

SOLIDWORKS PCB 2018 Installation Guide

TITLE:	SOLIDWORKS PCB 2018 Installation Guide
DATE:	08/23/2017
SUBJECT:	SOLIDWORKS PCB 2018 Installation
ABSTRACT:	This guide gives instructions for installing SOLIDWORKS PCB 2018 . It is written for standalone installations of SOLIDWORKS PCB 2018 . In this configuration, all program components are on the same computer.



This guide gives instructions for installing **SOLIDWORKS PCB 2018**. It is written for standalone installations of **SOLIDWORKS PCB 2018**. In this configuration, all program components are on the same computer. The software can also be installed in a shared configuration where a server computer, or other computer able to reach the network, hosts **SOLIDWORKS PCB Services** data, while user computers run either **SOLIDWORKS PCB**, **SOLIDWORKS PCB Connector** or the **SOLIDWORKS PCB Add-In**. Please contact <u>Hawk Ridge Systems Technical Support</u> if you are unsure of your **SOLIDWORKS PCB** configuration type.

SOLIDWORKS PCB 2018 uses the same installation manager as other **SOLIDWORKS** products, including the 3D CAD software. If upgrading other **SOLIDWORKS** products along with **SOLIDWORKS PCB 2018**, please also refer to their <u>upgrade guides</u> for further instructions.

This is not a troubleshooting guide. If you have any technical issues with SolidWorks, please contact <u>Hawk</u> <u>Ridge Systems technical support</u>. This document is only to be distributed and used by Hawk Ridge Systems customers. Any other use is prohibited.

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Product Information

SOLIDWORKS PCB is a PCB design tool that integrates with **SOLIDWORKS 3D** to allow collaboration between electrical and mechanical designers. Changes to a PCB design can be made in either **SOLIDWORKS PCB** or **SOLIDWORKS 3D** then synchronized between the two programs.

SOLIDWORKS PCB Connector is also available. This product enables **SOLIDWORKS 3D** integration with Altium Designer. Here the PCB design tools are provided by Altium Designer, while the 3D collaboration tools are provided by **SOLIDWORKS PCB Connector**. Note that sales and support for Altium Designer are not provided by Hawk Ridge Systems or **SOLIDWORKS**.

Refer to <u>www.solidworkspcb.com</u> for more information.



Licensing

SOLIDWORKS PCB 2018 can be used with standalone and network licenses. Note that the license type differs from the installation configuration type, which can be standalone or shared. The license type can be standalone or client-server (this guide is for the standalone configuration). Either license type can be used with either configuration type.

If you have a standalone license, you will need to activate **SOLIDWORKS PCB 2018** after installing. You will be automatically prompted to do this when launching the application after an upgrade. Refer to our guide titled **2018 Product Activation** for more information on activation methods. If you are moving your **SOLIDWORKS PCB 2018** installation to a new computer, you will need to transfer your license activation off the old computer before activating on the new one. Refer to the <u>Appendix</u> for instructions on transferring your **SOLIDWORKS PCB** standalone license.

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 PCB 2018** that you are installing. If this is not already the case, refer to our guide titled **2018 Network Server Installation** to install and activate the **SolidNetwork License Manager**.

Configuration Requirements

If you are installing **SOLIDWORKS PCB 2018**, and are looking to take advantage of 3D imaging and data transfer, you must either install **SOLIDWORKS 3D** along with **SOLIDWORKS PCB 2018** or have **SOLIDWORKS 3D** previously installed on your computer. It is recommended that **SOLIDWORKS 3D** and **SOLIDWORKS PCB** be of the same version and service pack, however it is not required.

