



## Embed SE 2017.2 Installation Guide

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# Contents

Installing and licensing solidThinking Embed® SE 2017.2 .....	2
STEP 1: Installing prerequisite software .....	2
Installing Microsoft Visual Studio .....	2
Installing real-time I/O drivers .....	2
STEP 2: Installing solidThinking Embed SE.....	3
STEP 3: Setting up a solidThinking Embed SE license .....	8
Setting up a node-locked license .....	8
Registering your license .....	8
Activating your license .....	9
Setting up a network license.....	9
Registering your license .....	10
Installing the licenser server .....	10
Activating the license server .....	11
Connecting a PC to the network license .....	13
If you need licensing help .....	13
Invoking solidThinking Embed SE.....	14
Invoking solidThinking Embed SE from the Start menu .....	14
Invoking solidThinking Embed SE from the desktop.....	14
Uninstalling solidThinking Embed SE .....	14

# Installing and licensing solidThinking Embed® SE 2017.2

This document describes the installation and license activation procedure for solidThinking Embed SE (Simulation Edition) 2017.2.

There are three main steps to install and activate your solidThinking Embed SE license:

1. Install prerequisite software.
2. Install solidThinking Embed SE.
3. Set up your solidThinking Embed SE license.

## STEP 1: Installing prerequisite software

Before you install solidThinking Embed SE, you may need to install several additional products on your computer. The table below describes when you will use these products.

Install this	If you are
Microsoft Visual Studio®	Creating custom DLLs.
National Instruments™ and Measurement Computing™ real-time I/O drivers	Interfacing with real-time I/O boards from National Instruments and Measurement Computing.

## Installing Microsoft Visual Studio

If you want to create custom DLLs, you will need to download and install Microsoft Visual Studio v2010+ on your computer.

**NOTE:** When you install solidThinking Embed SE, it detects the version of Microsoft Visual Studio installed on your computer, and installs a complementary Visual C wizard. The Visual C wizard is used for creating custom DLLs. If Microsoft Visual Studio is not installed on your computer at the time of the solidThinking Embed SE installation, the complementary Visual C wizard is not installed. You must install Microsoft Visual Studio and then re-install solidThinking Embed SE.

1. Go to the **Microsoft Visual Studio download webpage** (<https://www.visualstudio.com/vs/older-downloads/>).
2. Follow the directions on the webpage to download the version you want to use. solidThinking Embed SE supports Microsoft Visual Studio v2010+. The Community version is free.

## Installing real-time I/O drivers

If you are using real-time I/O boards from National Instruments or Measurement Computing, you will need to download and install the corresponding drivers on your computer.

For this board	Go to
National Instruments	<a href="http://www.ni.com/nisearch/app/main/p/bot/no/ap/tech/lang/en/pg/1/sn/catnav:du,n8:3478.41.181.5495,ssnav:ndr/">http://www.ni.com/nisearch/app/main/p/bot/no/ap/tech/lang/en/pg/1/sn/catnav:du,n8:3478.41.181.5495,ssnav:ndr/</a>
Measurement Computing	<a href="https://www.mccdaq.com/Software-Downloads">https://www.mccdaq.com/Software-Downloads</a>

