

# Ansys STK Installation Guide

Software used in



**Updated: 8/8/2023**

Network Licensing is the only option for Ansys STK software. The licenses sit on the server that serves them to the clients when they are requested. There are four main steps for successful installation and setup. An STK network license will need to be requested from PLTW, the Ansys Licensing Software will need to be installed on the server machine or machine in the classroom, and then client machines will need to have STK 12.5 or greater installed on them.

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**Network licensing for STK requires firewall access for the application through port 1055, and programs, lmgrd.exe, ansyslmd.exe, ansysli\_server.exe, and ansysli\_monitor.exe.** The firewall executables can be found at: C:\Program Files\ANSYS Inc\Shared Files\licensing\winx64. These need to be allowed to connect on the domain only to connect from the server or lab machine to the client machines. Access outside of the domain is not needed.

Ansys Licenses run on a yearly basis. Plan accordingly on gaining licensing in the timeframe that you will be using the software.

Current license timeframe: August 1<sup>st</sup> – July 31<sup>st</sup> of each year

STK licenses are manually generated by PLTW. Please allow time for those to be created and sent.

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## Request STK Network License

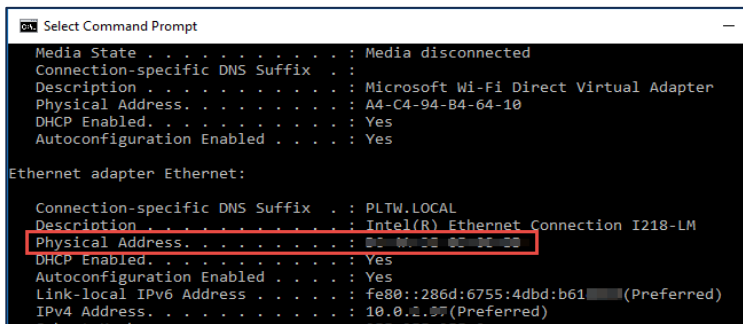
To get a network license you will need to send an email with the subject "STK Network License Request" to [technicalsupport@pltw.org](mailto:technicalsupport@pltw.org). Please include the following information in the body of the email:

- Host ID: This is the MAC Address of the computer to be used as the license server. It should be a string of 12 digits.
- Host name of the computer to be used as the license server.
- Estimated number of computers for licensing purposes.

**To find this information, please use the instructions below:**

### **Host ID (a.k.a. MAC Address or Physical Address)**

1. Click Start in the Windows task bar.
2. In the search box, type *cmd* and press Enter to open the Command Prompt.
3. In the command window that opens, type *ipconfig/all*.
4. Scroll until you find the Ethernet adapter Ethernet or Ethernet adapter Local Area Connection section and note the Physical Address. This is the Host ID.



```

Select Command Prompt
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . : 
Description . . . . . : Microsoft Wi-Fi Direct Virtual Adapter
Physical Address. . . . . : A4-C4-94-B4-64-10
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes

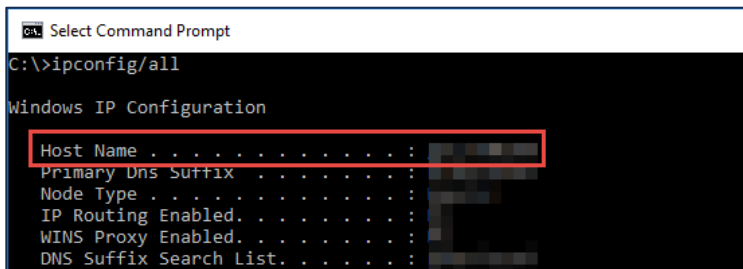
Ethernet adapter Ethernet:

Connection-specific DNS Suffix . : PLTW.LOCAL
Description . . . . . : Intel(R) Ethernet Connection I218-LM
Physical Address. . . . . : 8C-M-DC-0C-DC-00
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::286d:6755:4dbd:b61 (Preferred)
IPv4 Address. . . . . : 10.0.2.15 (Preferred)

```

### **Hostname**

Scroll to the top of the cmd window. The hostname is in the first line. To determine the IP address, the user will have to find the adaptor that is connected to the network. The IPv4 address is what you are looking for.



```

Select Command Prompt
C:\>ipconfig/all

Windows IP Configuration

Host Name . . . . . : 
Primary Dns Suffix . . . . . : 
Node Type . . . . . : 
IP Routing Enabled. . . . . : 
WINS Proxy Enabled. . . . . : 
DNS Suffix Search List. . . . . : 

```

Once you receive your license file, download and save for use later in the process.

## Install Ansys License Manager

1. Go to: <http://support.agi.com/downloads/>
2. Log In if you have an existing AGI account, or select REGISTER NEW ACCOUNT

### LOG IN

Email

Password

[Forgot your password?](#)

LOG IN
REGISTER NEW ACCOUNT

- a. If you are creating a new AGI account, fill out the required information and select Create Account. Then select the link in the confirmation email AGI sends to confirm your account, and go back to <http://support.agi.com/downloads/>

### 3. Select Ansys and then select Ansys License Manager

AGI **Ansys**

On this page you'll find the download packages for certain Ansys products. Click a product name to download its installer. Click a link in the MD5 column to copy that product's checksum to the clipboard. Click "Release Notes" in the Details column to open that product's Help.

— Ansys customer portal

Please contact [support@agi.com](mailto:support@agi.com) if you need the install.

#### Windows Packages

Product Name	Size (MB)	MD5	Details
DVD 1 of 3 (.iso)* (2023r2)	6,116	6551e64ac6542c8...	<a href="#">Release Notes</a>
DVD 2 of 3 (.iso)* (2023r2)	6,583	d455757ca2630c6...	<a href="#">Release Notes</a>
DVD 3 of 3 (.iso)* (2023r2)	6,103	b239e710e8901de...	<a href="#">Release Notes</a>
Ansys Electronics - Full Package (.zip) (2023r2)	10,201	6bb52e807e7439...	<a href="#">Release Notes</a>
Behavior Execution Engine (BEE) - For ModelCenter Enterprise (.zip) (2023r2)	1,210		<a href="#">Release Notes</a>
<b>Ansys License Manager (.zip) (2023r2)</b>	399	a2df240ea50a001...	<a href="#">Release Notes</a>
Ansys Enterprise Licensing Packages (.zip) (2023r2)	82	1ffd3bd3b701c32...	<a href="#">Release Notes</a>

### 4. Extract the downloaded Ansys License Server folder and **Run as administrator**.

Downloads > ANSYSLICMAN\_2023R2\_WINX64

Name	Date modified	Type	Size
clclient	7/31/2023 2:33 PM	File folder	
hlp	7/31/2023 2:33 PM	File folder	
instcore	7/31/2023 2:33 PM	File folder	
license	7/31/2023 2:33 PM	File folder	
licserv	7/31/2023 2:33 PM	File folder	
lmcenter	7/31/2023 2:33 PM	File folder	
manifest	7/31/2023 2:33 PM	File folder	
util	7/31/2023 2:33 PM	File folder	
232-1.dvd	7/31/2023 2:34 PM	DVD File	1 KB
builddate.txt	7/31/2023 2:34 PM	Text Document	6 KB
LICENSE.TXT	7/31/2023 2:34 PM	Text Document	67 KB
package.id	7/31/2023 2:34 PM	ID File	1 KB
<b>setup.exe</b>	7/31/2023 2:34 PM	Application	15,303 KB

