

# INSTALLATION GUIDE

## SOLIDWORKS PCB 2016



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# 1

## Overview

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SOLIDWORKS® PCB is a PCB (printed circuit board) design tool integrated with the SOLIDWORKS 3D design software to enhance collaboration between electrical and mechanical designers. You can make changes to component placement, board shape, and mounting holes on a PCB in the SOLIDWORKS 3D design software, and sync those changes with SOLIDWORKS PCB using easily-managed engineering change orders (ECOs).

To use SOLIDWORKS PCB in conjunction with the SOLIDWORKS software you need:

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

Altium Designer can also be integrated with the SOLIDWORKS software. To use Altium Designer in conjunction with the SOLIDWORKS software you need:

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

SOLIDWORKS PCB is a PCB design tool. It is installed separately from the SOLIDWORKS software.

SOLIDWORKS PCB Services provides a communication link between SOLIDWORKS PCB and the SOLIDWORKS software. It includes Microsoft Internet Information Services and a database that stores data used to synchronize the work of the electrical and mechanical designers.

SOLIDWORKS PCB Services is installed separately from the SOLIDWORKS software, but does not require a separate license. In network environments it is typically installed on a share server that is not running the SOLIDWORKS software. However, it can also be installed with other SOLIDWORKS PCB components on a single machine. SOLIDWORKS PCB Services must be running at all times. It must also have uninterrupted, bidirectional communication through firewalls and virus scanners with clients running SOLIDWORKS PCB and the SOLIDWORKS software, and with any clients running Altium Designer that are going to be integrated with the SOLIDWORKS software.

SOLIDWORKS PCB Add-In allows SOLIDWORKS software clients to integrate with SOLIDWORKS PCB and Altium Designer. It is pre-installed by default by SOLIDWORKS 2016 SP3, and can be separately installed for SOLIDWORKS 2015 SP5.

SOLIDWORKS PCB Connector is an add-in to the Altium Designer client that allows it to integrate with the SOLIDWORKS software using SOLIDWORKS PCB Services. It is installed from the Altium Designer client.

This chapter includes the following topics:

- **Prerequisites and System Requirements**

## Prerequisites and System Requirements

Before installing, you must have the following prerequisites:

- a SOLIDWORKS PCB serial number.
- a SOLIDWORKS PCB Connector serial number for any Altium Designer clients that are going to be integrated with the SOLIDWORKS software.

Ensure that your machine meets the following system requirements, prior to installing the software.

<b>SOLIDWORKS PCB</b>	
Operating System:	Windows 7 or newer
RAM:	4Gb+
Processor:	Intel® Core™ i3 processor or equivalent
Disk Space:	1.2 Gb (Install + User Files)

<b>SOLIDWORKS PCB Services</b>	
Operating System:	Windows 7 or newer/ Windows Server 2008 or newer
RAM:	6Gb+
Processor:	Intel Core i3/i5 processor or equivalent (2 or more cores)
Disk Space:	20Gb

# 2

## Installation

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You can access all the SOLIDWORKS PCB install software from the Downloads page of the Dassault Systèmes SOLIDWORKS Customer Portal.

Then from the SOLIDWORKS tab, download the install files for:

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

This chapter includes the following topics:

- [Installing SOLIDWORKS PCB](#)
- [Installing SOLIDWORKS PCB Services](#)
- [Installing SOLIDWORKS PCB Add-In for SOLIDWORKS 2015 SP5 Clients](#)
- [Installing the SOLIDWORKS PCB Connector for Altium Designer](#)

### Installing SOLIDWORKS PCB

#### To install SOLIDWORKS PCB:

1. When the Setup Wizard launches, click **NEXT** to continue with the installation.
2. On the License Terms page, click **I AGREE**.
3. On the Serial Number page, enter the SOLIDWORKS PCB serial number and click **NEXT**.
4. On the Destination Folders page, enter destination folders for program files and shared documents, and click **NEXT**.
5. On the Ready to Install page, click **NEXT** to continue with the installation.
6. On the Installation Complete page, click **FINISH**.

### Installing SOLIDWORKS PCB Services

#### To install SOLIDWORKS PCB Services:

1. When the Setup Wizard launches, click **Next** to continue with the installation.
2. On the License Terms page, accept the license terms and click **Next**.
3. On the Select Destination Location page, enter a destination folder for the SOLIDWORKS PCB Services files, and click **Next**.
4. On the Select SOLIDWORKS PCB Services Data Directory page, enter destination folders for the SOLIDWORKS PCB Services database and revisions files, and click **Next**.

5. On the SOLIDWORKS PCB Services Configuration page, accept the default port of 9780 or enter another open port, and click **Next**.
6. When a dialog box prompts to install the Microsoft Internet Installation Services package, click **Yes**.
7. On the Completing the SOLIDWORKS PCB Services Setup Wizard page, click **Finish**.

## Changing the Default Admin Login

SOLIDWORKS PCB Services provides a default administrator account with the following credentials:

- admin for Username
- admin for Password

For better security, it is highly recommended that you change the login credentials for this account.

