activation IDs of your Tekla Structures on-premise licenses. The entitlement certificates are not computer-specific. This means that you can activate licenses from several entitlements on one license server and you can activate licenses from one entitlement (containing several licenses) on several license servers.

8.3 Activate on-premises licenses

Activate your Tekla Structures on-premises licenses.

You need to activate the on-premises licenses on the on-premises license server to use Tekla Structures. 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 Tekla License Administration Tool for activating 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 .

To activate your on-premises licenses and notify the on-premises license server about license changes:

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 the **Activate** button.

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

Next, you need to 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

Connect Tekla Structures to the on-premises license server.

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.

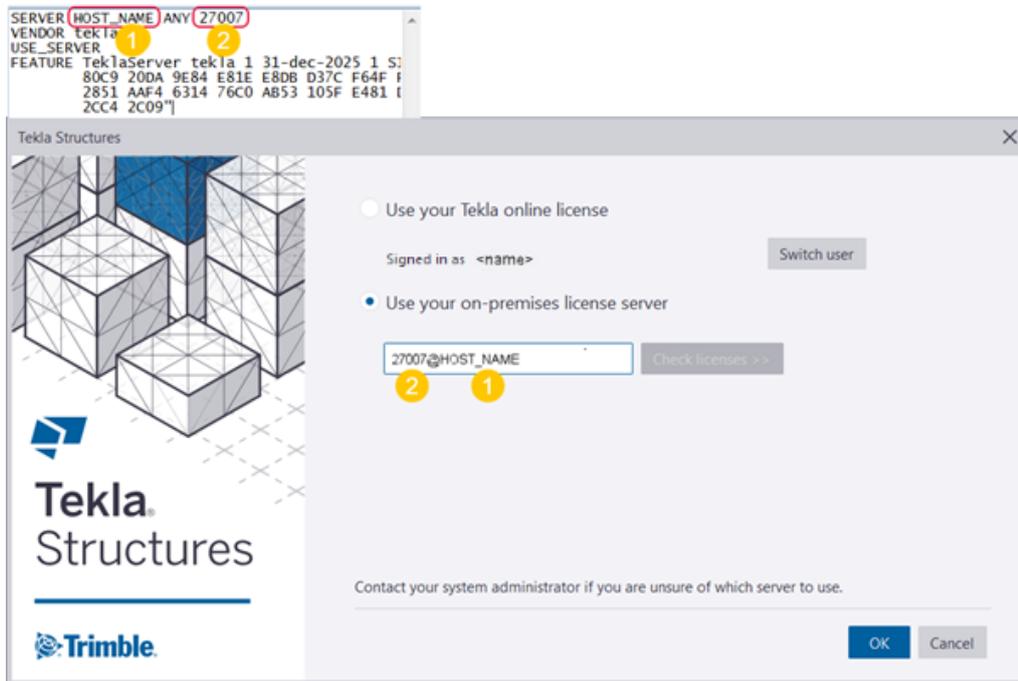
If the on-premises license server is installed on a different computer, you must tell Tekla Structures the name of the on-premises license server computer in your internal network so that your computer can contact the on-premises license server computer.

To connect Tekla Structures to the on-premises license server when you start Tekla Structures for the first time:

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 with 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. Click **OK** to start Tekla Structures.

9 Borrow on-premises licenses for Tekla Structures offline use

You can borrow an activated on-premises license from the license server when you work offline and no license server is installed on your computer. 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.

NOTE If you have an online license, the following instructions do not apply. You can [work offline with your online license \(page 27\)](#).

9.1 Install and set up Tekla License Borrow Tool for license borrowing

Set up Tekla License Borrow Tool: install Tekla License Borrow Tool, connect Tekla Structures to the on-premises license server, and open the product ID file containing all Tekla Structures configurations and their product IDs. You may use the default product ID file (`standard.tpi`) or ask your administrator to send you a new and customized product ID file that contains only the configurations that you are allowed to use. .