Open

**Run as administrator**

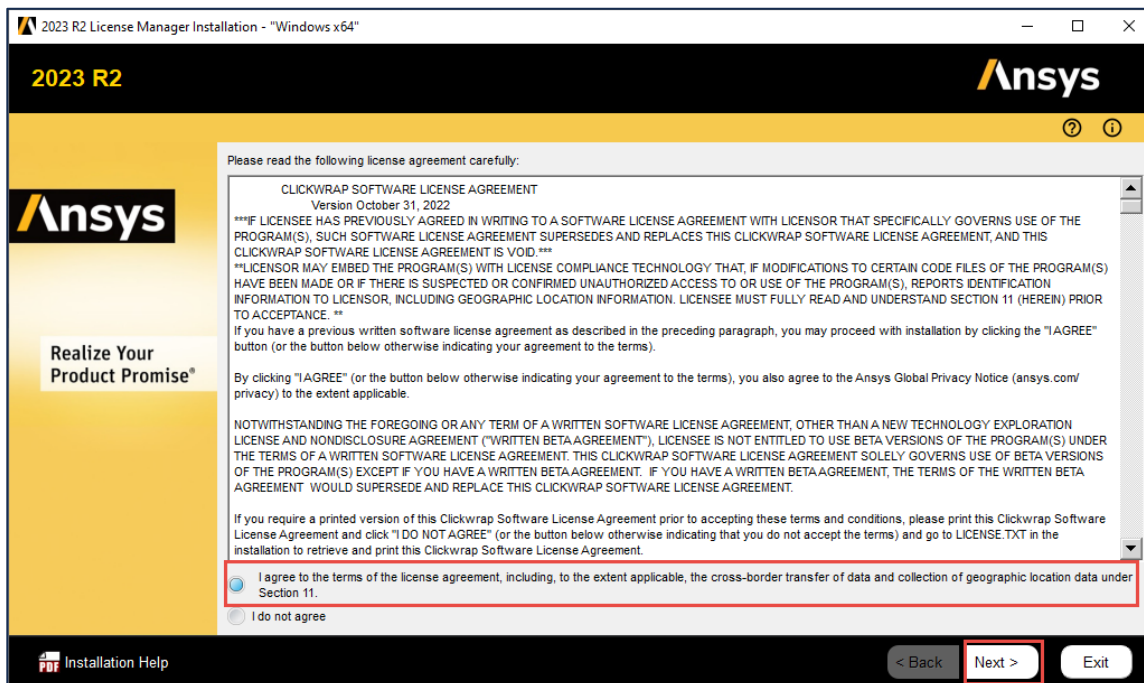




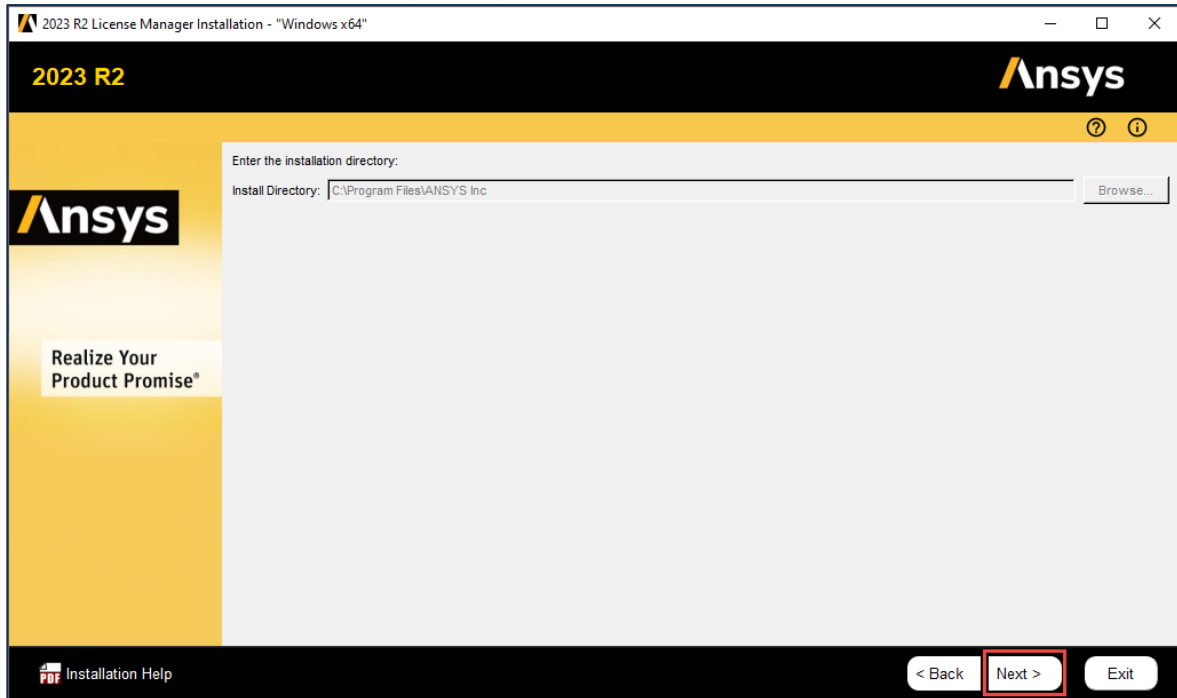
## 5. Select **Install Ansys License Manager**.



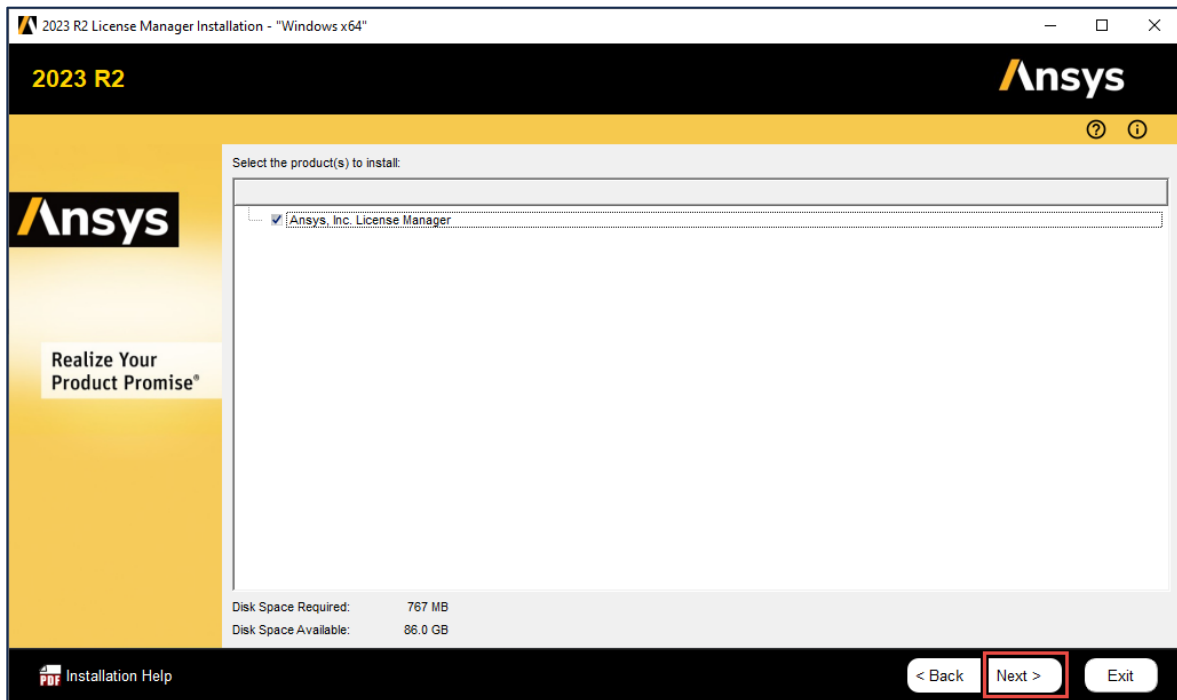
## 6. Agree to the terms and then Next.



