

# SIEMENS



## Installing Software

The software is called the TIA (Total Integrated Automation) Portal. The TIA Portal is really a combination of several industry leading titles. You might have received a collection of DVDs containing the software, or a link to Online Software Delivery (OSD). However you obtain the software you will need to install The STEP 7 Basic/Professional for Course2: Siemens Manufacturing and Automation. If you have received a disk set please check the version number on the disks. It will be in the form of SIMATIC STEP 7, S7-PLCSIM, STEP 7 Safety and WinCC V18. The version number follows the letter V and the license is tied to the version.

I want to:

[Install software from a disk](#)

[Downloading installation files](#)

[Downloading WinCC Panel Image files for HMI Communication](#)

[License the software](#)

[Download and install the automation license manager](#)

[Obtaining the on-line license](#)

[Setting up a license server](#)

[Obtaining help](#)

## Software from Disk

If your software came by DVD, you must save the Certificate of License that is attached to the DVD case. This certificate will allow Siemens to regenerate the license if for some reason the computer housing that license is no longer functioning.



Inside the DVD case are several sleeves of disks. You will need the one marked Simatic Step 7 Basic/Professional. Also in the disk set is a black thumb drive that houses the license. The license will be needed to utilize the software.



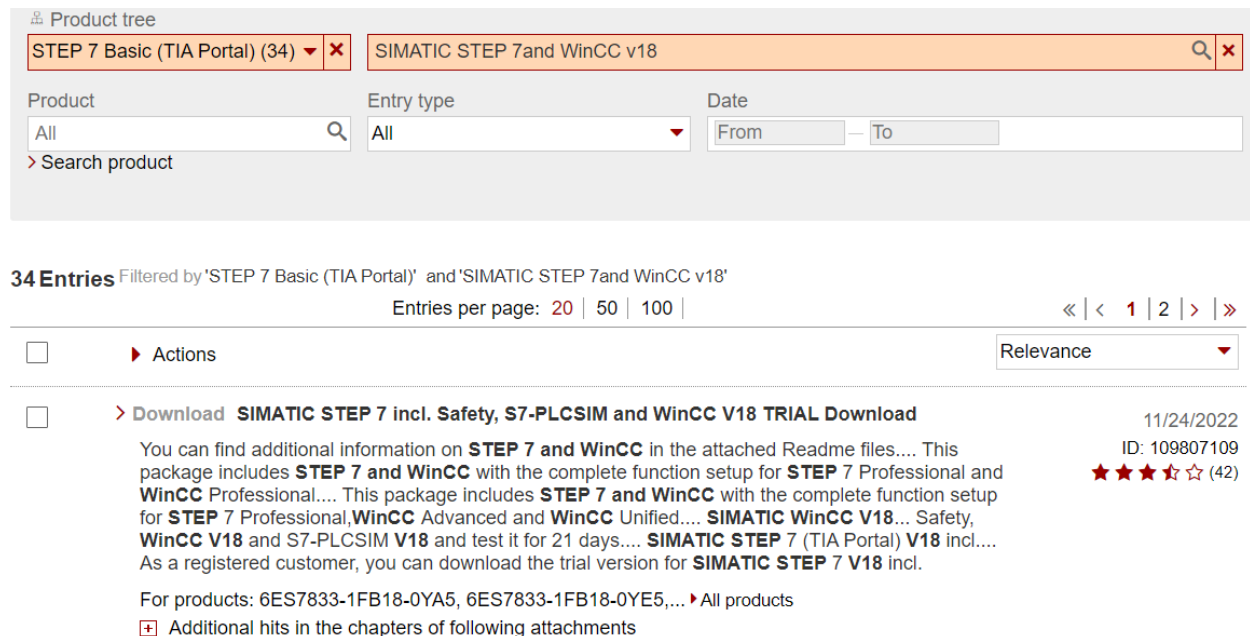
If you have a DVD drive and wish to install the software you will need to install disk one of the Simatic Step 7 Basic/Professional set. For most installations it is easier to have a digital version to work with.

## Downloading Installation files

If you need to download installation files for the installation those can be found on the Industry Online Support page. <https://support.industry.siemens.com/cs/start?lc=en-US>. If you do not have a login for the site, you will need to create one. Once logged in you can enter in the name of the software and version in the search box.



This will take you to a menu. Generally, you can download a trial version and it is found at the top of the list of links. This example is using the Version 18 (V18 ) of the software.



Product tree

STEP 7 Basic (TIA Portal) (34) x SIMATIC STEP 7and WinCC v18

Product: All Entry type: All Date: From - To

> Search product

**34 Entries** Filtered by 'STEP 7 Basic (TIA Portal)' and 'SIMATIC STEP 7and WinCC v18'

Entries per page: 20 | 50 | 100 |

<< | < | 1 | 2 | > | >>

Actions Relevance

> Download **SIMATIC STEP 7 incl. Safety, S7-PLCSIM and WinCC V18 TRIAL Download** 11/24/2022  
ID: 109807109  
★★★★☆ (42)

You can find additional information on **STEP 7 and WinCC** in the attached Readme files.... This package includes **STEP 7 and WinCC** with the complete function setup for **STEP 7 Professional** and **WinCC Professional**.... This package includes **STEP 7 and WinCC** with the complete function setup for **STEP 7 Professional, WinCC Advanced** and **WinCC Unified**.... **SIMATIC WinCC V18**... **Safety, WinCC V18** and **S7-PLCSIM V18** and test it for 21 days.... **SIMATIC STEP 7 (TIA Portal) V18** incl.... As a registered customer, you can download the trial version for **SIMATIC STEP 7 V18** incl.

For products: 6ES7833-1FB18-0YA5, 6ES7833-1FB18-0YE5,... ▶ All products

+ Additional hits in the chapters of following attachments

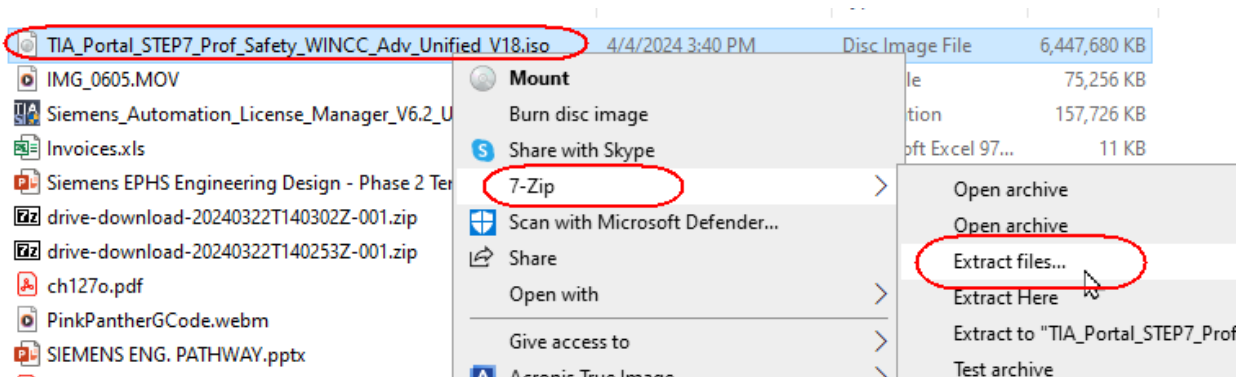
This example is using Version 18 and the link took us to <https://support.industry.siemens.com/cs/document/109807109/simatic-step-7-incl-safety-s7-plcsim-and-wincc-v18-trial-download?dti=0&lc=en-AF>

Once on the page, the upper part of the page are links to various ReadMe files about the software and licenses.