Program Components

If you have purchased **SOLIDWORKS PCB**, you will need to install:

- SOLIDWORKS PCB
- SOLIDWORKS PCB Services
- SOLIDWORKS PCB Add-In

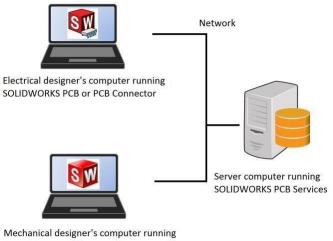
If you have purchased **SOLIDWORKS PCB Connector**, you will need to install:

- SOLIDWORKS PCB Connector
- SOLIDWORKS PCB Services
- SOLIDWORKS PCB Add-In

Refer to the table below for more information on the four program components.



Program Component	Description	Typical Installation Location
SOLIDWORKS PCB Services	Service that enables communication and collaboration between the SOLIDWORKS PCB and SOLIDWORKS 3D programs	Server computer accessible to all user computers
SOLIDWORKS PCB	Standalone PCB design program typically used by an electrical designer	ECAD user computer
SOLIDWORKS PCB Connector	Extension for Altium Designer to allow it to connect to SOLIDWORKS PCB Services, enabling 3D integration	ECAD user computer running Altium Designer
SOLIDWORKS PCB Add-In	Add-in for SOLIDWORKS 3D (typically used by a mechanical designer), allowing it to connect to SOLIDWORKS PCB Services and push changes back to SOLIDWORKS PCB	MCAD user computer running SOLIDWORKS 3D



SOLIDWORKS 3D with PCB Add-in

Installation Types

SOLIDWORKS PCB can be installed in a shared or local configuration.

In a shared configuration, **SOLIDWORKS PCB Services** is installed on a server computer or another computer that is accessible over the network to all the user computers. The user computers run either **SOLIDWORKS PCB**, **PCB Connector** or the **SOLIDWORKS PCB Add-In**. These components all connect to **SOLIDWORKS PCB Services** over the network. This is illustrated in the image above.

In a local configuration, **SOLIDWORKS PCB Services** is installed on the same computer as the design tools (**SOLIDWORKS PCB Add-In** and **SOLIDWORKS PCB** or **SOLIDWORKS PCB Connector**). This would typically be used if one user works independently on the electrical and mechanical PCB design aspects, without collaboration.



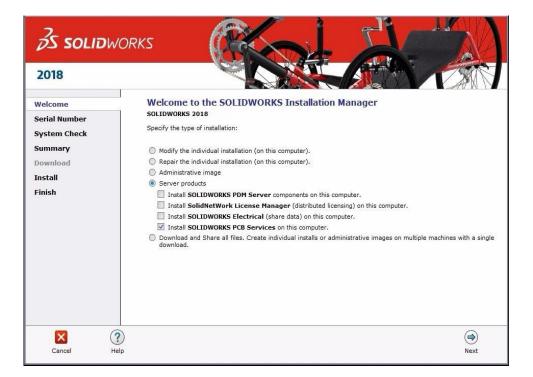
Before Installation

Hawk Ridge Systems highly recommends taking a moment before installing SOLIDWORKS and ensuring you are ready to load your new software. First, check the following links to ensure minimum system requirements (<u>http://www.solidworks.com/sw/support/SystemRequirements.html</u>) and the video card (<u>http://www.solidworks.com/sw/support/videocardtesting.html</u>) compatibility is met. 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**. **SOLIDWORKS** cannot open files from newer versions.

Installing SOLIDWORKS PCB Services

This section installs the **SOLIDWORKS PCB Services** program.

- 1. Select **Server Products** on the **Welcome** screen and navigate to **SOLIDWORKS PCB Services**.
- 2. Check the box next to **SOLIDWORKS PCB Services**, and click **Next**.



3. Specify the installation location, database folder, revisions file folder, and port number by selecting **CHANGE**, next to PCB Options on the **Summary Page**, for custom settings. Click **Back to Summary** when finished. We recommend keeping the default values for all options here.