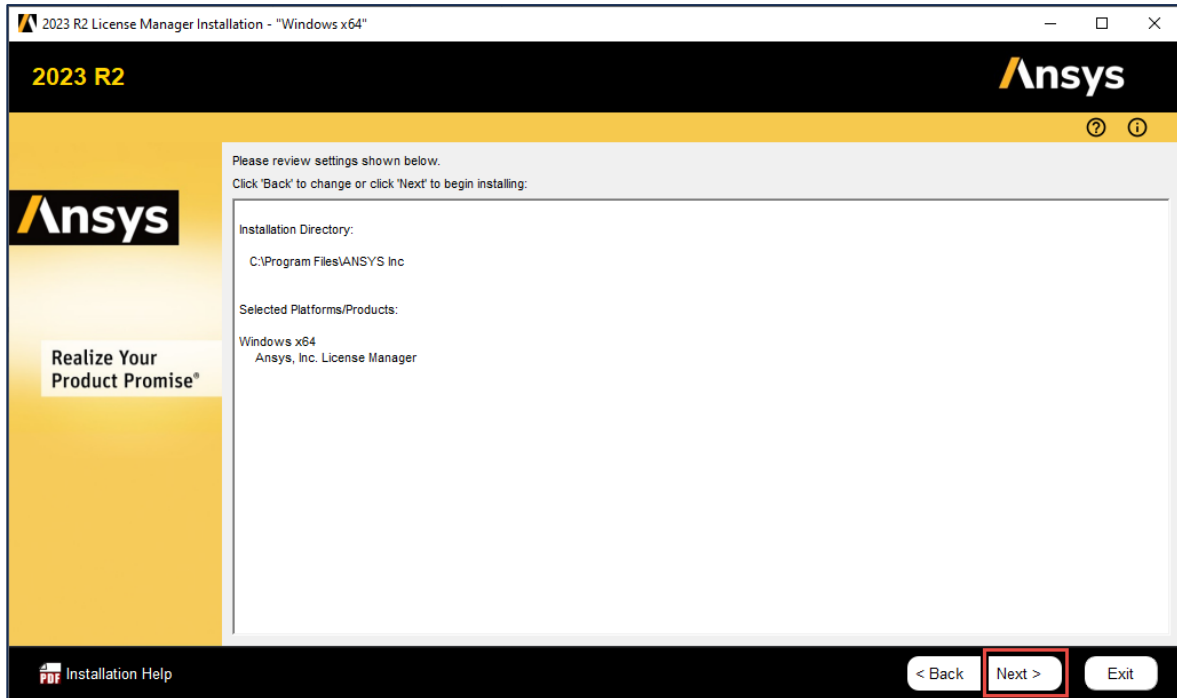
## 7. Select Next



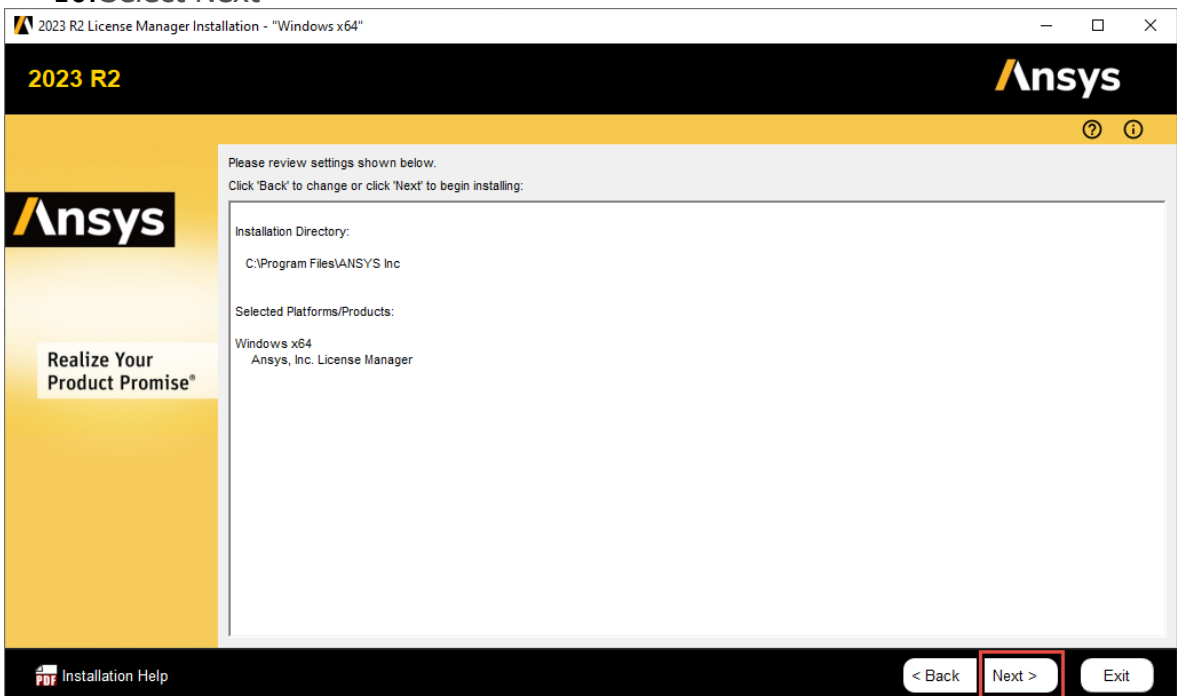
## 8. Select Next



## 9. Select Next

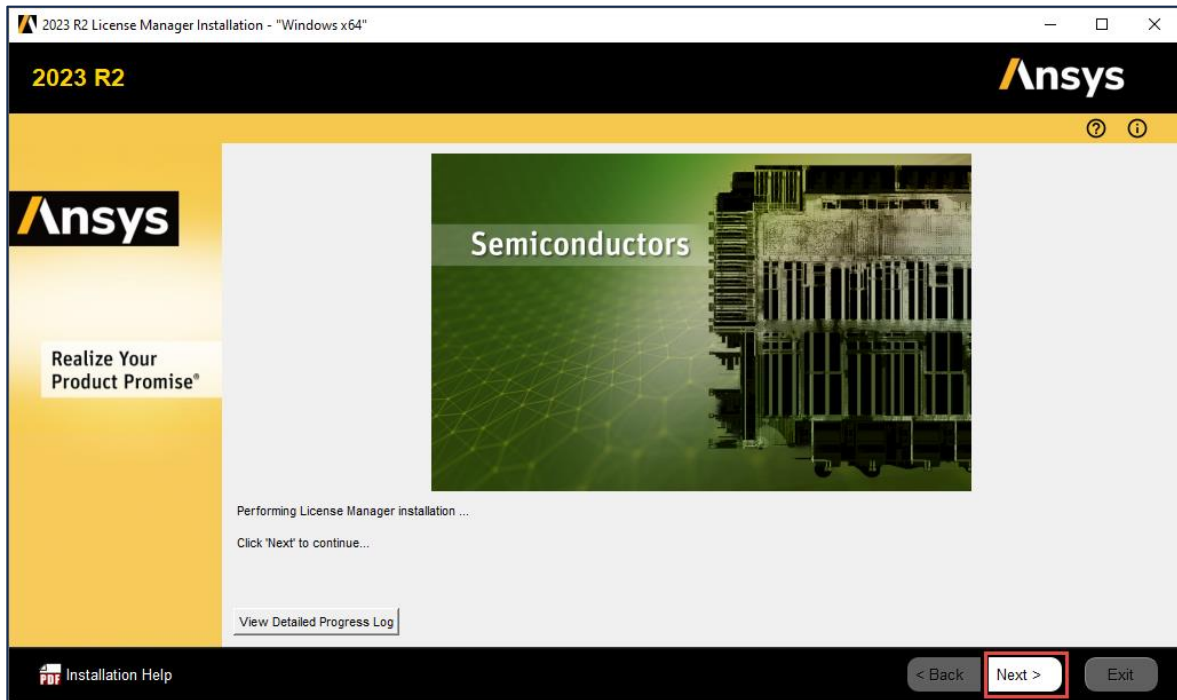


## 10. Select Next

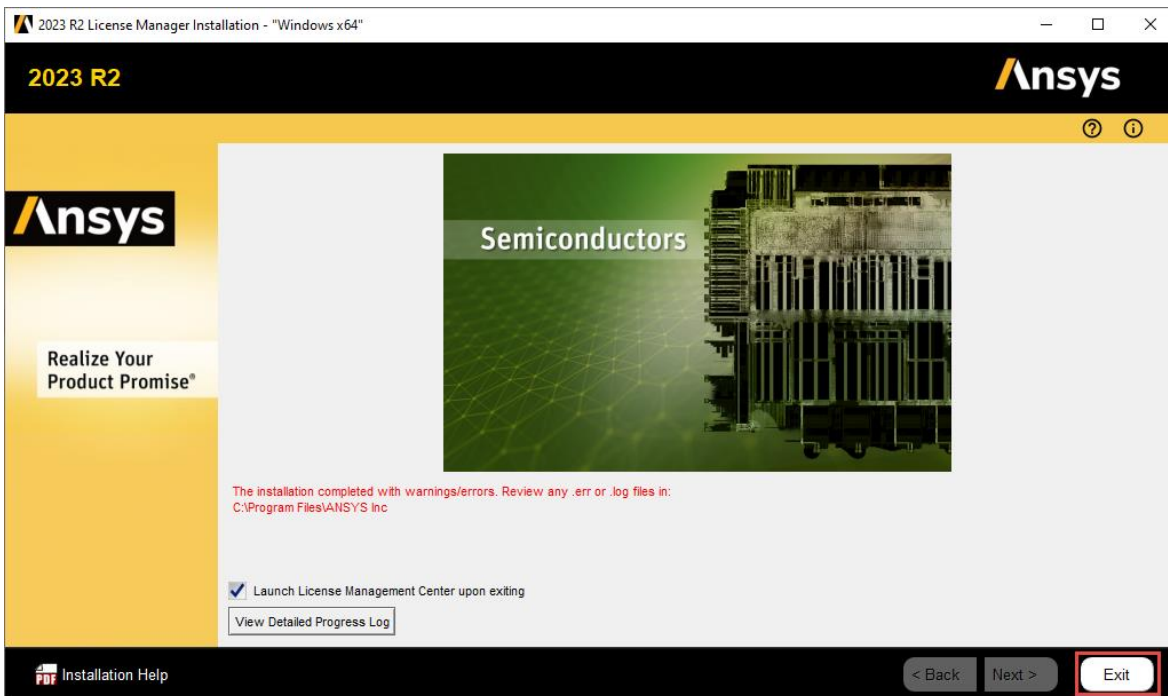




## 11. Select Next



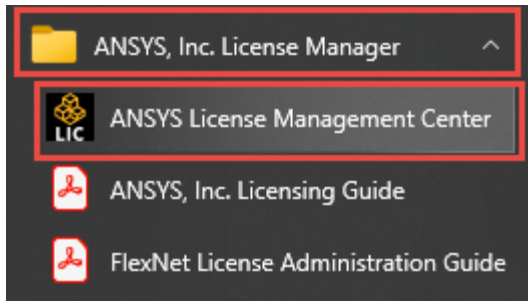
12. Select Exit. You may see an error that indicates that a license file is missing. We will add the license files later.





