

2018 SOLIDWORKS Electrical Client-Server Installation Guide



This guide gives instructions for installing SOLIDWORKS Electrical 2018. It is written for client-server installations of SOLIDWORKS Electrical. In this configuration, a server computer hosts the program data, collaborative server and SQL server, while each client computer hosts the user application. If your software is installed in a standalone configuration (all program components on the same computer), please refer to the **2018 SOLIDWORKS Electrical Standalone Installation Guide** (available in our <u>Help Center</u>). Please contact <u>Hawk Ridge Systems Technical Support</u> if you are unsure of your SOLIDWORKS Electrical configuration type.

SOLIDWORKS Electrical 2018 uses the same installation manager as other SOLIDWORKS products, including the 3D CAD software. If installing other SOLIDWORKS products along with Electrical, please also refer to their installation guides for further instructions.

This is not a troubleshooting guide. Please visit our <u>Help Center</u> or contact <u>Hawk Ridge Systems Technical</u> <u>Support</u> if you have any technical issues with SOLIDWORKS Electrical.

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Before Installing

Hawk Ridge Systems highly recommends taking a moment before installing SOLIDWORKS Electrical and checking that you are ready to load your new software. First, ensure that your computer meets <u>minimum</u> <u>system requirements</u> and that your <u>video card passes certification checks</u>. Also, confirm that the hard drive has enough space to have at least 15% free space after the full installation. Back-up data such as any shared Toolbox library, Design Library, Template files, or a data management vault. As always, verify workmates, customers, or vendors are all on the same version of SOLIDWORKS Electrical. Older versions of SOLIDWORKS Electrical cannot open files from newer versions.

- 1. Confirm your community's working version.
 - Ensure that colleagues, customers and vendors with whom you share files are all on the same version you are installing.
 - You can only have one version of SOLIDWORKS Electrical installed on a single computer, so any previous versions will be uninstalled.
 - In the client-server configuration, all installations must be running the same major year version of SOLIDWORKS Electrical. A future version server installation will not be accessible to a client installation of an earlier version.
- 2. Back-up your data.
 - It is strongly recommended that you **archive your environment** prior to performing any upgrade or maintenance of SOLIDWORKS Electrical. This will save a copy of all your program data (projects, components, symbols, etc.) into one compressed file. To do this, click the **Archive Environment** button within the SOLIDWORKS Electrical application and run through the wizard. Note that the archive may take several hours to create, so we recommend running this process overnight.





- If you have related SOLIDWORKS files, it is recommended that you make backup copies of these also. Any templates or design libraries should also be saved to a backup folder.
- 3. Obtain your SOLIDWORKS 2018 installation media.
 - The latest version of the SOLIDWORKS Installation Manager can be downloaded from the <u>SOLIDWORKS Customer Portal</u>. If you do not have a Customer Portal account, please refer to our guide titled **2018 Product Registration** to create and register one.
 - The Installation Manager can be used to download the necessary files and complete the installation in one process.
 - The Installation Manager can also be used to download the full SOLIDWORKS 2018 installation files ahead of the installation. This complete file set is approximately 13 GB and is equivalent to the DVDs. This is useful if SOLIDWORKS Electrical is being installed on several computers, as the files can be downloaded once then copied to those computers via the network or a removable storage device.
 - You can also use the SOLIDWORKS 2018 DVDs, if available.

Licensing

SOLIDWORKS Electrical can be used with standalone and network licenses. Note that the license type differs from the installation configuration, which can be standalone or client-server (this guide is for the client-server configuration). Either license type can be used with either configuration.

If you have a standalone license, you will need to activate SOLIDWORKS Electrical after installing. You will be automatically prompted to do this when launching the application after an installation. If you are installing SOLIDWORKS at the same time as SOLIDWORKS Electrical, you will need to launch SOLIDWORKS to complete the activation. Refer to our guide titled **2018 Product Activation** for more information on activation methods. You may also deactivate a standalone license on a particular computer by following the steps in the <u>Appendix</u>. This will allow the license to be activated on another computer.

If you have a network license, the SolidNetWork License Manager on the license server computer needs to be of a version at or above the version of SOLIDWORKS Electrical that you are installing. If this is not already the case, refer to our guide titled **2018 Network Server Installation** to install and activate a suitable version of the SolidNetWork License Manager.