4. CHANGE or accept the default(s), shown in the screenshots below, then click Download and Install.

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2018	No. Contraction of the second	
Welcome	Summary	
Serial Number System Check	SOLIDWORKS PCB Services	s <u>CHANGE</u>
Summary Download Install Servers	Installation location: Database folder: Revisions file folder: Port number:	C:\ProgramLIDWORKS Corp 2018\SOLIDWORKS PCB Services C:\ProgramData\SOLIDWORKS\SOLIDWORKS PCB Services C:\ProgramData\SOLIDWORKS\SOLIDWORKS PCB Services\Revisions 9780
Finish	Download Options Operation: Download to: Download method: Background downloader:	CHANGE Download and install C:\Users\ven\DoOLIDWORKS Downloads\SOLIDWORKS 2018 Automatic download; Maximize speed Do not use Estimated additional installation size: 588 MB
	✓ I accept the terms of the SOI License Agreement	LIDWORKS Estimated download size: 175 MB
Cancel Help		Back Download an Install

- 5. Open a browser and go to the URL http://machinename:9780, where machinename is the name of the computer running SOLIDWORKS PCB Services and 9780 is the port used at step 3 above (e.g. http://server01:9780). Note that machinename can be specified as localhost if you are connecting to SOLIDWORKS PCB Services from the same computer on which it is installed. We suggest bookmarking this page for easy access to the SOLIDWORKS PCB Services interface.
- 6. Log in with the user name **admin** and password **admin**.

Sign	in to SOLIDWORKS P	CB Services
Username	admin	
Password		

7. Click on USERS > Add User, then use the form to enter information for a new user. Repeat this for all the users that will be connecting to **SOLIDWORKS PCB Services**. Note that users can be added to roles and new roles can be created. Roles can then be used to control user permissions to **SOLIDWORKS PCB** data.

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Roles LDAP Sync L	censina Sessions	x	+	 User
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*Last Name:			=	
Authentication:	Built in			 10
•User Name:				×
em *Password:				 ж
*Email:				
Phone:				
	Role Name	Member		
User Roles:	No data to display			
New Roles:				
new Koles.		ve Cancel		

8. After adding all users, click on the **VCS** tab to show the DefaultRepository. Click on the **Share** button to bring up the Manage Permissions dialog. Add users or roles to the repository to give the users added at step 7 access to this repository. Note that you can create multiple repositories with different users having different permissions to each.

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	Users Roles				+ Add	ternal		Share	Remov
DefaultRepository							1	~	ж
	SVN User	READ	WRITE	Edit	Remove				
		N	N	1	×				

- 9. Click **Sign Out** when finished.
- 10. Note that all user computers will need to be able to communicate with **SOLIDWORKS PCB Services** over the network on the port specified at step 3. Add exceptions to all firewalls or security programs that might affect this communication.



Client Installation

REMINDER: If upgrading from a previous version of SOLIDWORKS PCB, we strongly recommend backing up data before proceeding.

- 1. Make sure you are logged in as the administrator.
- 2. Disable all anti-virus and anti-spyware tools and turn off Windows User Account Control.
- 3. Locate your **SOLIDWORKS 2018** installation media (DVD or download) and launch the setup application (setup.exe). You should see the **Welcome** screen for the **SOLIDWORKS Installation Manager**. Select **Individual (on this computer)** and click **Next**.

35 solid	NORKS
2018	
Welcome Serial Number System Check Summary Download Install Finish	Welcome to the SOLIDWORKS Installation Manager SoliDWORKS 2018 Specify the type of installation: Individual (on this computer) Administrative image Server product Download and Share all files. Create individual installs or administrative images on multiple machines with a single download.
Cancel	() Help Next

4. You will then see the **Serial Number** screen where you can enter your serial number for your **SOLIDWORKS PCB** installation. Note that you do not need to enter multiple serial numbers if your **SOLIDWORKS** serial number is the same as your **SOLIDWORKS PCB** serial number. Click **Next**.

