





© 2023 CIM-TECH.COM, Inc.

Solid-CIM 3D Users Guide

© 2023 CIM-TECH.COM, Inc.

All rights reserved. No parts of this work may be reproduced in any form or by any means - graphic, electronic, or mechanical, including photocopying, recording, taping, or information storage and retrieval systems - without the written permission of the publisher.

Products that are referred to in this document may be either trademarks and/or registered trademarks of the respective owners. The publisher and the author make no claim to these trademarks.

While every precaution has been taken in the preparation of this document, the publisher and the author assume no responsibility for errors or omissions, or for damages resulting from the use of information contained in this document or from the use of programs and source code that may accompany it. In no event shall the publisher and the author be liable for any loss of profit or any other commercial damage caused or alleged to have been caused directly or indirectly by this document.

Published: July 2023

CIM-TECH.COM, Inc. 7512 Dr. Phillips Blvd. Suite 50-859 Orlando, FL 32819 United States www.cim-tech.com

Toll-Free Technical Support: (877) 549-8211

Table of Contents

SCIM Syst	em Requirements	and Installation	4
1	SCIM Product Overview		. 7
2	Installation Guide		. 8
3	SCIM Authorization File		14

Solid-CIM 3D Minimum System Requirements

For 64-bit Systems

- Microsoft® Windows® 11 (64-bit) or Microsoft® Windows® 10 (64-bit) version 1809 or above.
- 2.5-2.9 gigahertz (GHz) or greater (Recommended: 3.0+ GHz or greater, 4 or more cores). ARM Processors are not supported.
- 8GB of RAM (32GB or more for 3D Modeling)
- 10GB or more Free disk space for Installation (40GB or more for 3D Modeling). SSD suggested.
- 1920 x 1080 True Color video display adapter 128 MB or greater, Pixel Shader 3.0 or greater, with "Recommended" graphics card (3840 x 2160 (4K) with preferred scaling: 100%, 125%, 150% or 200% on Windows®, 64-bit systems with capable display card)
- Microsoft® Internet Explorer 11.0 (or equivalent) or later web browser with network connection
- 2 GB GPU with 29 GB/s Bandwidth and DirectX 11 compliant (Recommended: 8GB GPU with 106 GB/S Bandwidth and DirectX 12 compliant)
- o .NET Framework Version 4.8 or later
- o 1 Available USB port
- o DVD Drive

You should check your hardware against the supported software versions to be sure of compatibility with your version of AutoCAD, Autodesk, Solid Edge or SOLIDWORKS products.

Supported AutoCAD Versions AutoCAD 2022 (64-bit Systems Only) AutoCAD 2023 (64-bit Systems Only) AutoCAD 2024 (64-bit Systems Only)

Supported Autodesk Inventor Versions

Autodesk Inventor 2022 (64-bit Systems Only) Autodesk Inventor 2023 (64-bit Systems Only) Autodesk Inventor 2024 (64-bit Systems Only)

Supported Autodesk Fusion 360 Versions

Autodesk Fusion 360 2022 (64-bit Systems Only) Autodesk Fusion 360 2023 (64-bit Systems Only) Autodesk Fusion 360 2024 (64-bit Systems Only)

Supported Autodesk Revit Versions

Autodesk Revit 2022 (64-bit Systems Only) Autodesk Revit 2023 (64-bit Systems Only) Autodesk Revit 2024 (64-bit Systems Only)

Supported SW (SOLIDWORKS) Versions

SOLIDWORKS 2022 (64-bit Systems Only) SOLIDWORKS 2023 (64-bit Systems Only) SOLIDWORKS 2024 (64-bit Systems Only)

Supported Solid Edge Versions Solid Edge 2022 (64-bit Systems Only)

Solid Edge 2022 (64-bit Systems Only) Solid Edge 2023 (64-bit Systems Only) Solid Edge 2024 (64-bit Systems Only)

Hardware Locks

In addition to the hardware requirements listed above, it is important to note that Solid-CIM 3D requires a hardware lock in order to operate. Upon completion of the Solid-CIM 3D installation, make sure to open AutoCAD and start Solid-CIM 3D.