## STEP 2: Installing solidThinking Embed SE

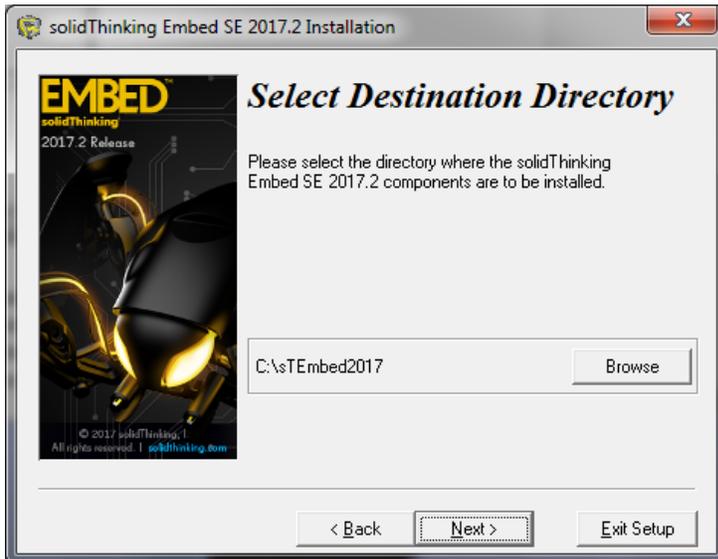
After you have installed the prerequisite software under [STEP 1](#), follow the steps below to install solidThinking Embed SE.

1. Double-click on the installer executable:  
solidThinking\_Embed\_SimulationEdition\_20172.exe
2. The *Welcome* window is displayed:



3. Press **Next**.

The *Select Destination Directory* screen is displayed:

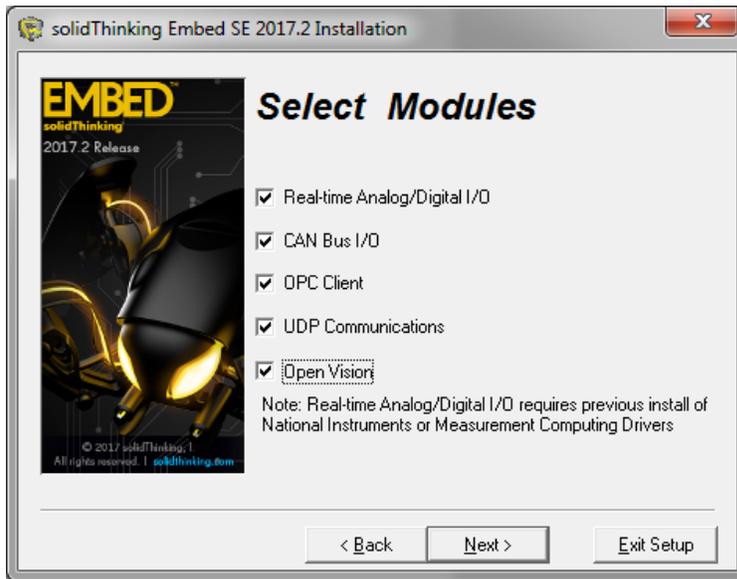


4. Choose the default installation location or click **Browse** to select an installation directory of your choice.

**NOTE:** Since solidThinking Embed SE may write files in the installation directory during execution, it is strongly recommended not to install the software in a folder such as C:\Program Files, where write permissions may be denied for standard users.

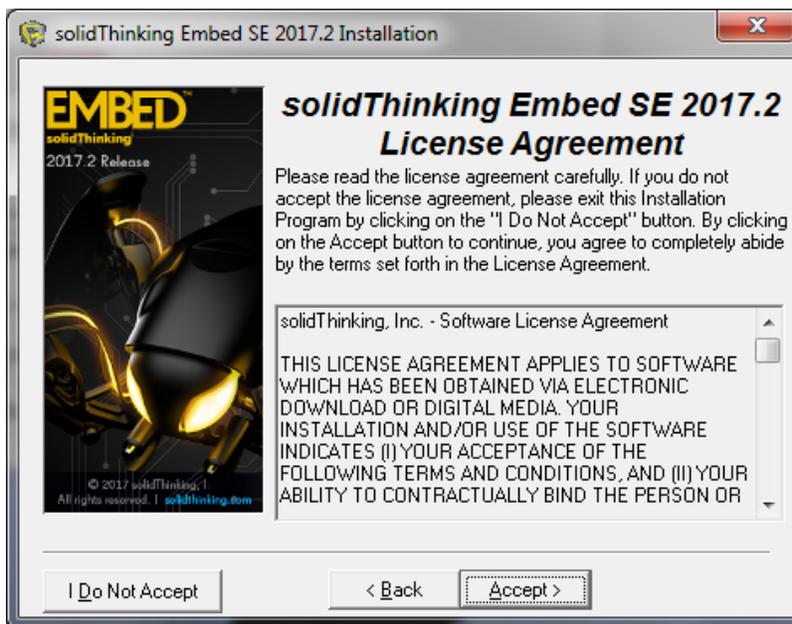
5. Press **Next**.