Configuration Requirements

SOLIDWORKS Electrical 2018 includes Microsoft SQL Server 2014 Express in the installation.

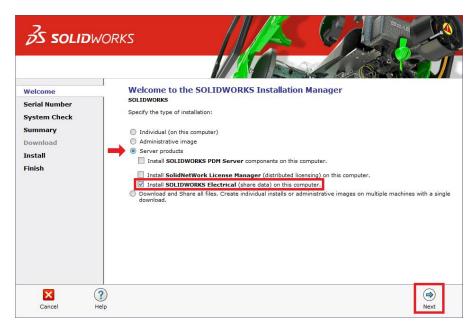
If you are installing SOLIDWORKS Electrical 3D, you must either install SOLIDWORKS along with Electrical 3D or have already installed SOLIDWORKS on your computer. SOLIDWORKS, SOLIDWORKS Electrical Schematic and SOLIWORDS Electrical 3D must all be of the same version and service pack.

The client and server components of SOLIDWORKS Electrical in the client-server configuration will need to be in continuous communication over the network. Please refer to our guide titled **Network Communication Ports in SOLIDWORKS Electrical** for more information on the network requirements.

Server Installation

REMINDER: We strongly recommend <u>archiving your environment</u> before proceeding with this upgrade.

- 1. Log into the server computer as an administrator.
- 2. Disable all anti-virus and anti-spyware tools and turn off Windows User Account Control.
- Locate your SOLIDWORKS 2018 installation media (download or DVD) and launch the setup application (Right-click on Setup.exe and choose Run as Administrator). You should see the Welcome screen for the SOLIDWORKS Installation Manager. Select Install SOLIDWORKS Electrical (share data) on this computer under Server products then click Next.





- 4. The Installation Manager will perform an automatic system check for any existing versions of SOLIDWORKS or SOLIDWORKS Electrical. Take note of any messages or warnings during this step then click **Next**.
- 5. You will then see the Summary screen with details of the **Electrical Options**. Click **Change** to edit these options.

S SOLIDW	ORKS		
Welcome	Summary		
Serial Number System Check	Electrical Options		
Summary	Features to install:	Data, Collaborative Server and SQL Server	
	Data:	C:\ProgramData\SOLIDWORKS Electrical	
Download	Collaborative Server:	localhost:26666	
Install Servers	SQL Server:	localhost\TEW_SQLEXPRESS	
Finish	Download Options		CHANGE
	I accept the terms of the S	OLIDWORKS	
Cancel He			Back Install Now
Concer He	1P		Dock Install NOW

- 6. Check the following options then click **Back to Summary** when finished.
 - Features to install should all be checked on.
 - **Data Location** specifies the directory that will contain all of the program data. The default is C:\ProgramData\SOLIDWORKS Electrical. Click Browse to change this location if desired. Take note of the location, as it will need to be shared over the network (see later steps).
 - **Collaborative Server** specifies the machine name and port number of the collaborative server. The defaults are localhost and 26666, respectively. These settings should be left default for the server installation.
 - SQL Server specifies the name of the SQL server (the default is localhost\TEW_SQLEXPRESS) that will host the Electrical databases and the password that will be used to connect to it. For a new server installation, select the option to Install a new instance of SQL Server with the name localhost\TEW_SQLEXPRESS, and tew user password SQLpwd4ew. These should be the default values.



		642
Velcome Serial Number System Check Summary	Features to install Jata Collaborative Server SQL Server	
Electrical Options	Data Location	
Download Install Servers Finish	C:\ProgramData\SolidWorks Electrical	Browse
	Name: localhost Port Number: 26666	
	SQL Server	
	Name: localhost\TEW_SQLEXPRESS Install a new instance of SQL Server Use an existing SQL Server database	Browse
	Password for 'tew' user: SQLpwd4ew	

- 7. Confirm that all the information on the Summary screen is correct. Accept the license agreement then click **Install Now** to begin the installation.
- 8. When the installation is complete, you will be asked to join the <u>SOLIDWORKS Customer Experience</u> <u>Improvement Program</u>. We recommend joining this, as it provides software performance information to SOLIDWORKS and enables the use of the CAD Admin Dashboard through the Customer Portal. The information this sends to SOLIDWORKS is treated confidentially and does not result in the transfer of any file information. After making the selection, click the **Finish** button to complete the installation.