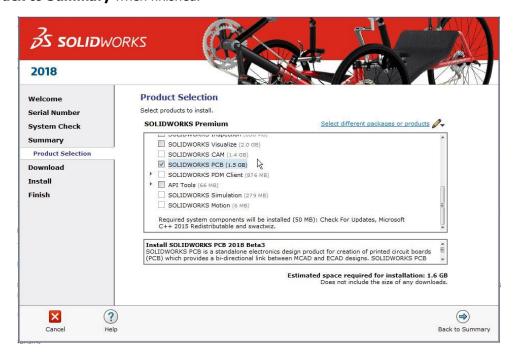
S SOLIDW	DRKS
2018	
Welcome	Serial Number
Serial Number	Enter your serial number information or log in to automatically populate serial numbers
System Check Summary Download Install Finish	3D Design SOLDWORKS CAD Visualize Misualize Boost Simulation Flow Simulation, Motion, Plastics, Simulation CAM
	Technical Communication Composer, Composer Player Pro, Inspection, MBD
	Electrical Design
	SOLIDWORKS Electrical Schematic
	✓ SOLIDWORKS PCB
× (۵ ا
Cancel He	Back Next



- The SOLIDWORKS Installation Manager will verify your serial number and perform an automatic system check for any existing versions of SOLIDWORKS or SOLIDWORKS PCB. Take note of any messages or warnings during this step.
- 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		
2018		
Welcome Serial Number	Summary This is a new installation of 2018	
System Check Summary Download Install Finish	SOLIDWORKS PCB Note: Required system components will be install C++ 2015 Redistributable and swactwiz.	CHANGE 🖉
	 Download Options Installation Location 	CHANGE 🖉
	☑ I accept the terms of the SOLIDWORKS License Agreement	Estimated installation size: 1.6 GB Estimated download size: 569 MB
Cancel He		Back Downlo Download

7. Click **CHANGE** next to **Products** to go to the **Product Selection** screen. Scroll down and ensure that **SOLIDWORKS PCB** is checked **ON**. Nested here are the individual **SOLIDWORKS** products. Click **Back to Summary** when finished.

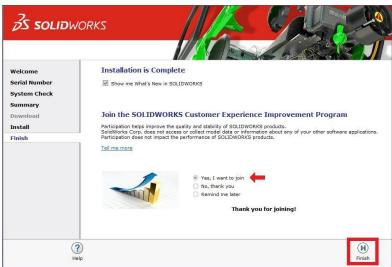




- 8. In the **Download Options**, we recommend disabling the **Background Downloader**, as it is known to cause issues with upgrades. Click **CHANGE** next to **Download Options**, then deselect **Use the background downloader**. Click **Back to Summary** when finished.
- 9. Confirm that all the information on the **Summary** screen is correct. Accept the license agreement then click **Download and Install** to begin the installation.

35 SOLID WC	orks		1
2018	No. 1		I
Welcome	Summary This is a new installation of 2018		
Serial Number	Products	CHANGE 🤌	
System Check	SOLIDWORKS PCB		
Summary	Note: Required system	components will be installed (50 MB): Check For Updates, Microsoft	
Download Install Finish	C++ 2015 Redistr	ributable and swactwiz.	
	Download Options		Ī
	Operation:	Download and install	
	Download to:	C:\Users\jaredkOLIDWORKS Downloads\SOLIDWORKS 2018	
	Download method:	Automatic download; Maximize speed	
	Background downloader:	Do not use	
	Installation Location	CHANGE 🤌	
	Installation location:	C:\Program Files\SOLIDWORKS Corp	ų
	✓ I accept the terms of the SOL License Agreement	LIDWORKS Estimated installation size: 1.6 GB Estimated download size: 569 MB	
		(a) (A) N	
Cancel Help		Back Download and	
Concer Help		Install	

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. When the software is launched for the first time after 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. When running **SOLIDWORKS PCB** for the first time, you may be prompted to allow **SOLIDWORKS PCB** through the firewall. Allow it, if so.
- 13. Follow the activation prompts to activate your **SOLIDWORKS PCB** license. Please refer to our article <u>2018 Product Activation</u> for more information on license activation and deactivation.