# Configure Ansys License Manager

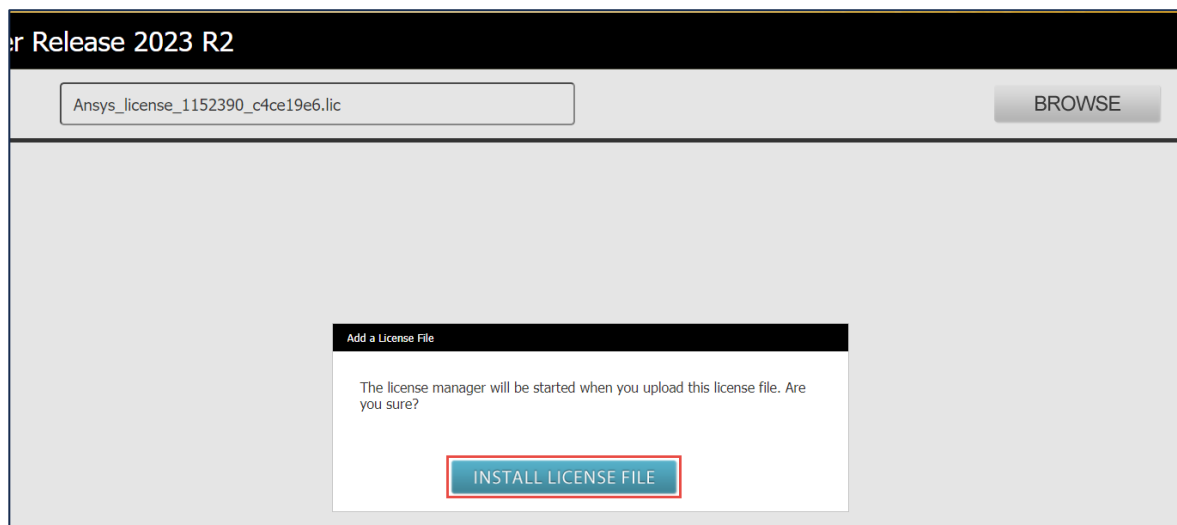
1. Open Ansys License Manager from the start menu.



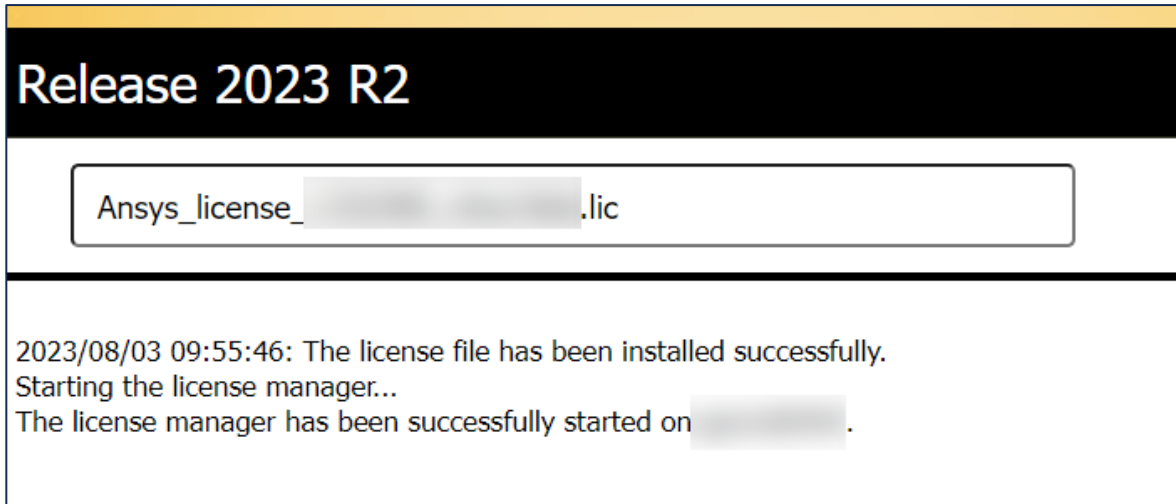
2. Ansys License Manager will open in your default browser. Select Add a License File from the left side, and then select Browse.



3. Select the license file that you received from PLTW, and then select Install License File

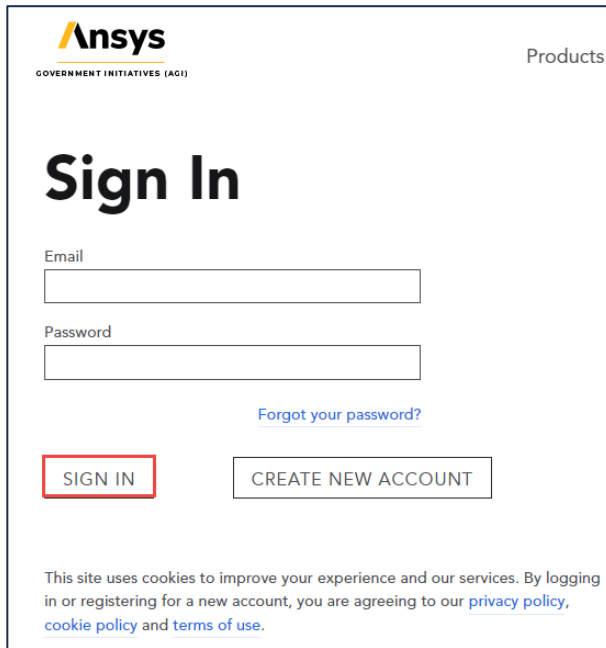


4. The license has been added to the License Manager and it is running.



## Install STK 12.7 on client machines

1. Go to: <http://support.agi.com/downloads/>
2. Log In if you have an existing AGI account, or select REGISTER NEW ACCOUNT




The screenshot shows the Ansys Government Initiatives (AGI) Sign In page. At the top left is the Ansys logo with 'GOVERNMENT INITIATIVES (AGI)' below it. At the top right is the word 'Products'. The main heading is 'Sign In'. Below it are two input fields: 'Email' and 'Password'. To the right of the Password field is a link that says 'Forgot your password?'. Below the input fields are two buttons: 'SIGN IN' (highlighted with a red border) and 'CREATE NEW ACCOUNT'. At the bottom, there is a small text block: 'This site uses cookies to improve your experience and our services. By logging in or registering for a new account, you are agreeing to our [privacy policy](#), [cookie policy](#) and [terms of use](#).'

- a. If you are creating a new AGI account, fill out the required information and select Create Account. Then select the link in the confirmation email AGI sends to confirm your account, and go back to <http://support.agi.com/downloads/>

3. Scroll down and select STK v12.7.0







# Software Downloads


AGI


Ansys


On this page you'll find the download packages for the most recent versions of all our products. Click a product name to go to the product's page. Click a link in the SHA-256 column to copy that product's checksum to the clipboard. Click "Release Notes" to open that product's Help.

- Previous releases ([12.6](#) | [12.5](#) | [12.4](#))
- Archived releases ([12.2 and earlier](#))
- [Ansys customer portal](#)

## Desktop Products

 Current version of STK is only supported on Windows 10 and Windows Server 2016 & 2019.