The *Select Modules* window is displayed:



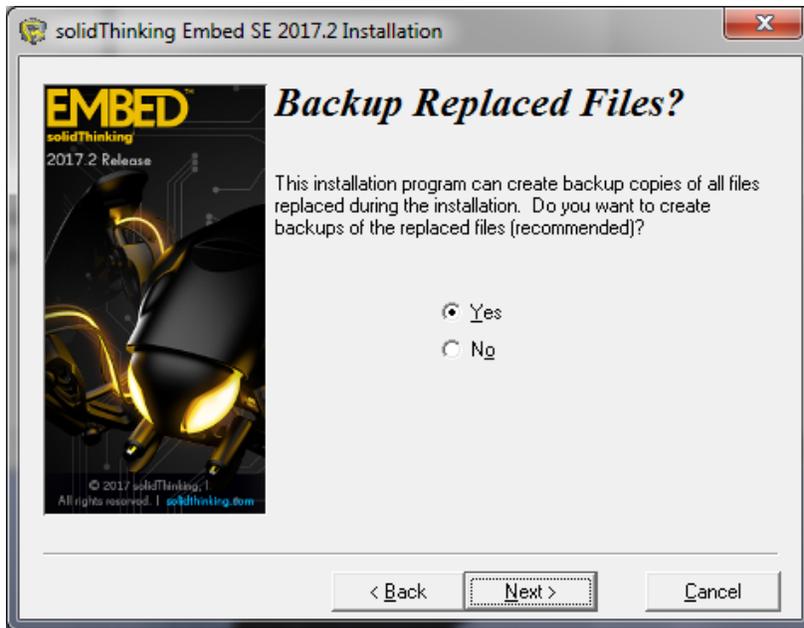
6. Select the modules you want to install; then press **Next**.

The *License Agreement* window appears:



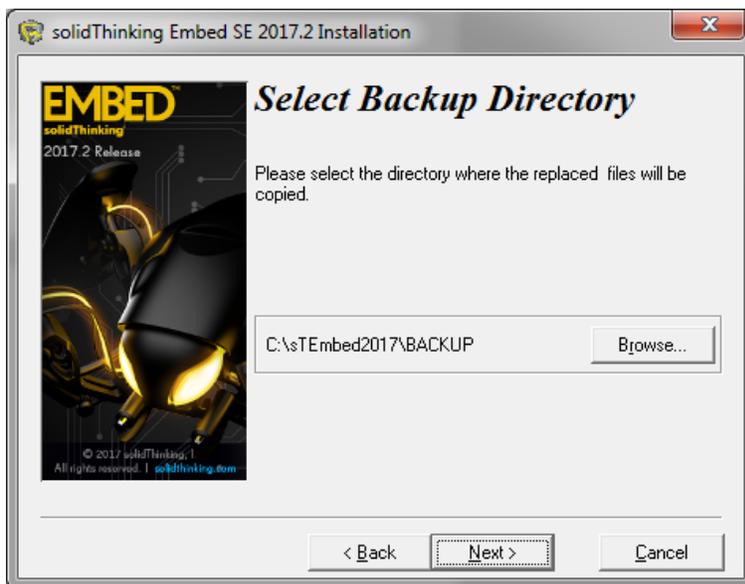
7. Review the terms of the **License Agreement**; then press **Accept** to continue the installation.