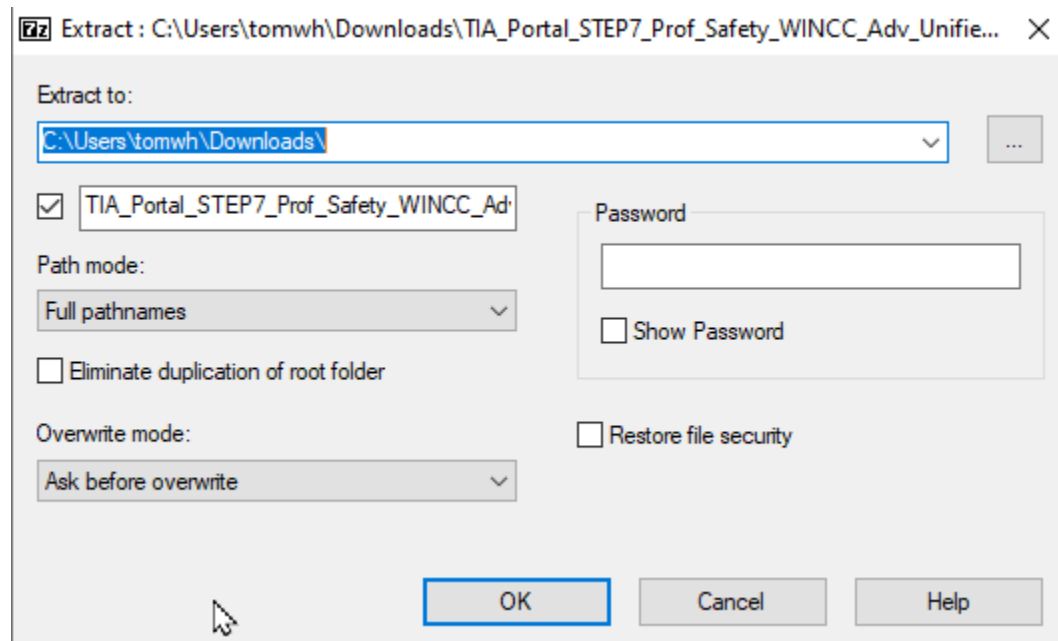
Scroll down the page until you come to DVD 1 Setup.




This is a disk image file for the necessary software to install. Click on the link. The download will begin and place the disk image file in your downloads. You can unpack the image using 7-zip (<https://7-zip.org/>) Select Extract and it will pull the files out to a new folder for you.



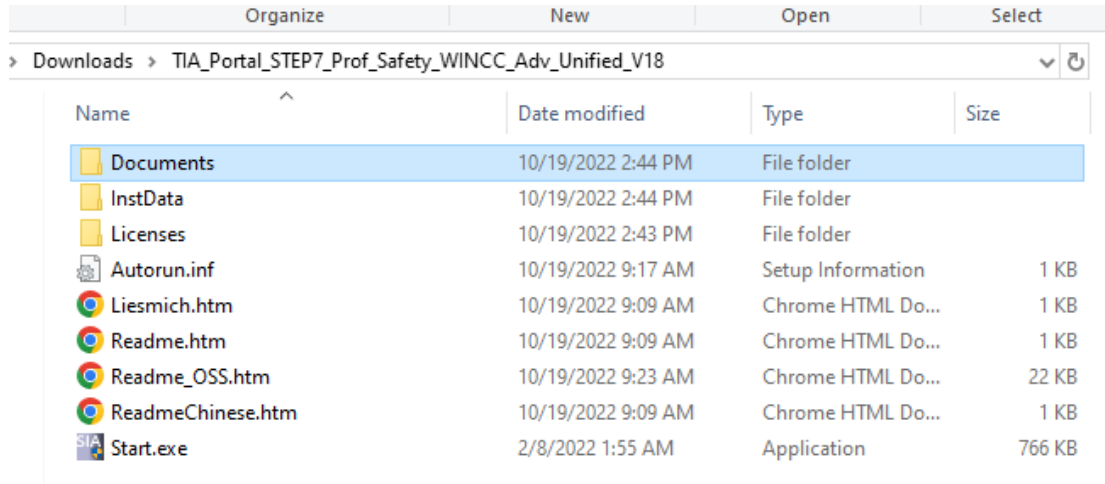
The next window allows you to save the file to a desired location and provide a new name if desired.



Select OK and the 7-zip program will extract the files to the designated folder.

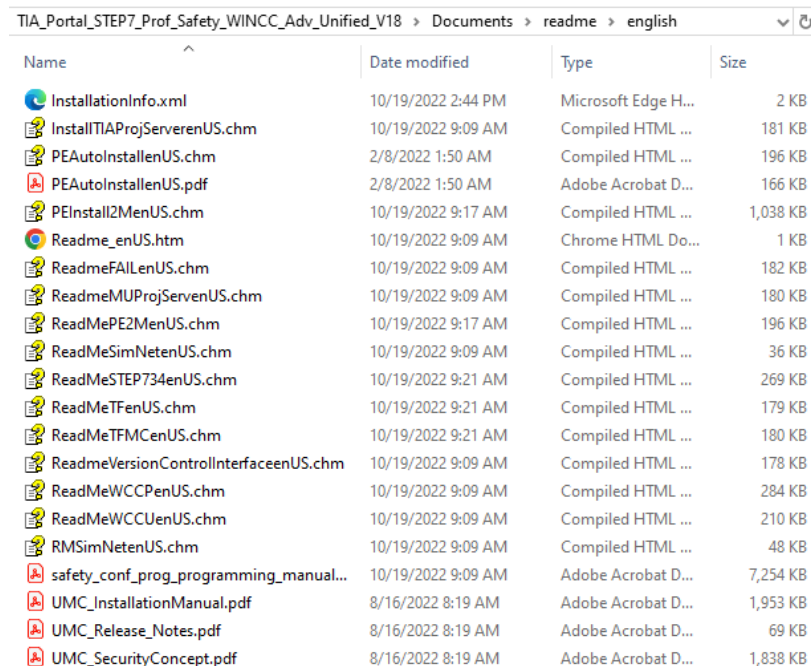
 TIA\_Portal\_STEP7\_Prof\_Safety\_WINCC\_Adv\_Unified\_V18

Inside the folder you will find files for the installation and information about the software and licensing.



Name	Date modified	Type	Size
Documents	10/19/2022 2:44 PM	File folder	
InstData	10/19/2022 2:44 PM	File folder	
Licenses	10/19/2022 2:43 PM	File folder	
Autorun.inf	10/19/2022 9:17 AM	Setup Information	1 KB
Liesmich.htm	10/19/2022 9:09 AM	Chrome HTML Do...	1 KB
Readme.htm	10/19/2022 9:09 AM	Chrome HTML Do...	1 KB
Readme_OSS.htm	10/19/2022 9:23 AM	Chrome HTML Do...	22 KB
ReadmeChinese.htm	10/19/2022 9:09 AM	Chrome HTML Do...	1 KB
Start.exe	2/8/2022 1:55 AM	Application	766 KB

For information on other types of installations open the documents folder and look for the readme folder. Inside the readme folder is one marked English. Inside you will find various documents for items such as automated installation (PEAutoInstallenUS.pdf) and other topics.









Name	Date modified	Type	Size
InstallationInfo.xml	10/19/2022 2:44 PM	Microsoft Edge H...	2 KB
InstallTIAProjServerenUS.chm	10/19/2022 9:09 AM	Compiled HTML ...	181 KB
PEAutoInstallenUS.chm	2/8/2022 1:50 AM	Compiled HTML ...	196 KB
PEAutoInstallenUS.pdf	2/8/2022 1:50 AM	Adobe Acrobat D...	166 KB
PEInstall2MenUS.chm	10/19/2022 9:17 AM	Compiled HTML ...	1,038 KB
Readme_enUS.htm	10/19/2022 9:09 AM	Chrome HTML Do...	1 KB
ReadmeFAILenUS.chm	10/19/2022 9:09 AM	Compiled HTML ...	182 KB
ReadmeMUProjServerenUS.chm	10/19/2022 9:09 AM	Compiled HTML ...	180 KB
ReadMePE2MenUS.chm	10/19/2022 9:17 AM	Compiled HTML ...	196 KB
ReadMeSimNetenUS.chm	10/19/2022 9:09 AM	Compiled HTML ...	36 KB
ReadMeSTEP734enUS.chm	10/19/2022 9:21 AM	Compiled HTML ...	269 KB
ReadMeTFenUS.chm	10/19/2022 9:21 AM	Compiled HTML ...	179 KB
ReadMeTFMCenUS.chm	10/19/2022 9:21 AM	Compiled HTML ...	180 KB
ReadmeVersionControllInterfaceenUS.chm	10/19/2022 9:09 AM	Compiled HTML ...	178 KB
ReadMeWCCPenUS.chm	10/19/2022 9:09 AM	Compiled HTML ...	284 KB
ReadMeWCCUenUS.chm	10/19/2022 9:09 AM	Compiled HTML ...	210 KB
RMSimNetenUS.chm	10/19/2022 9:09 AM	Compiled HTML ...	48 KB
safety_conf_prog_programming_manual...	10/19/2022 9:09 AM	Adobe Acrobat D...	7,254 KB
UMC_InstallationManual.pdf	8/16/2022 8:19 AM	Adobe Acrobat D...	1,953 KB
UMC_Release_Notes.pdf	8/16/2022 8:19 AM	Adobe Acrobat D...	69 KB
UMC_SecurityConcept.pdf	8/16/2022 8:19 AM	Adobe Acrobat D...	1,838 KB

For a single computer installation select the Start.exe file in the top level folder.. Restart the computer at the end of the installation.