Note: Type 1 Hypervisor Appliance Compatibility Warning: Please be aware that neither Router-CIM, Solid-CIM or Radan's Autonest USB hardware locks are compatible with any Type 1 Hypervisor appliance, including, but not limited to, Microsoft Hyper-V, Oracle VM, KVM and Citrix Hypervisor. These products ARE compatible with Type 2 Hypervisor appliances, such as VMWare's VM Workstation.

Solid-CIM 3D Product Overview Solid-CIM 3D is a program created by CIM-Tech.com, Inc. to allow the export of 3D models, complete with "Features" into a format suitable to be processed by Router-CIM or Router-CIM Automation Suite.

The output of Solid-CIM 3D is a separate part drawing (.dwg) file for each part in an assembly with features on specific layers relating to their size or type. These drawings are suitable for use in Router-CIM or the Router-CIM Automation Suite.

Solid-CIM 3D supports an internal Autodesk Inventor Link, SOLIDWORKS Link, Solid Edge Link, Autodesk Revit Link and Autodesk Fusion 360 Link to directly export parts or assemblies from these products into Router-CIM. You can additionally use Solid-CIM 3D on any solids created by AutoCAD, or solids that can be imported into AutoCAD.

The Solid-CIM 3D (SCIM) program provides an easy interface to review Solid-CIM 3D results, name parts and apply materials to parts in an assembly.

Solid-CIM 3D converts selected 3D solids into Solid-CIM 3D Parts. A Solid-CIM 3D Part is a group of objects that consist of the selected solid, two Cut Side hatch objects and various polylines and circles that represent the Features of the Solid-CIM 3D Part. After the selected Solids have been converted to Solid-CIM 3D Parts, several Solid-CIM 3D options are available to view and examine the results of Solid-CIM 3D.

There is also provided a CSV file that contains all the parts of the assembly in a format that can be imported into the Router-CIM Automation Suite for automated programming.

Installation and Configuration

From CD:

Insert the Solid-CIM 3D Installation DVD and it will start automatically. If the installation does not start automatically, navigate to D:\SETUP.EXE (where D: is the CD ROM drive letter) and double-click the SETUP.EXE file.

From Download:

To install Solid-CIM 3D from a download, simply double-click on the downloaded file to start the install.

When the installation program starts, the following screen will appear:



From here, all of the default selections have been made for you. We recommend that you leave the defaults, as it will be simpler for you later if technical support is needed and you need to know the locations of the Solid-CIM 3D files.

Select 'Next' to continue.

Solid-CIM3D Setup	×
License Agreement Please read the following license agreement carefully)
SOFTWARE END USER LICENSE AGREEMENT	^
This End User License Agreement, including the Quotation which by this reference is incorporated herein (this "Agreement"), is a binding agreement between CIM-Tech.com, Inc. ("CIM-Tech") and the person or entity identified on the Quote as the licensee of the Software ("Licensee").	~
I agree to the terms of this license agreement I do not agree to the terms of this license agreement	
< Back Next > Cancel	

This is the license agreement for Solid-CIM 3D. Be sure you read the agreement. Selecting 'I do not agree to the terms of this license agreement' will allow you to exit the program without installing Solid-CIM 3D to your computer. Selecting 'Back' will return you to the previous window.

Select 'I agree to the terms of this license agreement' and 'Next' to continue.

The next screen will allow you to select any supported version to install the SCIM Connect feature.

9

SCIM System Requirements and Installation

🖏 Solid-CIM3D Setup	×
Options Select the options you want and click Next to continue.	
Please select any of the following options to install Solid-CIM Connect for tha software:	t 3D modeling
Autodesk Inventor	
SolidWorks	
Solid Edge	
Autodesk Fusion 360	
Autodesk Revit	
Note: You may select as many options as you want.	Gancel

Select the supported version you have already installed and **'Next'** to continue.

Note: AutoCAD is default and the Solid-CIM Connect is for additional programs if needed.