	SOLIDWORKS PCB Product Activation
-	Thank you for installing SOLIDWORKS. You must activate your installation to fully enable all of the features. This wizard will guide you through the activation process.
130/2	What would you like to do ?
34	 I want to activate my SOLIDWORKS product now You can use this computer or another computer connected to the internet.
-120-	C I want to activate my SOLIDWORKS product later
1.6384/	There are 30 day(s) left in your grace period:
-02	When this period ends, you must activate your SOLIDWORKS product to continue using it.
SS SOLID WOR	<2

14. At the SOLIDWORKS PCB Start screen, click File > Sign in SOLIDWORKS PCB Services, or click Start a New PCB Project.

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New PCB Project	Help			
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Save All	Start			
New Document	Start a new PCB Project			
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Sign in SOLIDWORKS PCB Services	Project Documents			
Help +				
Street Lease 100, etc.	8			
1				

15. In the sign in dialog, for Server Address, enter the name of the computer running SOLIDWORKS PCB Services and the port number in the format machinename:9780. Note that machinename can be specified as localhost if SOLIDWORKS PCB Services is installed on the same computer as SOLIDWORKS PCB (i.e. when using a local configuration). Also enter your Username and Password, as specified at step 6 of the SOLIDWORKS PCB Services installation (section 2). Click Login to start using SOLIDWORKS PCB.



onnecting to SC	DLIDWORKS PCB Services	23
Please, sigr	n in to SOLIDWORKS PCB Services	
Server address:	Ū.	Ŧ
Username:		
Password:		
	Remember the credentials	
	Sign me in when I start SOLIDWORKS PCB	

Installing SOLIDWORKS PCB Add-In

SOLIDWORKS 2016-2018

The **SOLIDWORKS PCB Add-In** is installed by default with **SOLIDWORKS 3D 2016 SP3** and above. If you are running an earlier service pack of **SOLIDWORKS 3D 2016**, upgrade to SP3 or above.

1. To access the **SOLIDWORKS PCB Add-In**, run **SOLIDWORKS 3D** then go to Tools > Add-Ins > **SOLIDWORKS PCB 2016-2018** and click the check box to enable it. This will add the **SOLIDWORKS PCB** tab to the task pane on the right of the **SOLIDWORKS 3D** window.

Active A	Add-ins	Start Up	Last Load Time	-
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8	SOLIDWORKS Utilities	100	< 1s	
∏ KÎ	TolAnalyst		< 15	
	IDWORKS Add-ins			
1	Autotrace		< 1s	
	SOLIDWORKS Composer		< 15	-
- \$	SOLIDWORKS Electrical		2s	
	SOLIDWORKS Flow Simulation 2016		36 s	
🖻 👼	SOLIDWORKS Forum 2016	100	< 1s	
	SOLIDWORKS Inspection		1223	
100	SOLIDWORKS Plastics	and the second s	6s	
🗆 Oth	er Add-ins			101
	3D Instant Website		122	
100	SOLIDWORKS 3DEXPERIENCE SmartLink	100	< 1s	
1	SOLIDWORKS PCB 2016	V	Зs	
100 N	SOLIDWORKS XPS Driver 2016		375	

2. Select the SOLIDWORKS PCB tab from the Task Pane in SOLIDWORKS 3D. Select either New Board Assembly or Pull Board From Vault to bring up the SOLIDWORKS PCB Services sign in dialog. For Server Address, enter the name of the computer running SOLIDWORKS PCB Services and the port number in the format machinename:9780. Note that machinename can be specified as localhost if SOLIDWORKS PCB Services is installed on the same computer as



SOLIDWORKS 3D (i.e. when using a local configuration). Also enter your Username and Password, as specified during the **SOLIDWORKS PCB Services** installation. Click **OK** to start using the **SOLIDWORKS PCB AddIn**.