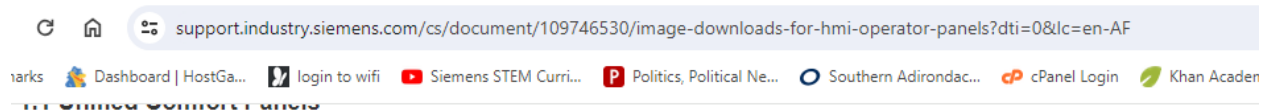
## WinCC Panel Images

Course 3: Siemens Mechatronics and IoT will need the STEP 7 Basic and in addition will also need the installation files for WinCC Panel Images so the HMI panels will operate. You will find a link to the panel images from the original V18 download page. This example uses the V18 Version.


<https://support.industry.siemens.com/cs/document/109807109/simatic-step-7-incl-safety-s7-plcsim-and-wincc-v18-trial-download?dti=0&lc=en-AF>

<b>DVD 1 Setup</b> STEP 7 Basic / Prof. STEP 7 Safety Basic / Advanced WinCC Basic / Comfort / Advanced / Professional Engineering	  TIA_Portal_STEP7_Prof_Safety_WINCC_Prof_V18.iso (6,7 GB) (SHA-256)
<b>DVD 2</b> Hardware Support Packages, Open Source Software, Tools	  TIA_Portal_STEP7_Prof_Safety_WINCC_DVD_2_V18.iso (5,6 GB) (SHA-256)
<b>WinCC Panel Images</b> Image-Downloads for HMI-panels	 109746530
<b>Information on SHA-256 checksum</b>	 109483101

Select the link to take you to the page, in this case it is <https://support.industry.siemens.com/cs/document/109746530/image-downloads-for-hmi-operator-panels?dti=0&lc=en-AF>. This page contains instructions for loading the software as well as the various images. Course 3, Mechatronics and IoT, uses the Basic Panel so select the link for that.




The image downloads for the Unified Comfort Panels can be found under the following link:

 [> Image-Downloads for SIMATIC HMI Operator Panels: Unified Comfort Panels](#)

### 1.2 Unified Basic Panels

The image downloads for the Unified Basic Panels can be found under the following link:

 [> Image Downloads for SIMATIC HMI Operator Panels: Unified Basic Panels](#)

### 1.3 Comfort / Mobile / Basic Panels









The image downloads for the SIMATIC HMI Comfort / Mobile / Basic Panels can be found under the following link:

[> Image Downloads for SIMATIC HMI Operator Panels: Comfort / Mobile / Basic Panels](#)


This will take you to yet another page

(<https://support.industry.siemens.com/cs/document/109825897/image-downloads-for-simatic-hmi-operator-panels-unified-basic-panels?dti=0&lc=en-AF>) . In this case there are two versions offered that will work with the V18 version of the software. There is a WinCC image setup that contains the image files for all the associated Operator Panels. The WinCC image setup contains a "Setup Wizard" that guides you through the installation and installs the image files into the appropriate place.

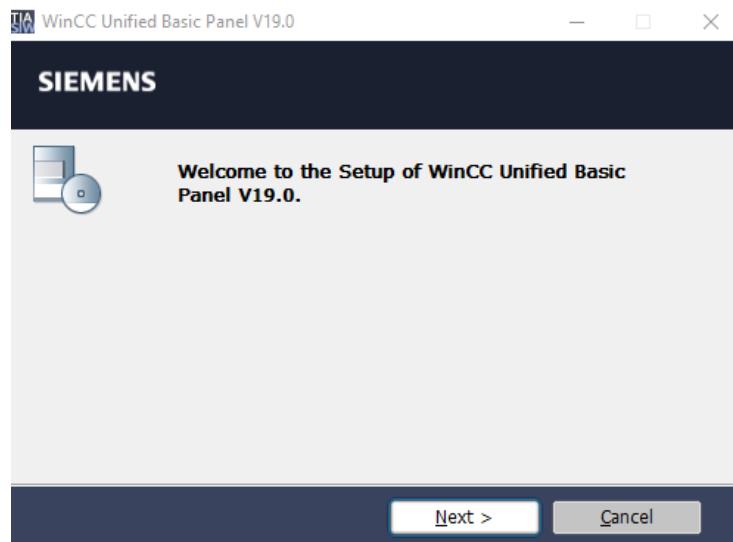
#### 1.1 Unified Basic Panels V19, V18

Version	Image Download
<b>V19 recommended for update</b>	
V19.0 Upd. 1	  109825897_Unified_Basic_Panel_V19_0_Upd1.exe (1,0 GB) (SHA-256)
<b>V19 backup only</b>	
V19.0	  109825897_Unified_Basic_Panel_V19_0.exe (1,0 GB) (SHA-256)
The ZIP-File contains important notes and information about each of the image versions listed above.	
	  109825897_WinCC_Unified_Basic_Panels_V19_Readme.zip (2,2 MB)
<b>V18 backup only</b>	
V18.0	  109825897_Unified_Basic_Panel_V18_0.exe (1,0 GB) (SHA-256)
The ZIP-File contains important notes and information about each of the image versions listed above.	

This process downloads an executable to the downloads folder.

 109825897\_Unified\_Basic\_Panel\_V19\_0\_Upd1.exe

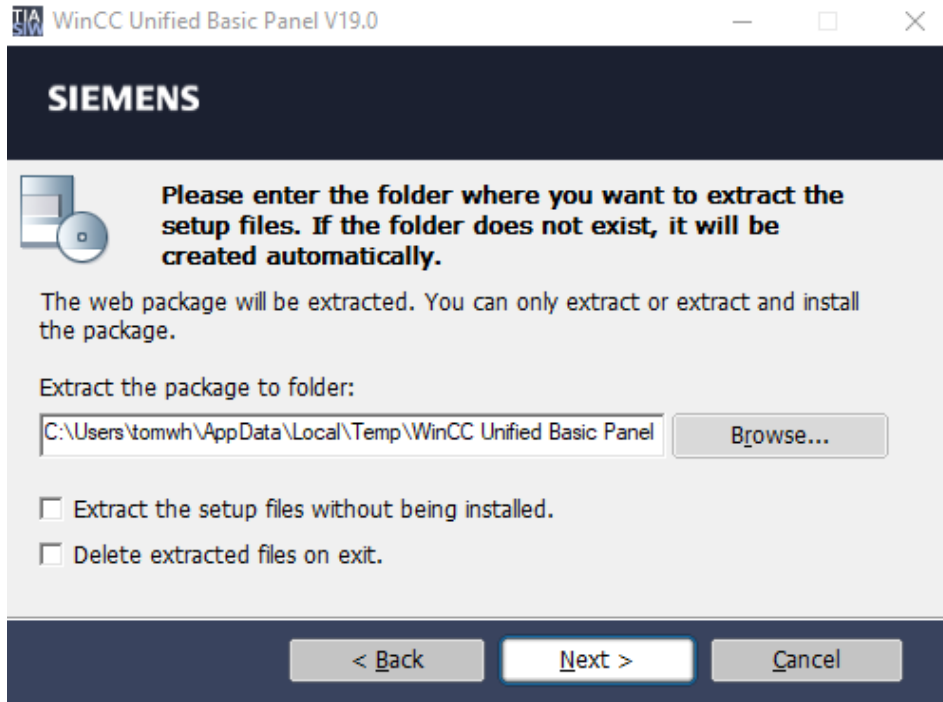
When you double click on the file in the downloads folder it will perform the system user account control to allow it to install. Once you accept that you should see the welcome screen.