The *Backup Replaced Files* window is displayed:



8. Make your selection and press **Next**.

The *Select Backup Directory* window is displayed:



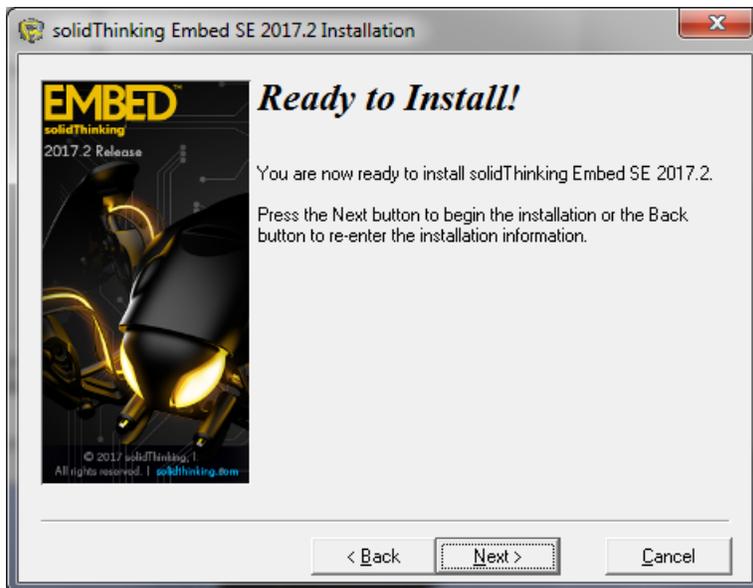
9. Click **Browse** to select a backup directory if you do not want to use the default directory. Then press **Next**.

The *Select Start Menu Group* window is displayed:



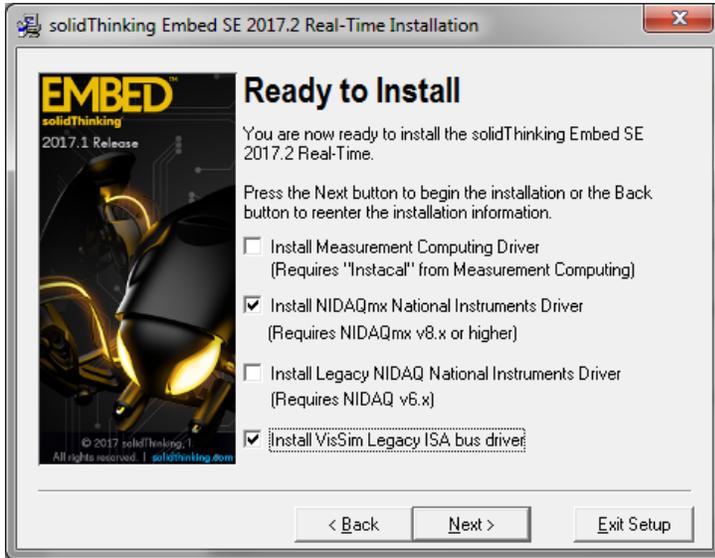
10. Select the name for the Windows **Start Menu Group**; then press **Next**.

The *Ready to Install* window appears:



After you press **Next**, additional dialogs are then displayed that correspond to the selections you made in step 6 in the *Select Modules* window.

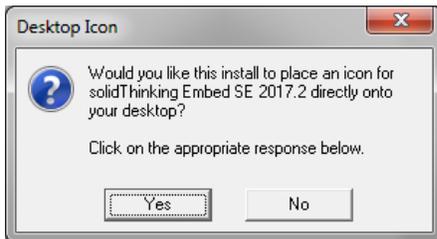
If you selected **Real Time Analog/Digital I/O** in step 6, the following window appears:



11. Select the drivers that correspond with the I/O boards you want to use; then press **Next**.

**Important:** You must install the drivers on your computer before installing solidThinking Embed SE.

The modules you selected in step 6 are then installed. Upon completion of the installation, you are given the option to create a desktop shortcut:



12. We recommend you choose **Yes**.

13. The *Installation Completed* window appears:



14. Press **Finish** to exit the install program.

### STEP 3: Setting up a solidThinking Embed SE license

After you install solidThinking Embed SE, you must sign in to the [solidThinking Registration webpage](#) to request a license file for your software. If you do not have a license file properly installed on your computer or server, you will not be able to run solidThinking Embed.