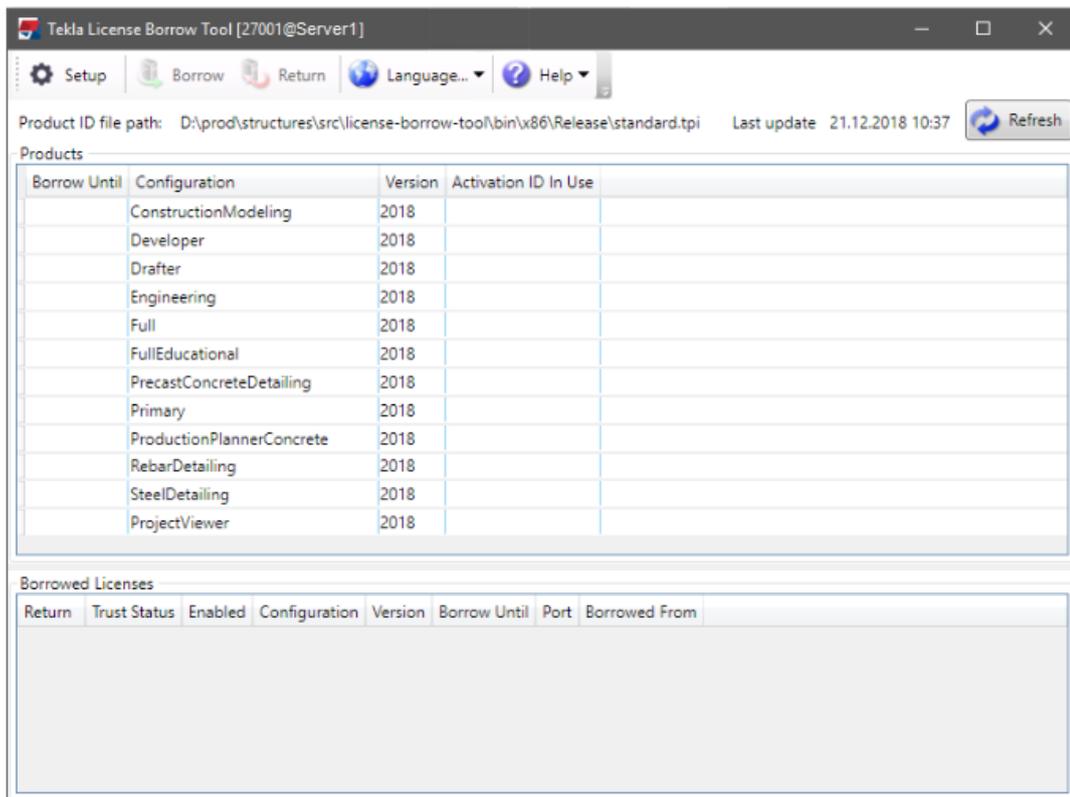
To install and set up Tekla License Borrow Tool:

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`.
You need to use exactly 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** and select the product ID file.
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 related components, you can uninstall to save space on the computer.

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

- If you have an online-license, sign out from Tekla Structures, this releases any licenses reserved.
- If you have an on-premises license, sign out from Tekla Structures, deactivate the license, and uninstall the on-premises license server. Follow the instructions below.

10.1 Uninstall Tekla Structures

Uninstall the Tekla Structures software and environments in the Windows **Control Panel**.

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

When you no longer use a Tekla Structures version, you can uninstall it without affecting other installed Tekla Structures versions.

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 service packs.
 - b. Uninstall the Tekla Structures environments.

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

When you uninstall an environment of a Tekla Structures software version you are still using, the uninstalled environment is not shown in the Tekla Structures setup dialog box anymore.

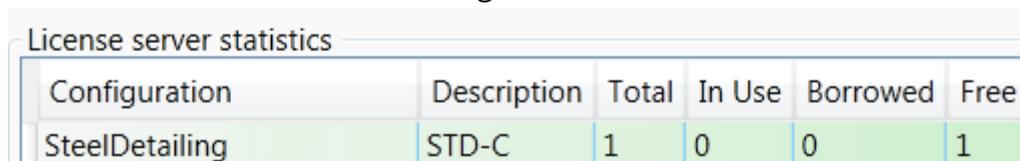
For more information, see .

- c. Uninstall the main Tekla Structures software.
 - d. If installed, uninstall the offline help package.
 - e. If needed, delete the additional files or extensions related to Tekla Structures manually from the [installation folders \(page 21\)](#).
3. If you no longer wish to run any version of Tekla Structures on the computer, uninstall the components that are not version-specific.
 - a. The Tekla Warehouse service and content components.
 - b. If you have an on-premises license: The Tekla License Borrow Tool. before you uninstall the license borrowing tool.
 - c. The Tekla License Administration Tool.
 - d. If you have an on-premises license: For uninstalling a Tekla license server, see the instructions below.

10.2 Deactivate licenses and uninstall on-premises license server

Follow the instructions below when you want to permanently remove the on-premises license server from this computer. If you are upgrading to a new version on the same computer, see [Update the Tekla on-premises license server \(page 33\)](#) instead.

1. Make sure that all [borrowed licenses are returned \(page 44\)](#).
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.



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	
<input type="checkbox"/>			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 \(page 44\)](#).
2. Deactivate your licenses. For more information, see the deactivation steps in [Deactivate licenses and uninstall the on-premises license server \(page 48\)](#).
3. Go to **Tekla Licensing** --> **LMTOOLS** through the **Start** menu or **Start screen**, depending on your Windows operating system.
4. Go to the **Service/License File 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.

11 Disclaimer

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To see the third party open source software licenses, go to Tekla Structures, click **File menu** --> **Help** --> **About Tekla Structures** and then click the **3rd party licenses** option.

The elements of the software described in this Manual are protected by several patents and possibly pending patent applications in the United States and/or other countries. For more information go to page <http://www.tekla.com/tekla-patents>.

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