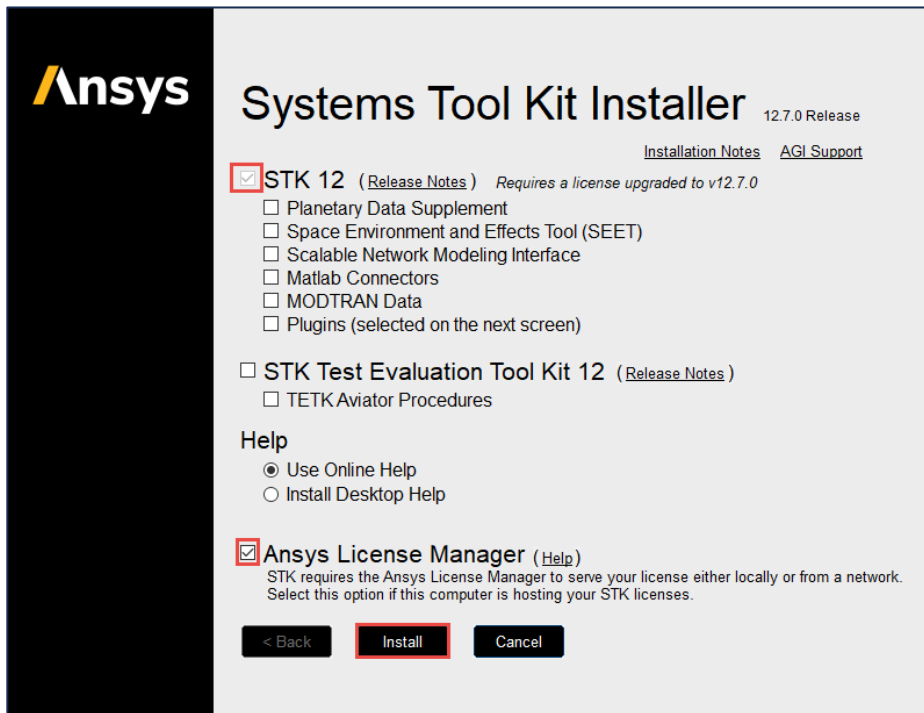
 All files listed within your desired product's table are required for a complete installation.

STK Pro 	Size (MB)	SHA-256
<a href="#">Systems Tool Kit (STK) Pro (v12.7.0*)</a>	6,804	<a href="#">3DCB1C4D945CBB7..</a>

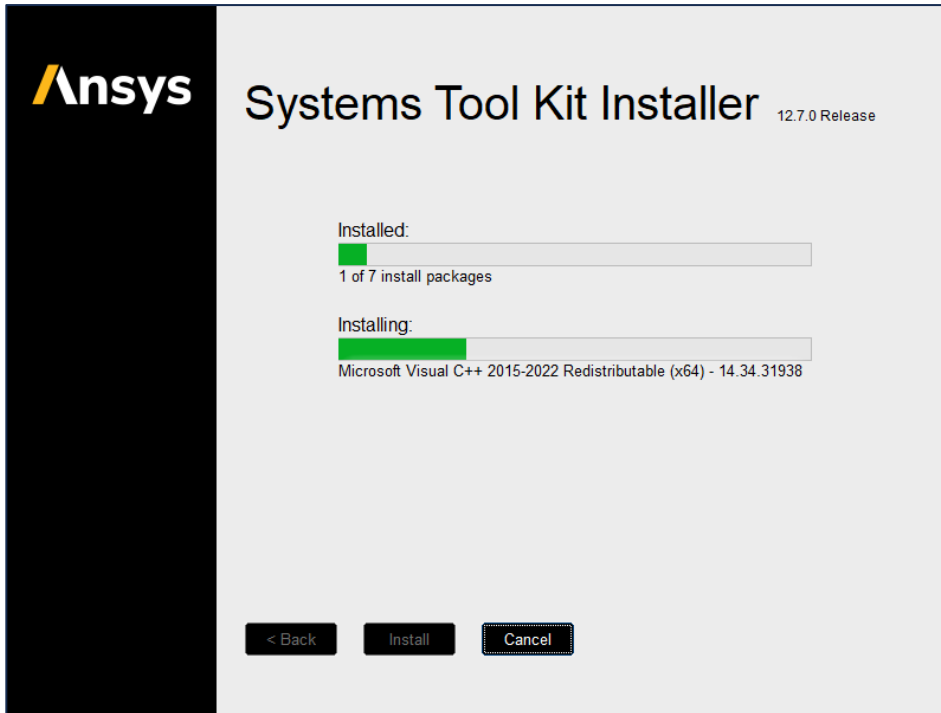
4. When prompted, save the STK zip folder to your computer.
5. When the download is complete, extract the folder to a location of your choice.
6. In the extracted folder, select the install application.

Name	Date modified	Type	Size
AGI_Support_Tools	7/20/2023 2:32 PM	File folder	
AnsysLicenseManager	7/20/2023 2:32 PM	File folder	
Discovery_STK_ModelAddIn	7/20/2023 2:32 PM	File folder	
Matlab_Connectors	7/20/2023 2:32 PM	File folder	
OperatorsToolbox	7/20/2023 2:32 PM	File folder	
Prerequisites	7/20/2023 2:32 PM	File folder	
Scalable_Network_Modeling_Interface	7/20/2023 2:32 PM	File folder	
SpaceClaim_STK_ModelAddIn	7/20/2023 2:32 PM	File folder	
STK	7/20/2023 2:33 PM	File folder	
STK_Help	7/20/2023 2:33 PM	File folder	
STK_MODTRAN_Data	7/20/2023 2:33 PM	File folder	
STK_Parallel_Computing	7/20/2023 2:33 PM	File folder	
STK_Planetary_Data_Supplement	7/20/2023 2:33 PM	File folder	
STKSEET	7/20/2023 2:33 PM	File folder	
STKUIPlugins	7/20/2023 2:33 PM	File folder	
SupportFiles	7/20/2023 2:33 PM	File folder	
TEToolKit	7/20/2023 2:33 PM	File folder	
install.exe	6/22/2023 7:25 PM	Application	1,845 KB
PrereqItems.txt	6/22/2023 8:51 PM	Text Document	1 KB

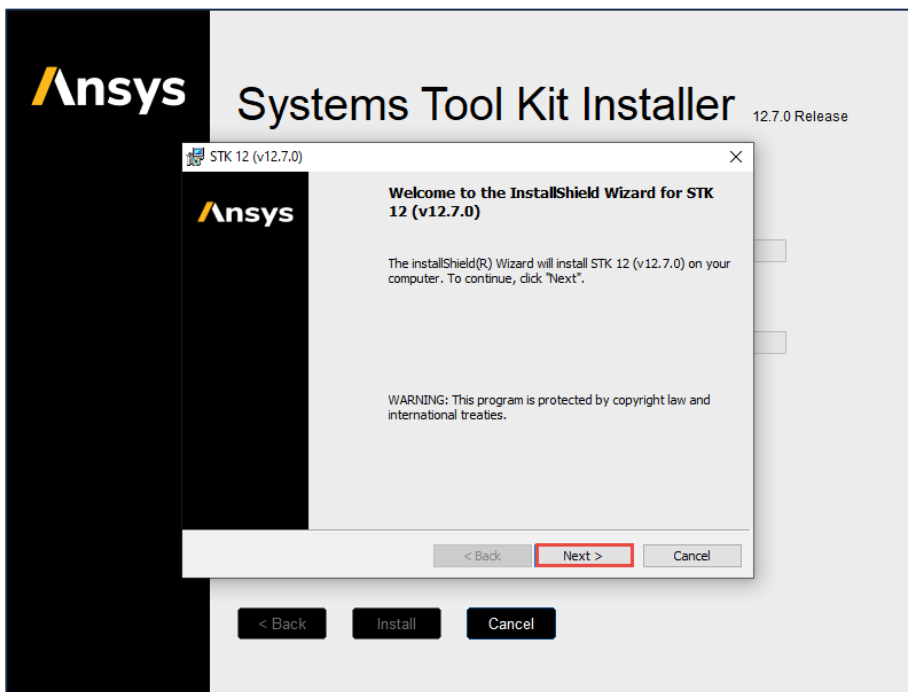
7. If prompted to allow the software to make changes to your computer, select **Yes**.
8. Select **STK 12**. If you didn't install the license server earlier, or do not have a license server, select Ansys License Manager, and then select **Install**.