#### Setting up a node-locked license

There are two steps to set up a node-locked license:

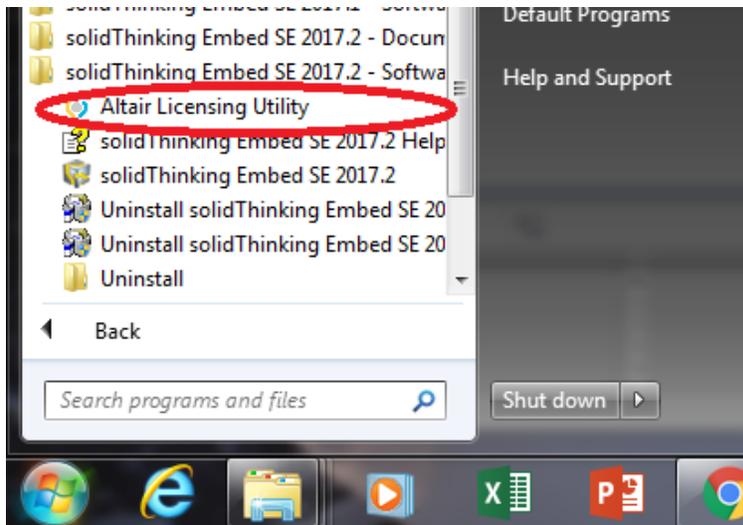
1. Register your license.
2. Activate your license.

Please read through all the steps before you begin the set-up procedure.

#### Registering your license

Please note the following as you fill in the information on the [solidThinking Registration webpage](#):

- **License serial number:** This serial number was emailed to you after you purchased your license.
- **Computer Host ID and Host Type:** To retrieve your computer Host ID and Host Type, run the Altair Licensing Utility (amutil\_gui.exe) from the Start menu:



The Host ID number and Host Type are under the HostID tab.

After you submit your registration, you will receive a license file at the email address you provided. You will need the license file when you [activate your license](#).

## **Activating your license**

There are two ways to activate your license:

- Set the `ALTAIR_LICENSE_PATH` variable to point to where you stored your license file on your local drive
- Place the license file in your *Embed-installation-folder*/security folder and rename the file to `altair_license.dat`

### **To set the `ALTAIR_LICENSE_PATH` variable**

1. Press the **Start** button.
2. In the pop-up window, click on **Control Panels**.
3. Click on **Systems** and select **Advanced system settings**.
4. Select the **Advanced** tab.
5. Click on **Environment Variables**.
6. Under **User Variables**, select or create **ALTAIR\_LICENSE\_PATH**.
7. In the corresponding cell in the **Value** column, enter the complete path and file name for the license file; for example, `C:\AltairLicenseFile\ALUS_ALUS_20151226_324178.dat`.

### **To place the license file in the install directory**

When using a local license file, without defining `ALTAIR_LICENSE_PATH`, you can rename the license file to `altair_lic.dat` and place it in the *<Embed-installation-folder>/security* folder.

**Note:** Many Windows-based computers are configured with Hide Extensions for Known File Types activated. If your computer is configured this way, you should check the name of your license file after renaming it by doing the following:

1. Open a **Windows Explorer** window.
2. Go to the license file folder.
3. Right-click `altair_lic.dat` and click **Properties**.  
The entire license file name is displayed.
4. If multiple extensions are displayed, delete the unwanted file extensions and click **OK**.