🛃 Solid-CIM3D Setup	×
Ready to Install You are now ready to install Solid-CIM3D 2024.0.0.19	
The installer now has enough information to install Solid-CIM3D on your c	computer.
The following settings will be used:	
Install folder: C:\Program Files\CIM-Tech.com, Inc\Solid-CIM3D	
Shortcut folder: \SolidCIM3D	
Please click Next to proceed with the installation.	
< <u>B</u> ack <u>N</u> ext >	Cancel

This screen will recap where Solid-CIM 3D is going to be installed to. Select '**Next'** to continue.



The installer will start copying files to the necessary locations in this section of the install.

Once that is finished, the install of Solid-CIM 3D is completed and the following screen will appear:



Select 'Finish'.

Solid-CIM 3D has been successfully installed on your computer. Please make sure to request the Authorization file (rcimauth.key) from support@cim-tech.com.

For more information on the Authorization file, go to the 'SCIM Autothorization File' section.

Solid-CIM 3D Authorization File

Once Solid-CIM 3D has been installed, you will need to submit for an Authorization File. To obtain this file, you will need to open AutoCAD.

Once AutoCAD is opened, start Solid-CIM 3D by selecting on the Solid-CIM 3D toolbar or ribbon and selecting this icon:

Note: Make sure your Router-CIM USB or stand-alone Solid-CIM 3D Hardware Lock is inserted prior to starting Solid-CIM 3D

Solid-CIM 3D Toolbar Icon:



Solid-CIM 3D Ribbon Icon:

This message will appear:



When the message appears, send an email to support@cim-tech.com and reference the Lock Serial # that appears. An email will be sent back to you with a file called rcimauth.key.

This file will need to be copied from the email and placed into the Router-CIM folder on your C drive (C:\Router-CIM):

→ → ↑ 🚺 C:\Router-C	M		✓ ♂ Search Router-CIM	\$
	Name ^	Date modified	Туре	Size
🖈 Quick access	CI BCIM.SLD	4/25/2016 3:39 PM	SLD File	5
S OneDrive	RCIM55.DCL	4/25/2016 3:39 PM	AutoCAD Dialog Definition	3
onebine	rcimauth.key	10/14/2014 7:27 AM	KEY File	
This PC	rcimauth.rcim	10/7/2016 11:53 AM	RCIM File	
Network	RCIMCLN.LOV	4/25/2016 3:39 PM	LOV File	
- IVELWOIK	RcimImage.wmf	10/6/2016 2:30 PM	WMF File	
Homegroup	RcimImageMaker.fas	10/4/2016 2:09 PM	AutoCAD Fast-load AutoLISP File	
	rcimloadcore.fas	10/4/2016 2:08 PM	AutoCAD Fast-load AutoLISP File	
	a rcim-Nc_seq.dcl	4/25/2016 3:39 PM	AutoCAD Dialog Definition	
	rcim-Nccodeop.dcl	4/25/2016 3:39 PM	AutoCAD Dialog Definition	
	rcim-ncp.mnu	4/25/2016 3:39 PM	AutoCAD Menu Template	
	RCIMTABS.DAT	4/25/2016 3:39 PM	DAT File	
	rcLabelGen.exe	3/21/2016 7:29 AM	Application	
	rcShortCutGen.exe	9/15/2011 10:26 AM	Application	
	层 Rdnlic.exe	9/7/2016 3:55 PM	Application	3
	Rect2job.dll	9/7/2016 3:55 PM	Application extension	3
	RECUT.fas	10/4/2016 2:09 PM	AutoCAD Fast-load AutoLISP File	
	💿 register32.bat	4/25/2016 3:39 PM	Windows Batch File	
	💿 register64.bat	4/25/2016 3:39 PM	Windows Batch File	
	ROUTER.fas	10/4/2016 2:09 PM	AutoCAD Fast-load AutoLISP File	
		4/35/3016 3:30 014	CEL EIL.	

Solid-CIM 3D will now be authorized for use.



(877) 549-8211