- 9. Reboot the server computer. Check Windows Services and start the SOLIDWORKS Electrical Collaborative Server service if it is not already started.
- 10. Browse to the location of SOLIDWORKS Electrical data location as defined above. Right-click on this folder then click **Share with** > **Specific people...**

SolidWorks Electrical	Open Open in new window		М	File folder
	Share with Restore previous versions Include in library	•	•	Nobody Homegroup (Read) Homegroup (Read/Write)
	Send to Cut Copy	×	_	Specific people
	Create shortcut Delete Rename			
	Properties			



11. Add the client machines that will be connecting to the shared environment with SOLIDWORKS Electrical and ensure that they have Read/Write permissions to the directory.

🧼 🔉 File Sharing			
Choose people to share with			
Type a name and then click Add, or click the arrow to	o find someone.		
	•	A	dd
Name	Permission Lev	el	
Administrators	Owner		
A Everyone	Read/Write 🔻		Read
		<	Read/Write 🔓
			Remove
I'm having trouble sharing			
	S 🛞 S	hare	Cancel

Client Installation

IMPORTANT: The SOLIDWORKS Electrical server installation should be completed before the client installation.

- 1. Log into the computer as an administrator.
- 2. Disable all anti-virus and anti-spyware tools and turn off Windows User Account Control.
- Locate your SOLIDWORKS 2018 installation media (download or DVD) and launch the setup application (Right click on Setup.exe and choose Run as Administrator). You should see the Welcome screen for the SOLIDWORKS Installation Manager. Select Individual (on this computer) then click Next.



35 SOLIDH	YORKS
Welcome Serial Number System Check Summary Download Install Finish	 Welcome to the SOLIDWORKS Installation Manager Specify the type of installation: Individual (on this computer) Administrative image Server products Download and Share all files. Create individual installs or administrative images on multiple machines with a single download.
	elp Next

4. You will then see the Serial Number screen where you can enter the serial number for your SOLIDWORKS Electrical installation. Note that you do not need to enter multiple serial numbers if your SOLIDWORKS serial number is the same as your SOLIDWORKS Electrical serial number. If you are only installing the SOLIDWORKS Electrical Schematic application, the serial number should be entered in the corresponding field. Click **Next**.

3S SOLIDW	ORKS
Welcome	Serial Number
Serial Number System Check Summary	Enter your serial number information.
Download Install Finish	Simulation Simulation, Plastics, Simulation
	Technical Communication Composer, Composer Player Pro, Inspection, MBD Section Design
	SOLIDWORKS Electrical Schematic XXXX XXXX XXXX XXXX XXXX XXXX XXXX X
Cancel He	App Back Next

5. The Installation Manager will verify your serial number and perform an automatic system check for any existing versions of SOLIDWORKS or SOLIDWORKS Electrical. Take note of any messages or warnings during this step then click **Next**.



6. At the Summary screen, you can change the settings and options defined for the installation. To do so, click **Change** on the right side of each option.

S solidw	ORKS	
Welcome Serial Number	Summary This is a new installation	
System Check	Products	
Summary Download Install Finish	SOLDWORKS: PhotoView 360, SOLDWORKS Toolbox, SOLDWORKS Routi TolAnalyst, CircuitWorks, SOLDWORKS Costing, Design Checker, Example Studio Tools for Applications (VSTA), Help Files eDrawings SOLDWORKS Explorer/Workgroup PDH: SOLDWORKS Explorer SOLDWORKS Electrical: SOLDWORKS Electrical Schematic, SOLDWORK Collaborative Server, Data Languages: English Mate: Deavinged curtam components will be installed (343 MB): Check Eox	Files, Manuals, Visual
	Download Options Background Downloader is on	CHANGE S
	() Installation Location	CHANGE 🖉
	Toolbox/Hole Wizard Options	CHANGE
	(a) Electrical Options	
	I accept the terms of the SOLIDWORKS	
Cancel He		Back Install Now