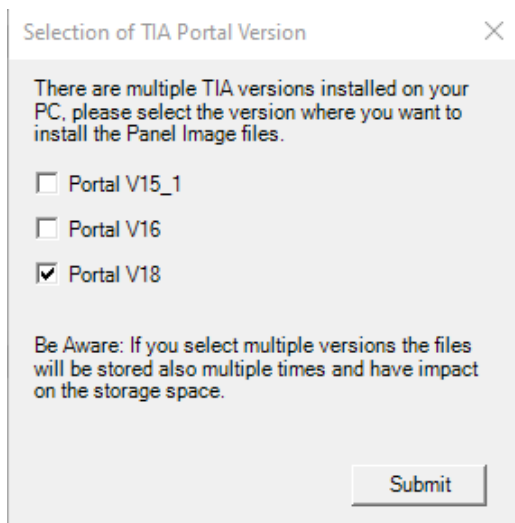
Select next. Select English as the language. Select Next.

Now you will be prompted where to extract the files to. Similar to the software install this defaults to the installers temp folder. This example uses

C:\Users\tomwh\AppData\Local\Temp\WinCC Unified Basic Panel V19.0. If you wish to take these files to another location in the future this is where you will find them.

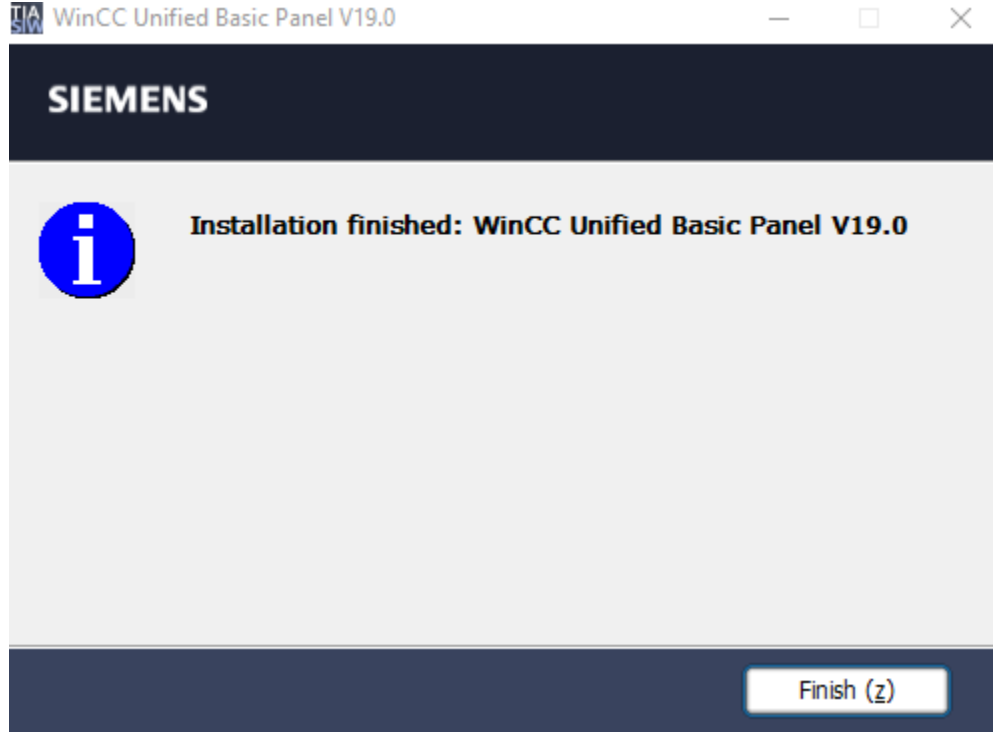


Selecting next will begin the installation. If you have more than one installation on the computer it will prompt you for the version number. In this instance the Portal V18 is selected.





The installation will finish and the panel images will be ready for use.



Restart the computer.

## Licensing the Software

Once the software is installed it must be licensed for use. If you downloaded the trial version of the software it will have a 15-day license which you can replace with the license file sent with the software.

You can access the license manual from C:\Program Files\Siemens\Automation\Automation License Manager>manualalmapp\_b.pdf. The procedure for updating the license is found between pages 30-34

## Downloading and installing the Automation Manager and On-Line Licenses

If you received a note from the Siemens Online Software Delivery your license will be delivered on line. You will need to download the Automation License Manager. The link to download the license manager is



[https://support.industry.siemens.com/cs/document/114358/handling-programs-for-authorization-or-licensing-of-simatic-products-\(alm-authors\)?dti=0&lc=en-WW](https://support.industry.siemens.com/cs/document/114358/handling-programs-for-authorization-or-licensing-of-simatic-products-(alm-authors)?dti=0&lc=en-WW)

Select the link for Siemens\_Automation\_License\_Manager

## Installation

You can find more information in the ALM readme file: Proceed as follows for installation:

1. Close all programs before starting the setup.
2. Start the downloaded file "Siemens\_Automation\_License\_Manager\_V6.2\_Upd1.exe" to unzip the installation files.
3. Then go to the directory with the unzipped files and start the file "Setup.exe" there.
4. Now follow the instructions in the installation program.

  Siemens\_Automation\_License\_Manager\_V6.2\_Upd1.exe (154.0 MB) (SHA-256)  
SHA256: 0f432af0710a08e7b43318553dcb1de47a264a609bafb350e245db6ac7dfce9f

You will be prompted to login. If needed, you can create a new account by selecting the option first time here.

# SIEMENS

Login now at Siemens Industry Online Support

Are you already registered?

Login

Password

> Forgotten your password/ login?





Login

First time here?

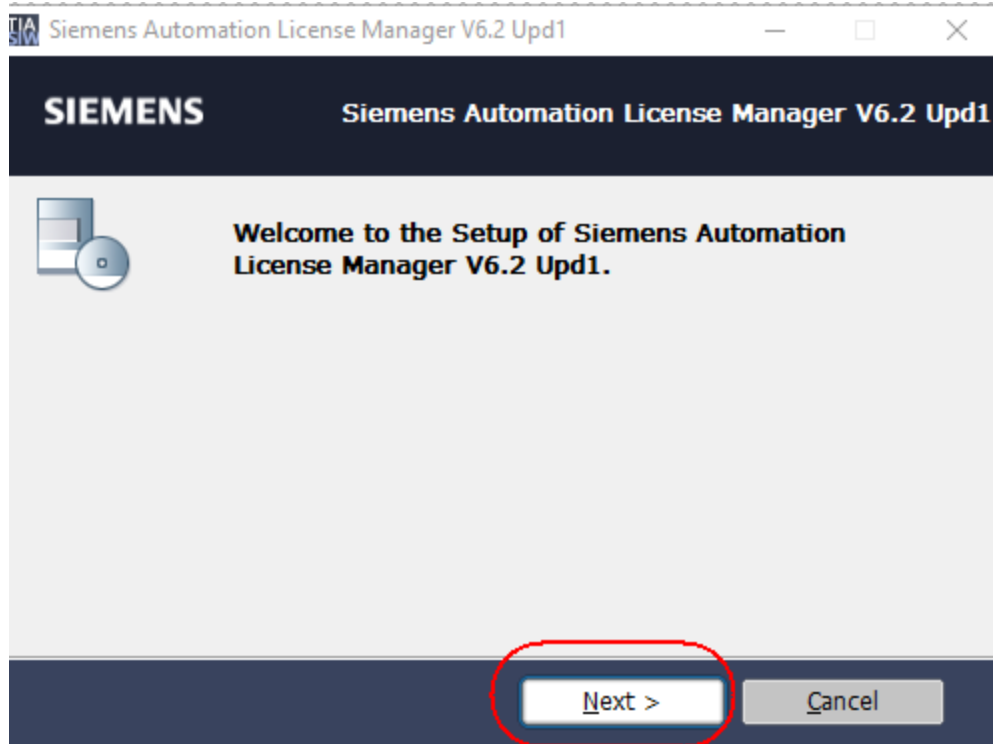
Register now to use the full range of functionality of the Internet appearance of Siemens. For each of the different applications only one registration is required!

> Yes, I would like to register now.