### To change the default admin login:

1. Open a web browser, and in the address bar, enter the machine name and port number in the form: `http://server name:port number`.  
The default port number is 9780.
2. On the Sign in to SOLIDWORKS PCB Services page, enter `admin` as the username and `admin` as the password, and click **Sign In**.
3. On the SOLIDWORKS PCB Services menu, click **Users** and click the **Users** tab.
4. Click the link associated with the admin account or click the **Edit User** icon .
5. Modify the user information, username, and password.
6. Click **Save**.

## Installing SOLIDWORKS PCB Add-In for SOLIDWORKS 2015 SP5 Clients

The SOLIDWORKS PCB Add-In is installed on workstations where designers are running the SOLIDWORKS software. It is pre-installed by default by SOLIDWORKS 2016 SP3.

You can install it separately for SOLIDWORKS 2015 SP5.

### To install SOLIDWORKS PCB Add-in with a SOLIDWORKS 2015 SP5 client:

1. Go to the Downloads page of the SOLIDWORKS Customer Portal, and from the SOLIDWORKS 2015 tab, download the SOLIDWORKS PCB Add-in file.
2. When the Setup Wizard launches, click **Next** to continue with the installation.
3. On the Select Destination Location page, enter the destination folder where you want to install the SOLIDWORKS PCB Add-in, and click **Next**.
4. On the Ready to Install page, click **Install** to continue with the installation.
5. On the Installation Complete page, click **Finish**.

# Installing the SOLIDWORKS PCB Connector for Altium Designer

Altium Designer is a PCB (printed circuit board) design tool. Users who have licensed and installed Altium Designer can integrate it with the SOLIDWORKS software by installing the SOLIDWORKS PCB Connector.

## To install SOLIDWORKS PCB Connector on a machine running Altium Designer:

1. Sign in to your Altium Account if you are not signed in automatically.
2. Launch Altium Designer, open the DXP tab, and click **Extensions and Updates**.
3. On the Extensions and Updates page, click the **Purchased** tab.
4. Scroll down to the Software Extensions section. Then on SOLIDWORKS PCB Connector, click the down arrow in the top right corner of the tile to download and begin the installation.



5. In the Confirm dialog box, click **Yes** to continue with the installation.

**Note:** You must perform steps 6 and 7 in the order specified to avoid activation and installation problems.

6. On the PCB Connector Registration page, enter the SOLIDWORKS PCB Connector serial number and click **Register**.
7. In the Confirm dialog box, displayed by the Altium Designer application, click **Yes** to restart the system and complete the installation or click **No** to complete the installation later.

To deactivate a SOLIDWORKS PCB Connector license, on the **Help** menu, click **SOLIDWORKS PCB Connector Licensing > Deactivate Licenses**.

# 3

## Post Installation

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After installing SOLIDWORKS PCB and its components, you can add user accounts to SOLIDWORKS PCB Services, so that users can access boards from the repository.

Additional tasks include instructions for logging into the SOLIDWORKS PCB Add-in repository and uninstalling the software.

This chapter includes the following topics:

- **Adding a User to SOLIDWORKS PCB Services**
- **Logging into the SOLIDWORKS PCB Add-in Repository**
- **Uninstalling SOLIDWORKS PCB Services**

### Adding a User to SOLIDWORKS PCB Services

To add a user in the SOLIDWORKS PCB Services website:

1. Open a web browser and in the address bar, enter the server name and port number assigned to SOLIDWORKS PCB Services. For example, in the form: `http://server name:port number`.
2. On the Sign in to SOLIDWORKS PCB Services page, enter your administrator username and password, and click **Sign In**.
3. On the SOLIDWORKS PCB Services menu, click **Users** and click the **Users** tab.
4. Click the **Add User** button and type the following:
  - **First Name**
  - **Last Name**
  - **User Name**
  - **Password**
  - **Email address**
  - **Phone number**

Also, you must select a **User Role** and check the **Member** box to associate the user with a group.

5. Click **Save**.

The user is listed in the User tab. You can edit the user information as needed.

### Logging into the SOLIDWORKS PCB Add-in Repository

In SOLIDWORKS, when you select a new board or pull an existing board from the PCB Add-in Task Pane, you must login to SOLIDWORKS PCB Services to access the repository.

**To login and access the SOLIDWORKS PCB Add-in repository:**

1. From the SOLIDWORKS Task Pane, click the SOLIDWORKS PCB Add-in button .
2. Click **New Board Assembly** or **Pull Board From Vault**.
3. Login to SOLIDWORKS PCB Services:
  - a) Specify the server name and port number assigned to SOLIDWORKS PCB Services.  
For example, type in the form: `http://server name:port number`.
  - b) Type your **Username** and **Password**, and click **OK**.

## Uninstalling SOLIDWORKS PCB Services

**To uninstall SOLIDWORKS PCB Services:**

1. Click **Start > All Programs > SOLIDWORKS version > SOLIDWORKS PCB Services > Uninstall SOLIDWORKS PCB Services**.
2. When you are prompted to remove SOLIDWORKS PCB Services and its components, click **Yes**.
3. When you are prompted to delete all SOLIDWORKS PCB Services data, click **No**.

You must click **No** if you want to prevent all data and revision files from being deleted permanently.