- 7. Click **Change** next to Products to go to the Product Selection screen. Scroll down and ensure that SOLIDWORKS Electrical is checked on. Nested here are the individual Electrical components. Check these against the information below. Click **Back to Summary** when finished.
 - **SOLIDWORKS Electrical Schematic** is the 2D electrical schematic design application and should be checked on.
 - **SOLIDWORKS Electrical 3D** is the add-in for the main SOLIDWORKS application. It may not be available if your license does not include it, but if it does, ensure that you are installing SOLIDWORKS as well. They must be of the same version and service pack.
 - **Collaborative Server** is used to communicate between the application and the SQL server. This option should be checked off for a client installation.
 - **Data** includes the SQL server and program data used for the application (projects, symbols, manufacturer parts, templates, etc.). This option should be checked off for a client installation.



Welcome Serial Number System Check	Product Selection Select products to install. SOLIDWORKS Premium	Select different packages or products 🖉 🗸
Summary Product Selection	SOLIDWORKS Electrical (360 MB)	A
Download Install Finish	✓ SOLIDWORKS Electrical 3D (174 MB) □ Collaborative Server (45 KB) □ Data (37 MB) □ SOLIDWORKS Composer Player (384 MB) ▶ SOLIDWORKS PDM Client (799 MB) ▶ SOLIDWORKS Simulation (176 MB) □ SOLIDWORKS Simulation (176 MB)	E
	Install SOLIDWORKS Electrical Simplify development of embedded electrical systems fo line and multi-line schematic tools for planning your elect	r machines and other applications, with single- trical systems.

- 8. At the Summary screen, click **Change** next to Electrical Options. Check the following options and click **Back to Summary** when finished.
 - **Data Location** specifies the directory that contains all of the program data. It should be consistent with the directory that was used for the server installation. If it is not already, click **Browse** to point this to the shared directory (e.g. \\elecserver\SOLIDWORKS Electrical).
 - **Collaborative Server** specifies the machine name and port number of the collaborative server. It should show the name of the server computer (e.g. elecserver) and the port number of the collaborative server (26666 by default).
 - **SQL Server** specifies the name of the SQL server that hosts the Electrical databases and the password that is used to connect to it. It should show the name of the SQL server on the server computer (e.g. elecserver\TEW_SQLEXPRESS). If it is incorrect, click **Browse** to find and select the correct SQL server then make sure that **Use an existing SQL Server database** is selected.
 - We recommend changing the authentication type to **Connect using SQL Server Authentication** to prevent any permissions issues from affecting the upgrade. Make the login **sa** and use the appropriate password. This will be **SQLpwd4ew** unless explicitly changed by the administrator during the original server installation.



3S SOLIDW	ORKS	
Welcome Serial Number System Check Summary	SOLIDWORKS Electrical Options Data Location Nelecserver/SolidWorks Electrical Browse	
Electrical Options Download Install Finish	Collaborative Server Name: elecserver Port Number: 26666 SqL Server	
	Name: elecserver/TEW_SQLEXPRESS Browse Install a new instance of SQL Server Use an existing SQL Server database Connect using SQL Server Authentication Cogin: Sa Password: •••••••	
Cancel He	Password for 'tew' user: SQLpwd4ew	Summ

- 9. Confirm that all the information on the Summary screen is correct. Accept the license agreement then click **Install Now** to begin the installation.
- 10. When the installation is complete, you will be asked to join the <u>SOLIDWORKS Customer Experience</u> <u>Improvement Program</u>. We recommend joining this, as it provides software performance information to SOLIDWORKS and enables the use of the CAD Admin Dashboard through the Customer Portal. The information this sends to SOLIDWORKS is treated confidentially and does not result in the transfer of any file information. After making the selection, click the **Finish** button to complete the installation.



- 11. We recommend right-clicking on the SOLIDWORKS Electrical icon and choosing Run as Administrator when launching SOLIDWORKS Electrical for the first time after the installation. You may need to activate the license (if using standalone licensing). Follow the prompts to complete this. You will also be prompted to accept the license agreement.
- 12. Finally, you will be prompted to update the program data for this version of SOLIDWORKS Electrical. Proceed through this wizard to complete the installation and begin using the software.