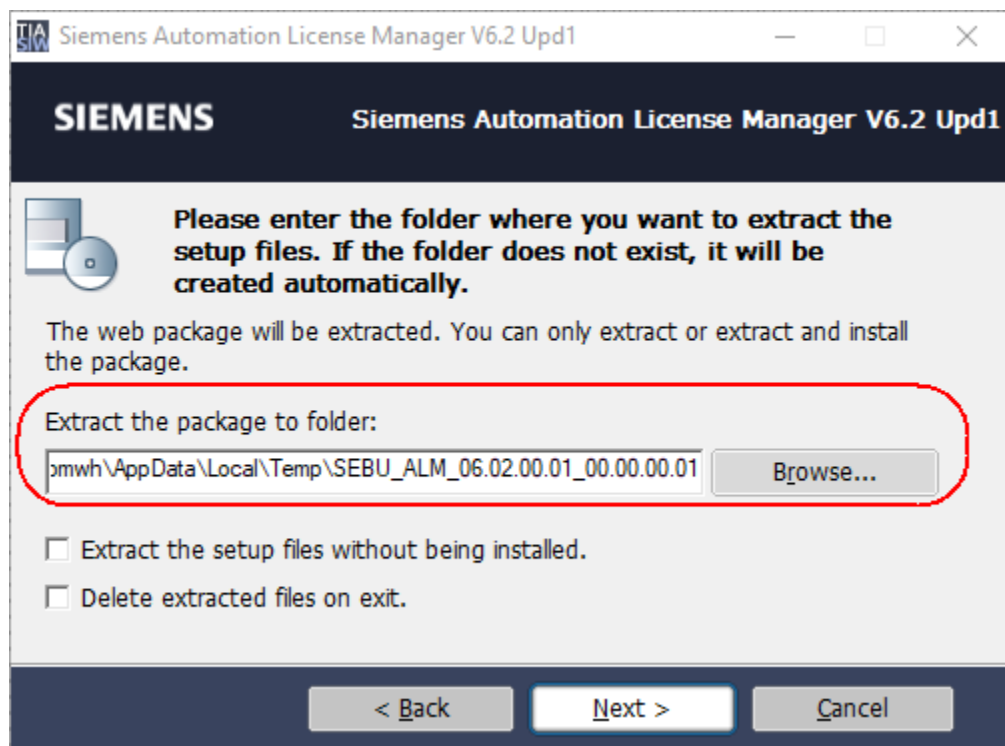
Once signed in you will be able to download the software. This software will be needed on every computer that will need to get a license as well as the computer you select as the license server if you wish to use one. The software is saved in the downloads folder and will have the current version as the name.

 Siemens Power Supply	4/9/2022 9:35 AM	File folder	
 3Dpuzzle	2/15/2022 12:10 PM	File folder	
 Solid Edge SECAMPro 2021 1938	12/7/2021 1:47 PM	File folder	
 Siemens_Automation_License_Manager_V6.2_Upd1.exe	4/2/2024 11:26 AM	Application	157,726 KB

Double click on the executable and agree to let it make changes to the device in the user account control. This will bring up the installation setup for the Siemens Automation License Manager. Select Next.

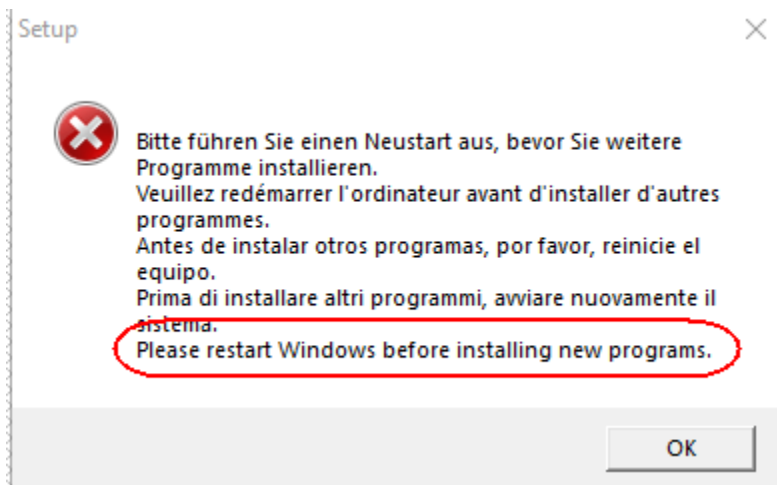


In the dialog box you can extract to the default location and proceed to install on that computer. The file containing the extracted files can be copied to other computers if there is a desire to set up in multiple locations.



SDIAG_51063013-79ca-4090-b090-4719d3...	3/8/2022 10:55 PM	File folder
SDIAG_b7518bbe-8733-4666-ada8-62e2d...	3/8/2022 10:55 PM	File folder
SDIAG_c424cb28-0d46-4759-ad4f-4c8eda...	5/24/2022 1:12 AM	File folder
SDIAG_f1bc7327-1636-41f5-ba9e-6c665c...	3/8/2022 10:55 PM	File folder
<b>SEBU_ALM_06.02.00.01_00.00.00.01</b>	<b>4/2/2024 11:36 AM</b>	<b>File folder</b>
SESimulation	7/11/2023 1:46 PM	File folder
Setup000032d4	6/15/2022 12:51 AM	File folder
Setup00001408	12/10/2021 11:10 PM	File folder
SharkCNC_Generic_3AX_VM	6/30/2022 1:38 AM	File folder
SE-PL-CC-1-3AX_VM	7/10/2023 12:35 AM	File folder

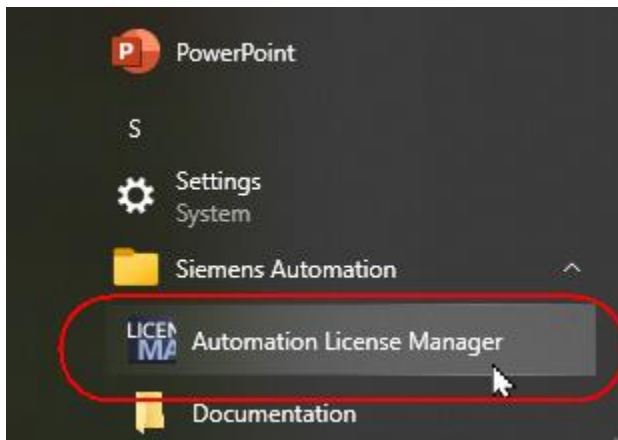
Once installed you might be asked to restart Windows.



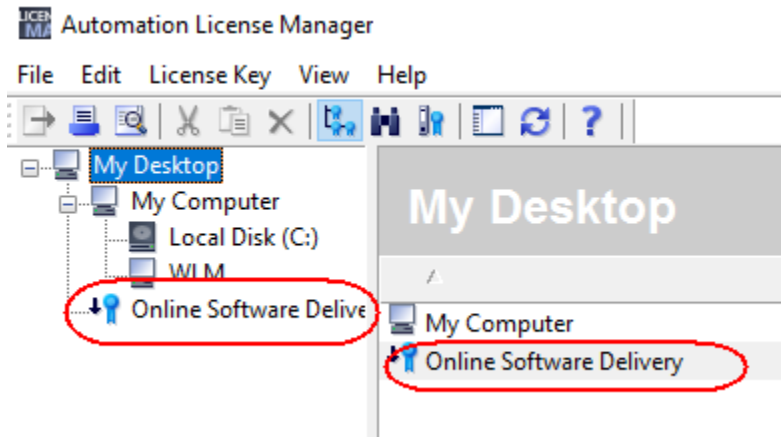
After the restart you should be able to find the Automation License Manager listed in the Siemens Automation section of the all programs menu.