9. STK will begin to install. Wait to be prompted.

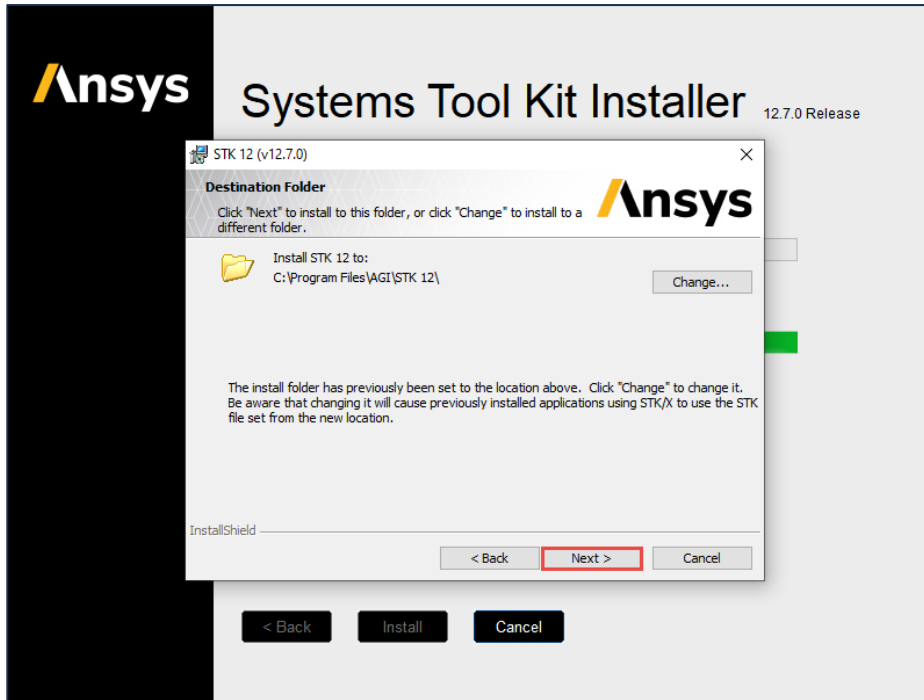


10. Select Next.

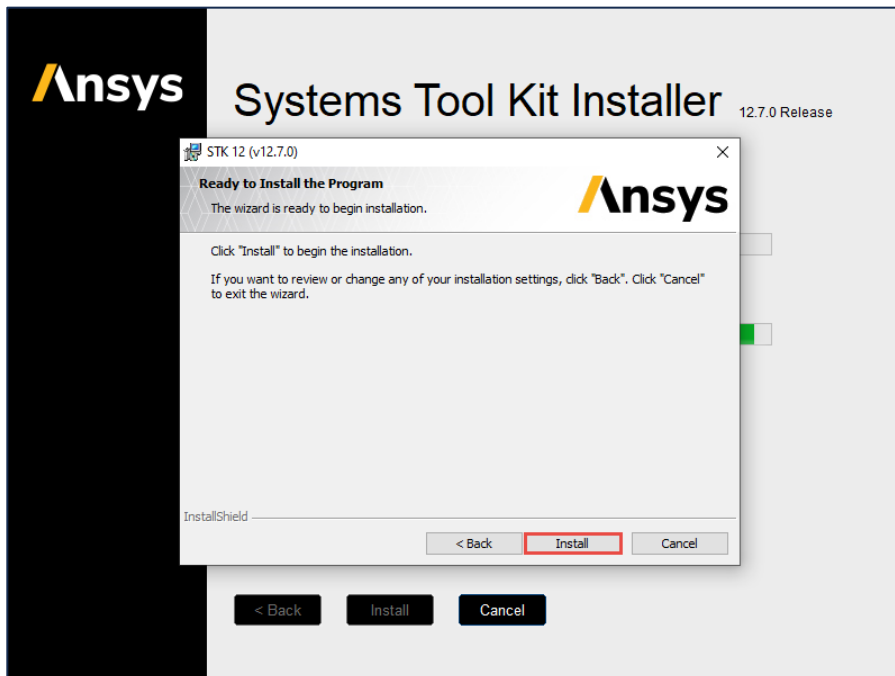




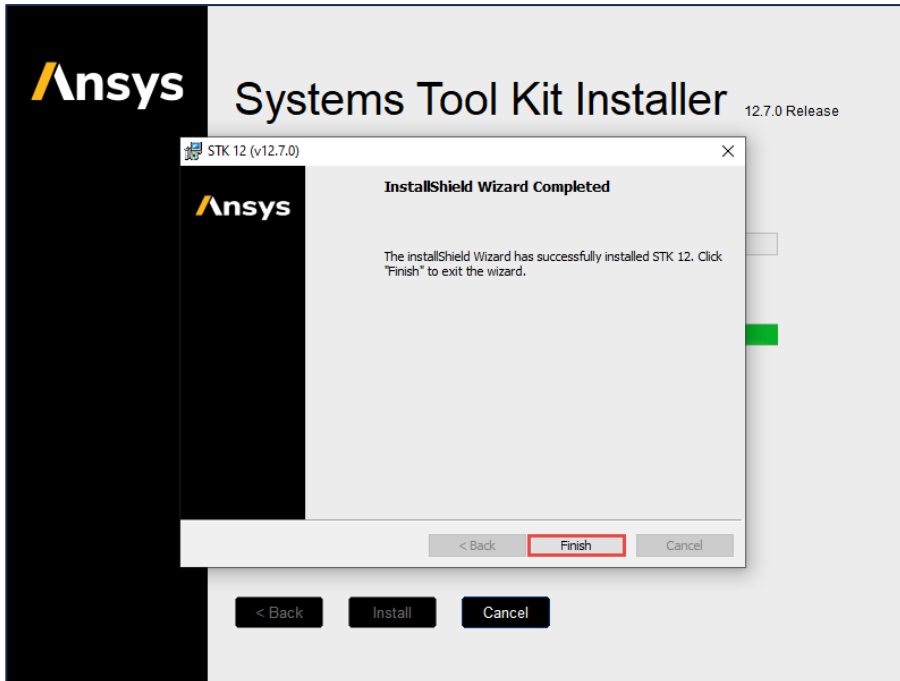
## 11. Select Next



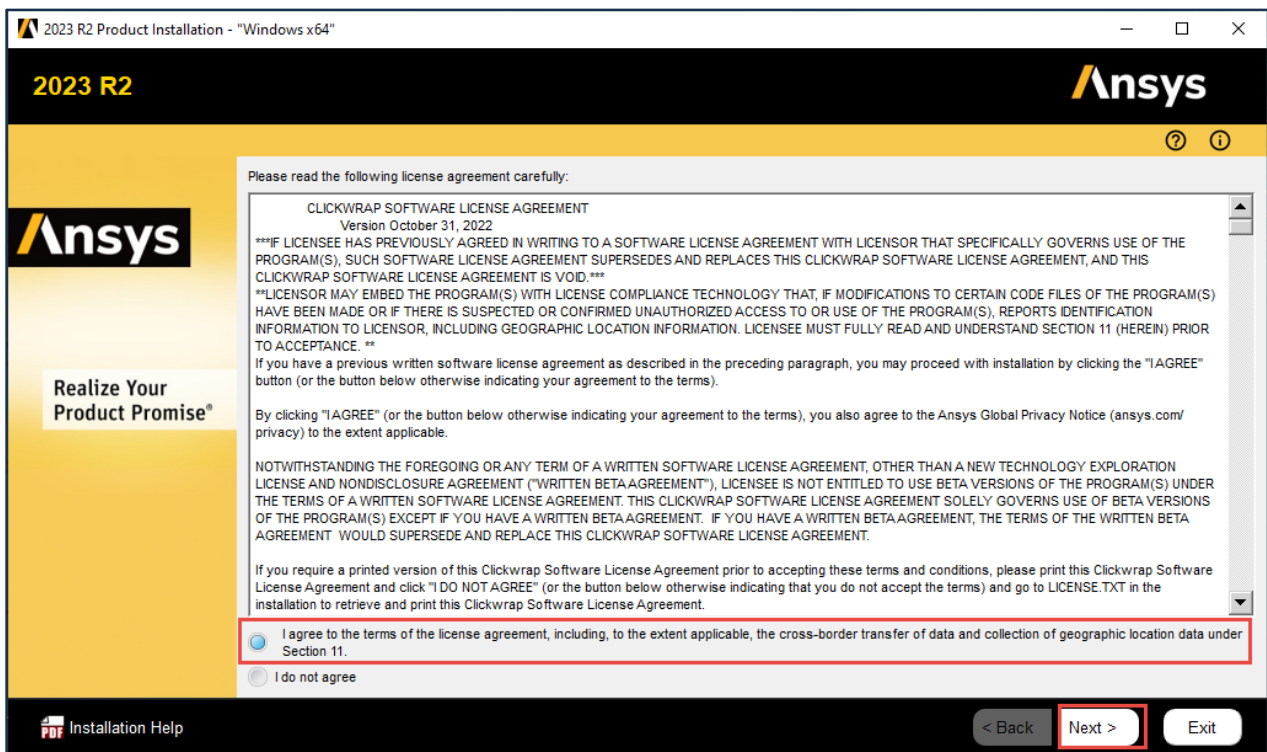
## 12. Select Install



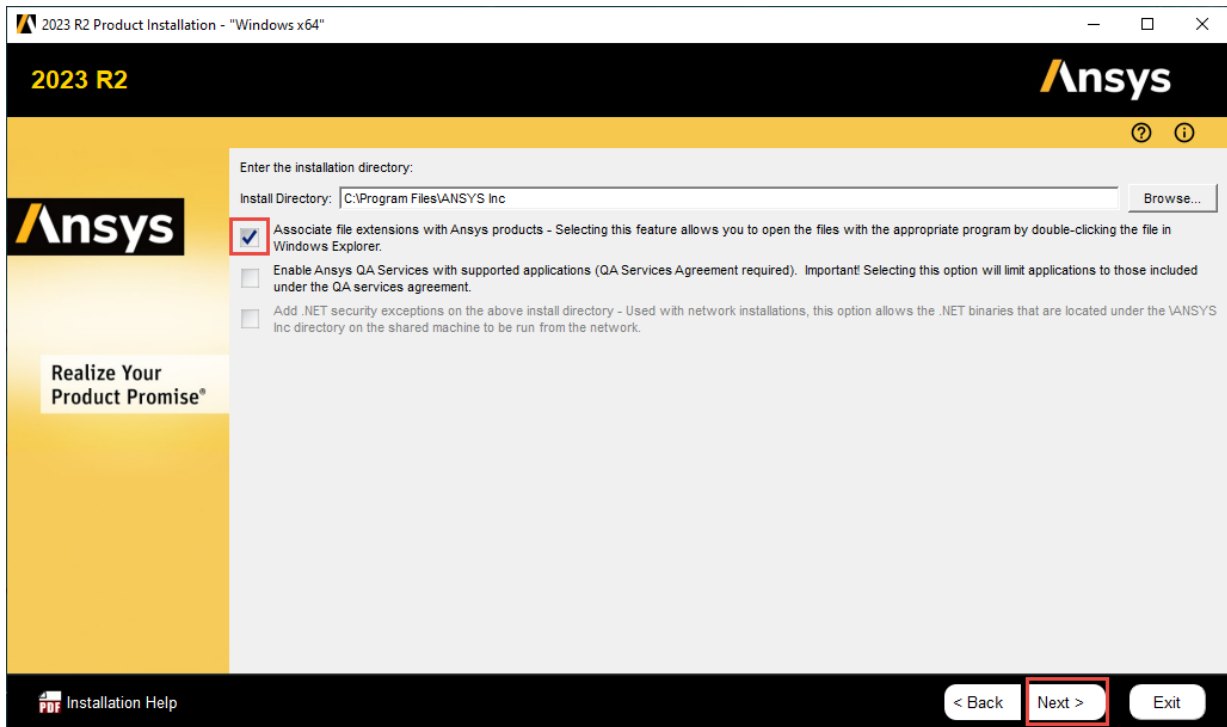
13. When the installation is complete, select Finish.



14. Agree to the terms and select Next.



15. Check the box and select Next.



2023 R2

Enter the installation directory:

Install Directory: C:\Program Files\ANSYS Inc

☒ Associate file extensions with Ansys products - Selecting this feature allows you to open the files with the appropriate program by double-clicking the file in Windows Explorer.