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		«	SOLIDWO			+
SOLIDWORKS PCB Services		St New B		🛼 Pull Boi		¢ -
Services address (Server: Port):		The curren	t assembly is	not linked ti	o a PCB desi	gn.
Usemame:						
Password: OK Cancel						
OLID WORK	2					
201	6					

Installing SOLIDWORKS PCB Connector

Skip this section if you purchased **SOLIDWORKS PCB** instead of **SOLIDWORKS PCB Connector**.

- 1. Sign into your Altium Account if you are not signed in automatically.
- 2. Launch Altium Designer, open the **DXP** tab, then click **Extensions and Updates**.
- 3. On the **Extensions and Updates** page, scroll down to **SOLIDWORKS PCB Connector**, then click the download icon in the top-right corner to begin the installation.



- 4. In the Confirm dialog box, click **Yes** to proceed with the installation.
- 5. On the **SOLIDWORKS PCB Connector Registration** page, enter your **SOLIDWORKS PCB Connector** serial number and click **Register**.
- 6. On the Confirm dialog, either click **Yes** to restart the system and complete the installation, or click **No** to complete the restart later.



Appendix: License Transfer

You are allowed one activation per standalone license, for your business computer and for your home computer. As part of the license agreement, you may not use both simultaneously.

Each activation transaction is coded to the hardware of your computer. If you are moving your **SOLIDWORKS PCB** installation to a new computer, you will need to transfer 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 PCB** 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 transfer process.

This process is not required for a new installation. If your computer does not have internet access, refer to the <u>E-mail Transfer</u> section of this document.

Online Transfer

- 1. Go to Start > All Programs > **SOLIDWORKS 2018** > **SOLIDWORKS PCB**.
- 2. Once SOLIDWORKS PCB launches, click on the File tab and choose Help>Deactivate Licenses...

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File	lutputs
New PC <u>B</u> Project	,♂ⅢⅢ○↓
New Integrated Library	Net Bus Bus Port Power Label Entry Port *
Open Project	X Test PCB_SWX_CWX Project.SchDoc
Open Recent	
Save Project	A
Save All	
New Document	
Open Document	
Save	
Save <u>A</u> s	
Import	
Sign out from SOLIDWORKS PCB Services	
Help 🔓 🔸	Help Open Documentation
System <u>P</u> references) System <u>Preferences</u>	Activate Licenses Activate SOLIDWORKS PCB License
	Deactivate Licenses Deactivate SOLIDWORKS PCB License

3. Choose to transfer **Automatically over the Internet** and click **Next**.



How would you like to transfer?

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 transferred.



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

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

E-mail Transfer

- 1. Go to Start > All Programs > **SOLIDWORKS 2018** > **SOLIDWORKS PCB**.
- 2. Once SOLIDWORKS PCB launches, click on the File tab and choose Help>Deactivate Licenses...

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Ne	w PC <u>B</u> Project		37	115	孤	\bigcirc	
P Ne	w Integrated Library		et E bel	Bus	Bus Entry	Port	Pov
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Sa.	ve						
Sa	ve <u>A</u> s						в
Im	port						
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He	ip 🔓		Hel		cumen	tation	
	System Preferences	t)	Act	ivate	Licens SOLIDV	es	
		2	Dea			nses DWORKS	8

3. Choose to activate **Manually via e-mail** and click **Next**.



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

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 PCB to complete the transfer.

- 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 move it to a machine with internet access.
- 6. E-mail this file as an attachment to <u>activation@solidworks.com</u>.
- 7. **SOLIDWORKS** will send a return e-mail with a different .txt file attached. Save this file to a removable storage device and move it to the machine awaiting the activation transfer.
- 8. In the activation wizard, press the **Open** button on the e-mail activation page.
- 9. Browse to the response file and press the **Open** button.
- 10. The next page will show you that your transfer is complete.
- 11. Press the **Finish** button to complete the process.

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