### Obtaining the on-line license

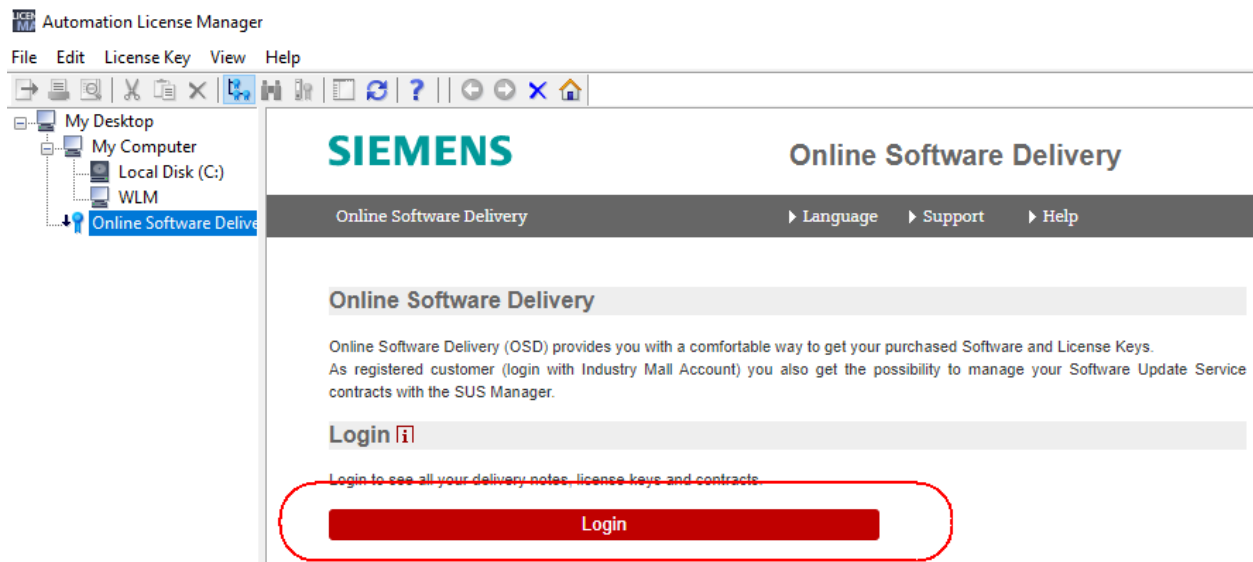
Open the Automation License Manager.



Start the automation license manager. When the license manager opens select the option of Online Software Delivery from one of the menus.

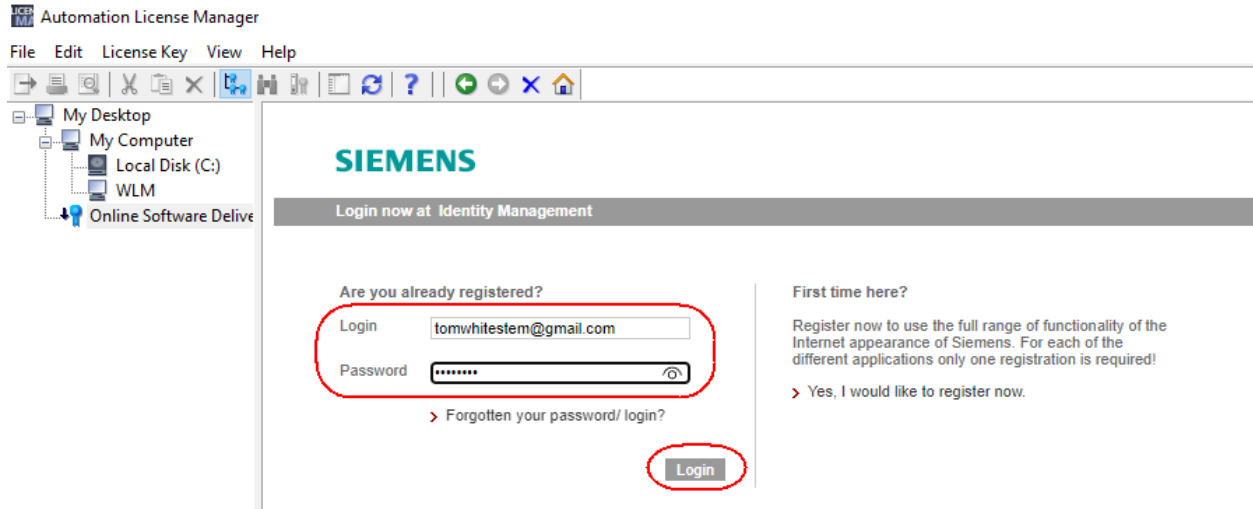


This should take you to the log in screen.

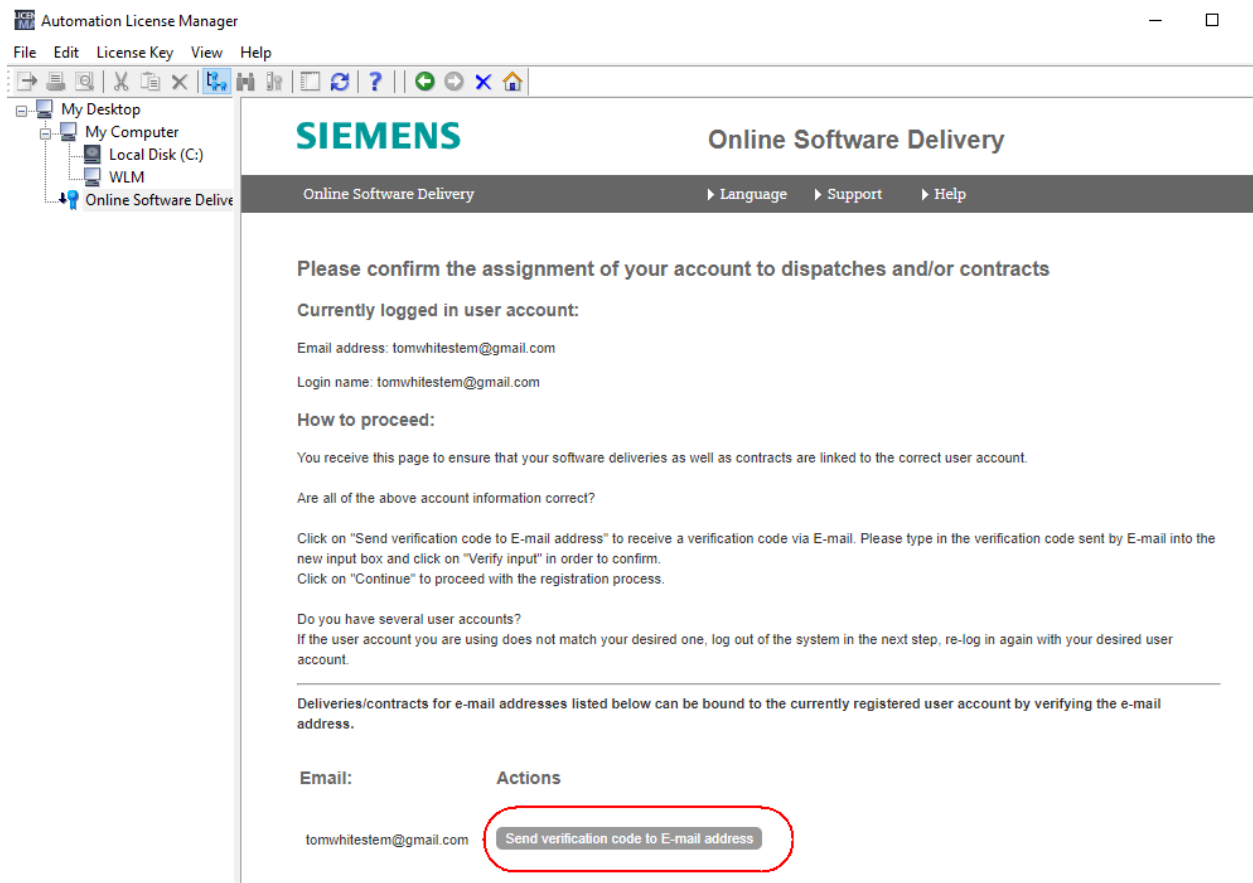


Select Login.

Enter in your login name and password used earlier to download the license manager.



The page wants to affirm your account and wants to send a verification code to your email account. Select the send verification code button



Find the verification code in your email. Enter the verification code in the box and select verify input

account.

Deliveries/contracts for e-mail addresses listed below can be bound to the currently registered user account by verifying the e-mail address.

Email:	Actions
tomwhitestem@gmail.com	<input type="text" value="Y4QAWS"/> <input type="button" value="Verify input"/> <input type="button" value="Resend"/> E-mail sent at April 3, 2024 1:38 PM

Once verified you should see the indication that you have been accepted. Select Continue.

Deliveries/contracts for e-mail addresses listed below can be bound to the currently registered user account by verifying the e-mail address.

Email:	Actions
tomwhitestem@gmail.com	<input checked="" type="checkbox"/> verified

Check the boxes for the download location and export control. Then select continue.

Confirmation of delivery address and Export Control Clause ×

**Delivery address**

Email:

Address:  [Modify address](#)

I confirm that the download is executed in the displayed country of delivery address / login address.  
Export regulations: see Siemens Terms of Use - Chapter 10  
[Export Regulations \(en\)](#)

I accept the export control clause for distribution contracts.

The message will explain how to drag the license to the correct location.