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File View Library Tools Help		
Projekts Qut Save Projekts Provide Provide Provide Archive Unarchive Open Provide Provide Provide Provide SOLDWORKS Effection Archive Devention Devention Devention Devention		
Documents # x	Resources	μ×
Documents 🔶	🚮 Resources 🕦	
💋 Data update	_	
Welcome 💟 Selection		
Data update		
Welcome to the application data update wizard.		
The vacat of H guide public burden data steps. Press "Cancel" to bypass the data update. The update victard will be deplayed again on application restart. Press "Cancel" to bypass the data update. The update victard will be deplayed again on application restart.		
No preview available	Cancel	
	Carlos	
V Drawing preview		-
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Appendix: License Deactivation

Each activation transaction is coded to the hardware of your computer. If you are moving your SOLIDWORKS Electrical installation to a new computer, you will need to deactivate your license activation before activating on the new computer. You should also do this before reformatting or replacing your hard drive or operating system. If your SOLIDWORKS Electrical license is tied to your main SOLIDWORKS license (i.e. they are the same number), please see our guide titled **2018 Product Activation** for the deactivation process.

If your computer does not have internet access, refer to the E-mail Deactivation section of this document below.

Online Deactivation

- 1. Go to Start > All Programs > SOLIDWORKS 2018 > SOLIDWORKS Electrical.
- 2. Once SOLIDWORKS Electrical launches, click **Help** > **Deactivate License**.

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	File	View Li	brary Tools	Help				
	20 c	2	~~				~	(
Help / F1	Tutorial panel	Documentatio	n Collect	Online	Update subscription	About	Activate	Deactivate license
		Help			ore content	SOLIDWORKS Electrical		cense

3. Choose to deactivate **Automatically over the Internet**, enter your e-mail address, then click **Next**.



How would you like to deactivate?

Automatically over the Internet (recommended)

Manually via e-mail

4. The software will connect to the SOLIDWORKS activation servers and you will be informed when the license has been successfully deactivated.

Result	Deactivation succeeded.

5. Press the **Finish** button to complete the process.

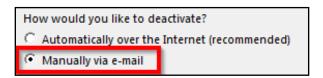
Note: SOLIDWORKS Electrical will no longer run on this computer unless it is re-activated.

E-mail Deactivation

- 1. Go to Start > All Programs > SOLIDWORKS 2018 > SOLIDWORKS Electrical.
- 2. Once SOLIDWORKS Electrical launches, click **Help** > **Deactivate License**.

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	File	View Lib	rary Tools	Help			
?	20	2	~~				2
Help / F1	Tutorial panel	Documentation	Collect information	Online content	Update subscription	About	Activate Deactivate license license
		Help		Get m	ore content	SOLIDWORKS Electrical	License

3. Choose to activate **Manually via e-mail**, enter your e-mail address, then click **Next**.



4. On the next page, press the **Save** button to create an activation request file.

1) Press Save to create a request file:			
	<u>S</u> ave		

Note: Once you have saved this file, your activation is disabled. Do not exit the activation window until you have read in the response file from SOLIDWORKS and completed the process or you will not be able to run SOLIDWORKS Electrical to complete the deactivation.

5. Browse to a location on your computer to store this .txt file and press the **Save** button. Copy this .txt file onto a removable storage device and take it to a computer with internet access.



File name:		_	Save
Save as type:	Text Documents (*.txt)	•	Cancel

6. E-mail this file as an attachment to <u>activation@solidworks.com</u>, leaving the subject and message body blank.



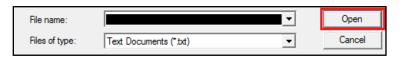
7. SOLIDWORKS will send a return e-mail with a different .txt file attached. Save this file to a removable storage device and take it back to the computer awaiting the activation deactivation.

From:	SW Activation
To:	
Cc:	
Subject:	Activation Status
🖂 Message	SWActivateResponsetxt (3 KB)

8. In the activation wizard dialog, press the **Open** button.

3) Press Open to load a response file:			
	<u>O</u> pen		

9. Browse to the response file then press the **Open** button.



10. The next page will show you that your deactivation is complete.



11. Press the **Finish** button to complete the process.

Note: SOLIDWORKS Electrical will no longer run on this computer unless it is re-activated.