☐ Enable Ansys QA Services with supported applications (QA Services Agreement required). Important! Selecting this option will limit applications to those included under the QA services agreement.

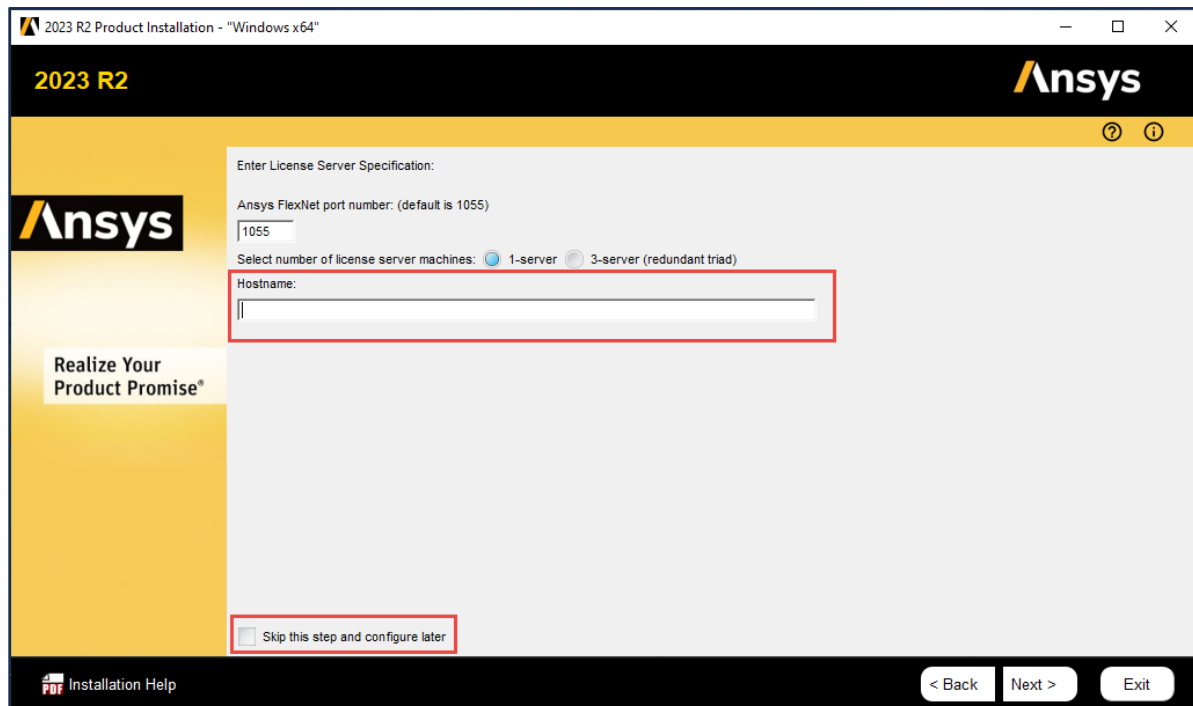
☐ Add .NET security exceptions on the above install directory - Used with network installations, this option allows the .NET binaries that are located under the \ANSYS Inc directory on the shared machine to be run from the network.

Realize Your Product Promise®

Installation Help

< Back Next > Exit

16. If your license server is configured, **Enter the Hostname**, and select Next. If your license server is NOT configured, select **Skip the step and configure later**; then select Next.



2023 R2

Enter License Server Specification:

Ansys FlexNet port number: (default is 1055)

1055

Select number of license server machines: ☒ 1-server ☐ 3-server (redundant triad)

Hostname:

Skip this step and configure later

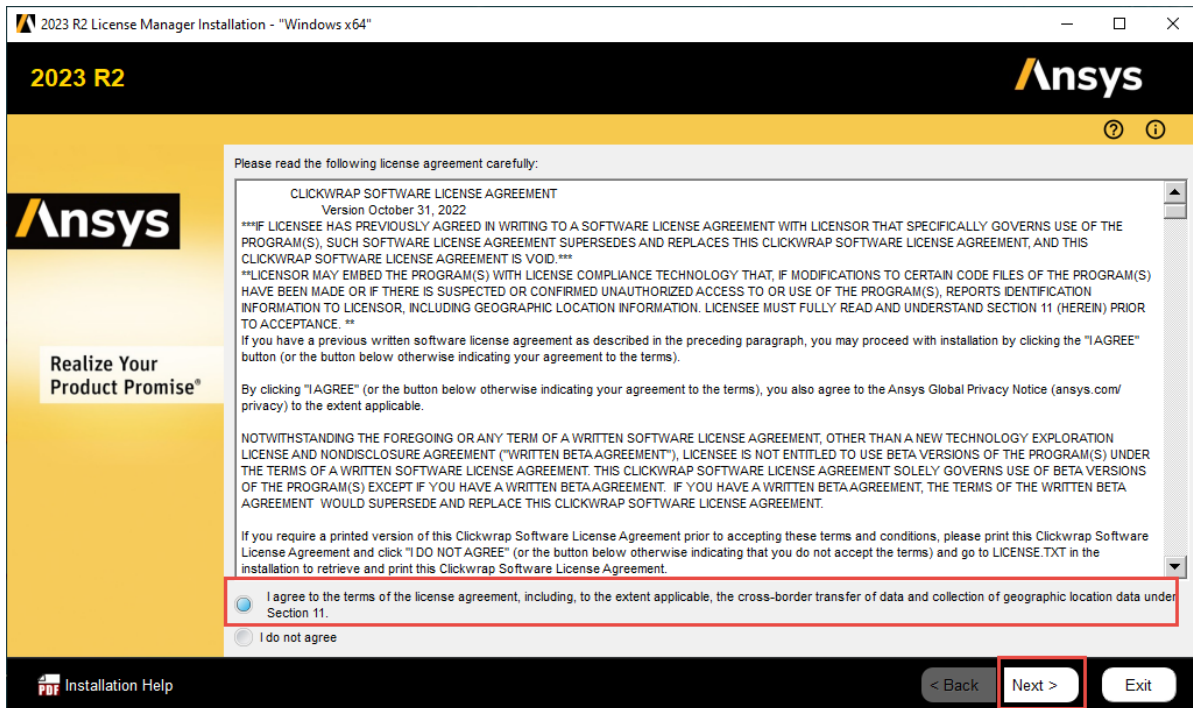
Realize Your Product Promise®

Installation Help

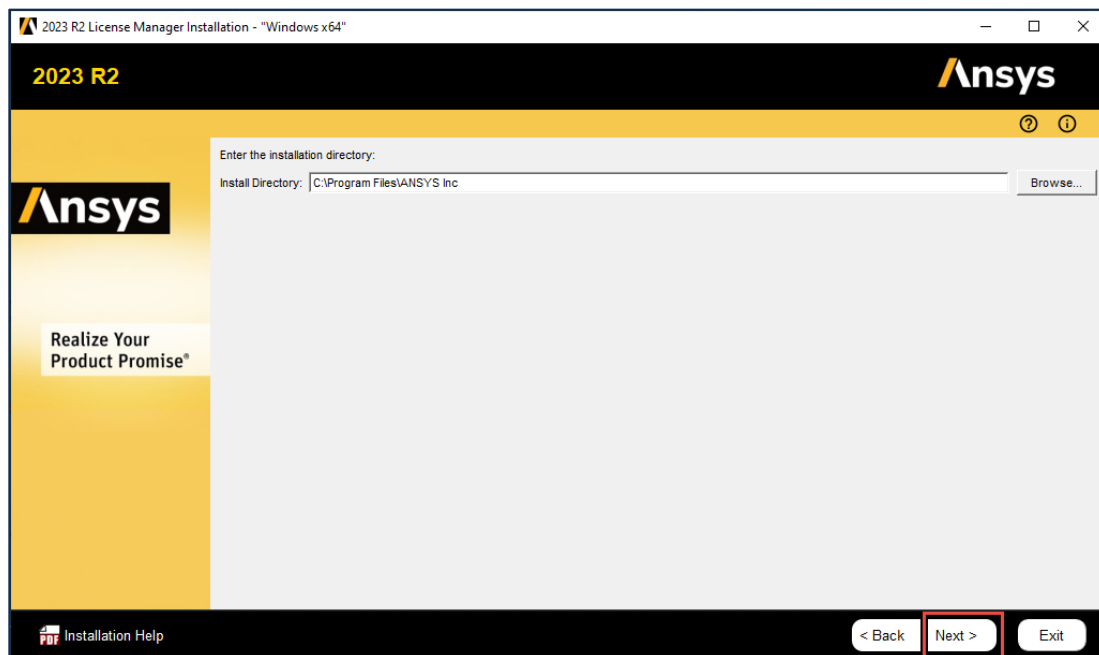
< Back Next > Exit



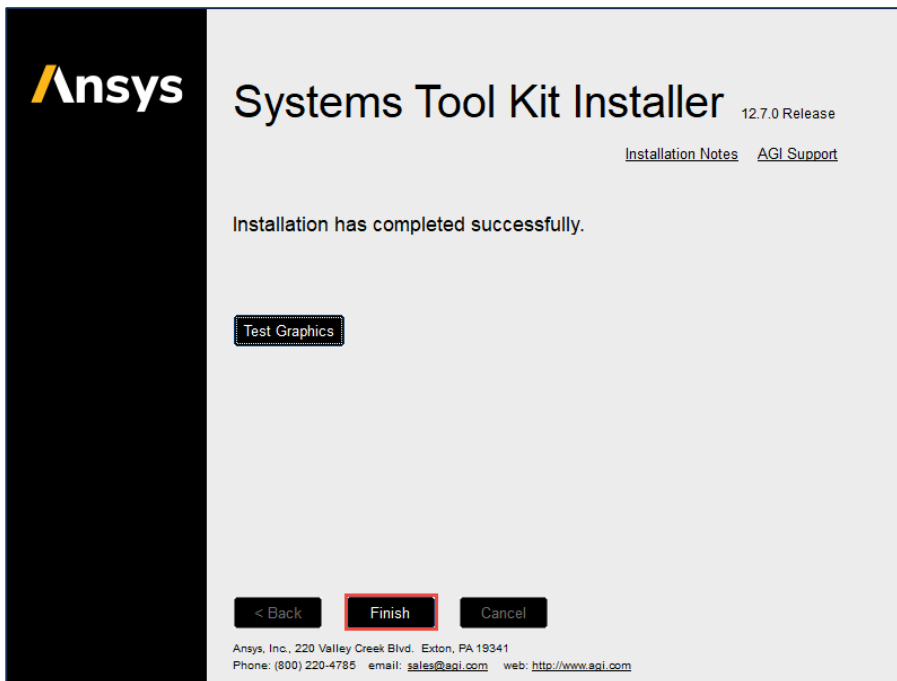
## 17. Agree to the terms and select Next.



## 18. Select Next.



19. Select Exit when asking if you want to install other features.
20. Select Finish.

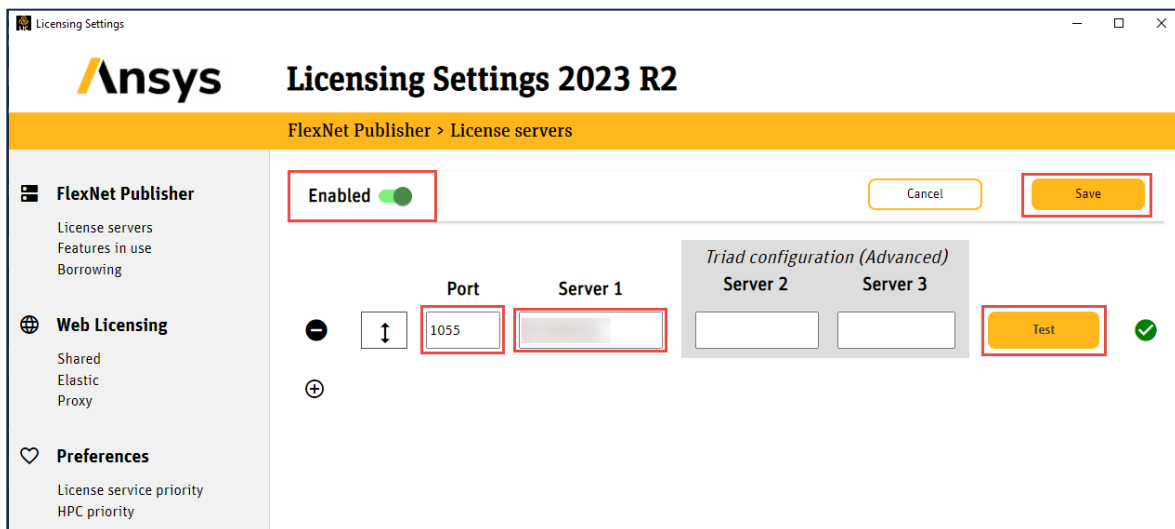


## Connect to the server on the client machine

1. Complete these steps if the client was not connected to the server during the installation process.
2. Run the Ansys Licensing Client Settings **As an Administrator**.



3. After opening, take the following steps to point to the server.
  - a. Select the Enable button.
  - b. Fill in **port 1055** for the port number.
  - c. Type in the Host Name or Server Name of the machine that has your license on it.
  - d. Select Save
  - e. Select Test. You will see the Green check mark showing that it is connected to the server.



4. You can now launch AGI STK 12.5 or greater.





5. After launching, select STK Premium Space and select OK.