Information

For license transfer with ALM only: Please drag the License Key with the „available“ symbol and drop it in the target drive to transfer it. It's possible to transfer the License Keys with the followings levels:

- bundle on delivery note level
- single on line item level

“Mouse over” a license key shows more details about its status (e.g. available, already transferred etc.).

Our new wibu Licenses (purple Drag&Drop Icon) are handled the same way. Drag the license to a subfolder of the "License Containers" and let it drop on one of the elements. After a couple internal checks online transfer initiates and confirms the operation after about 10sec.

- ⚠ The license has already been partially downloaded.
- ❗ The ALM version is incompatible
- ✅ The licence has already been transferred.
- ℹ Start ALM (Automation License Manager) to transfer licenses.

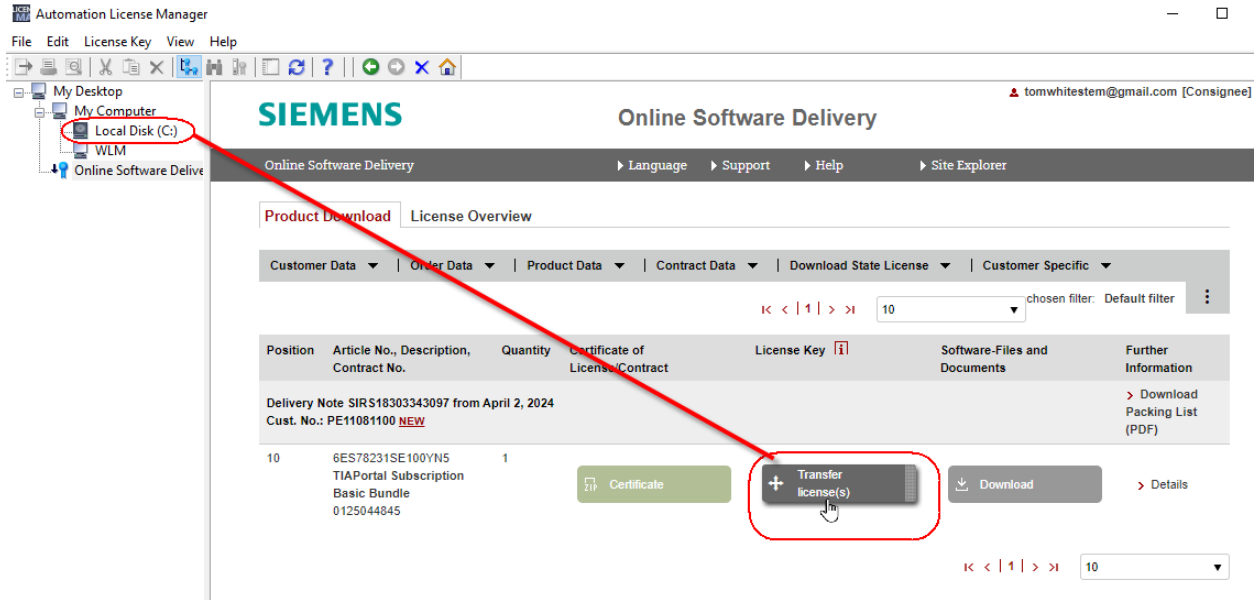
Don't show this message again.

Close

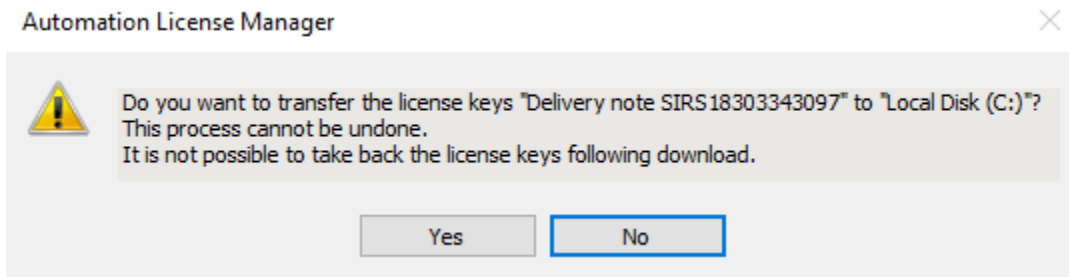
Once you select close you should see the license in the window.

Drag the license from the transfer license(s) button to the drive you wish the license to appear. In this case we are moving it to the C: drive.

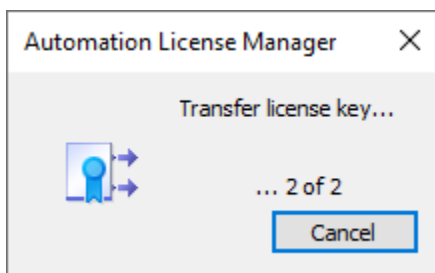




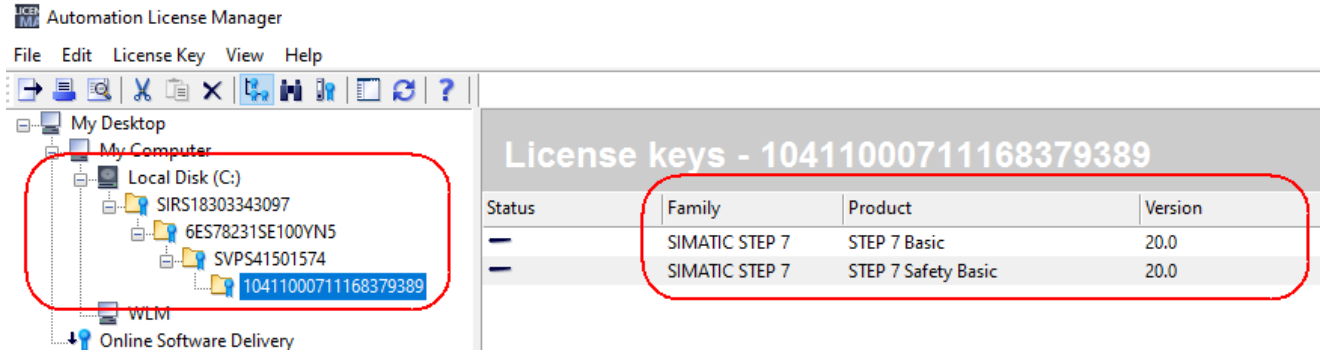
You will be warned that reversing the process is not possible.



You will see the transfer occur.



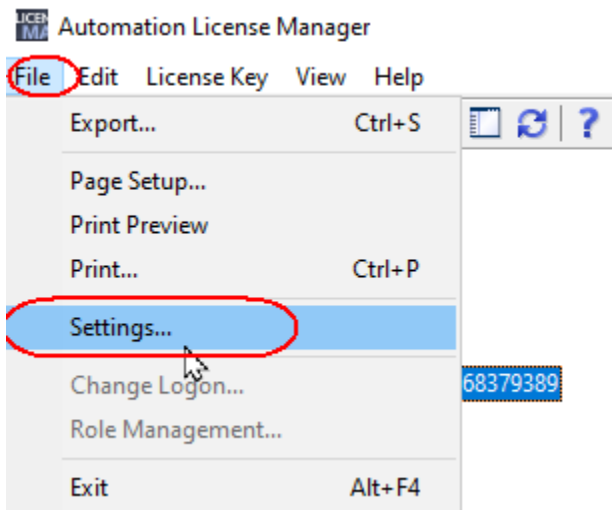
Once finished the licenses should appear on the drive you installed them to. Expand the folders all the way and you should see the licenses on that drive.



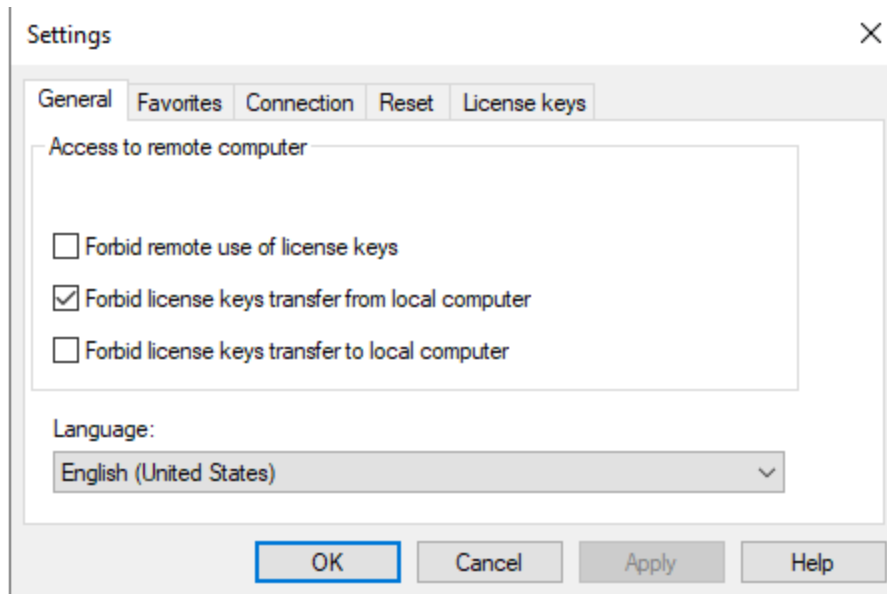
## Setting up a license server

The above process will license just the computer where the license exists. If you wish to access the license from another computer you need to adjust the settings on the license manager on both computers.

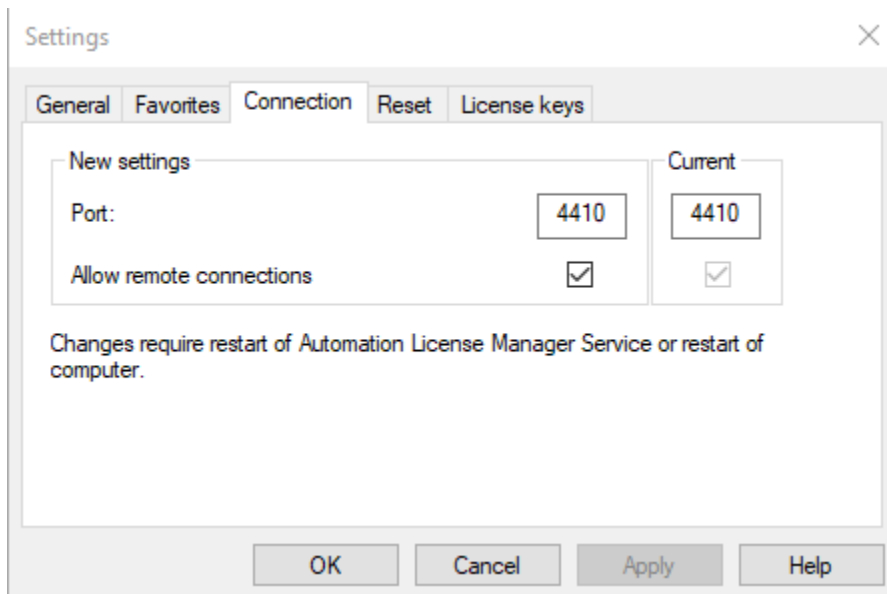
Go to the settings of the automation license manager in the file menu.



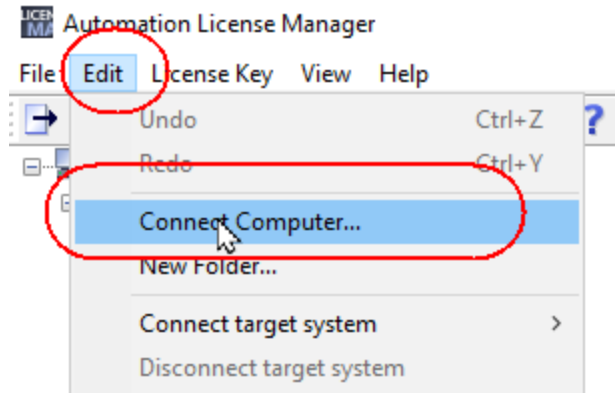
Once in the settings box place a check in the Forbid license keys transfer from local computer. This will allow others to use the license but prevents someone from the outside from taking the license.



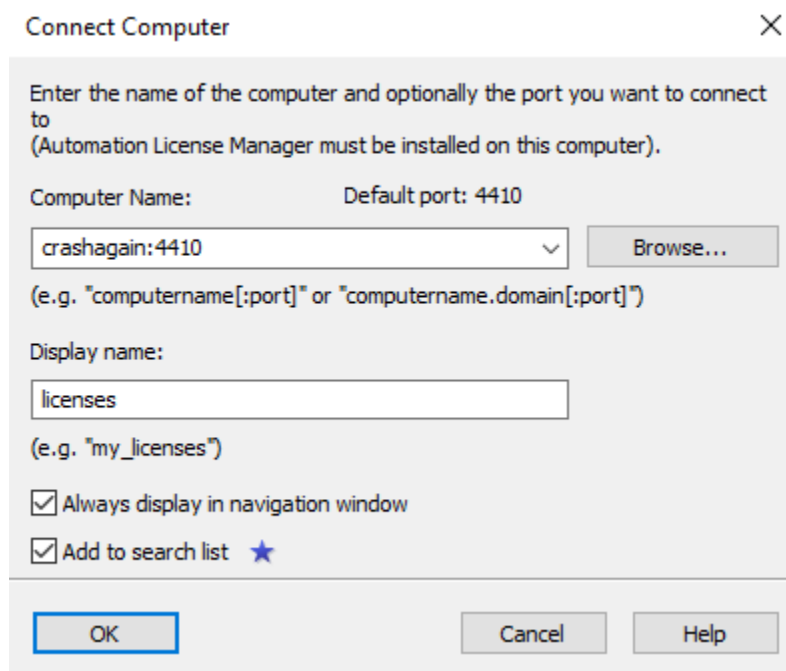
Select the connection tab. On this tab you will be allowing remote connections and the port it will communicate on. In this example 4410 is used for communication. The box for allow remote connections is checked.



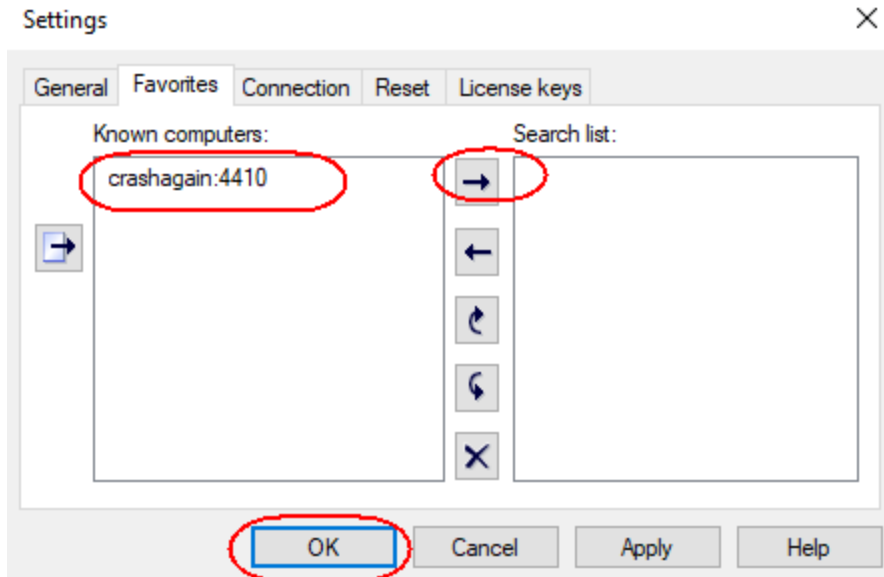
In the license manager of the computer you want to connect, begin at the edit menu and select connect computer.



In the connect computer dialog box, enter the name of the computer you want to connect to. Place a colon then the number 4410. You can enter in a display name or use the display name field.



On the computer that you want to access the license go to the settings from the license manager file menu. Select the favorites tab. You should see the name of the server computer and the port. Highlight the computer name and select the Add arrow to move the computer to the search list. Select OK.



The computer is now set to find a license from the server computer at the appropriate port.

## Getting Help

Support ticket request: <http://www.usa.siemens.com/supportrequest>

Once you log in you will be asked for the type of help you need and some basic information. They will assign a case ticket to it and get back to you with either a request for further information or an answer to the questions you have asked.

Industry Online Support page. <https://support.industry.siemens.com/cs/start?lc=en-US>.

This site provides access to downloads, blogs, questions and other information.

7-zip: <https://7-zip.org>

This site provides a free program for un-zipping files, combining RAR files and unpacking executables and disk image files