## **Setting up a network license**

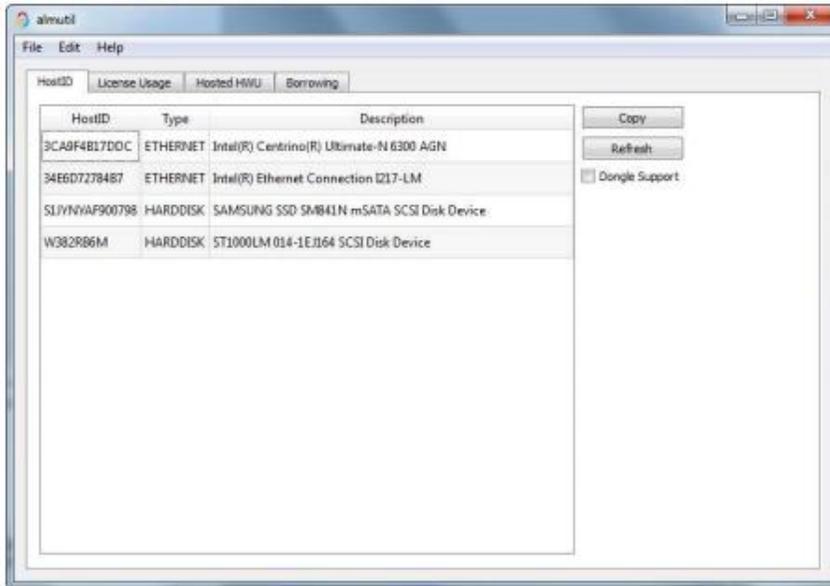
There are four steps to set up a network license:

1. Register your license.
2. Install the license server.
3. Activate the license server.
4. Connect a PC to the network license.

Please read through all the steps before you begin the set-up procedure.

## Registering your license

1. Click the **Start** button and navigate to the **Altair License Server 13.2** folder; then click on **ALMUtil**.
2. The almutil dialog box appears. If the **HostID** tab is not currently open, click on it.



3. Copy the **HARDDISK** HostID.
4. Go to the [solidThinking Registration](#) webpage and paste the **HARDDISK** HostID into the Host ID field.
5. Complete and submit this form to obtain your license file via email. You will need your license file when you install and activate your license.

## Installing the licenser server

You can install the license server on either a Windows-based computer or Mac OS X computer.

### To install a license server on Windows

1. Download the [altair\\_licensing\\_13.2.0.win64\\_x64.exe](#) file.
2. Launch the license server installer.
3. The *Altair Licensing Installation* window appears. Proceed through the next few dialogs, entering information for the installation path.
4. Click **Next**.
5. Do one of the following:
  - If you have an existing server license file, choose **Yes** and enter the location of the license file. After finishing the installation, the license server will automatically start. Skip to Step 7 under [Activating the license server](#).
  - If you do not have a license file, choose **No**, then click **Next**. You will proceed without a license file and add it later to the appropriate location.
6. Review the installation directory and disk space information, then click **Install**.
7. Click **OK** when the Information for obtaining a license file dialog appears.
8. Click **Done** to close the license server installation.

## To install a license server on a Mac OS X

1. Download the [altair\\_licensing\\_13.2.0.darwin\\_universal.zip](#) file.
2. Launch the license server installation.
3. The *Altair License Server 13.2 Installation* window appears. Click the **lock** icon and enter your administrator password. Proceed through the next few dialogs, entering information for the installation path.
4. Click **Next**.
5. Do one of the following:
  - If you have an existing server license file, choose **Yes** and enter the location of the license file. After finishing the installation, the license server will automatically start. Skip to Step 7 under [Activating the license server](#).
  - If you do not have a license file, choose **No**, then click **Next**. You will proceed without a license file and add it later to the appropriate location.
7. Review the installation directory and disk space information, then click **Install**.
8. Click **OK** when the Information for obtaining a license file dialog appears.
9. Click **Done** to close the license server installation.

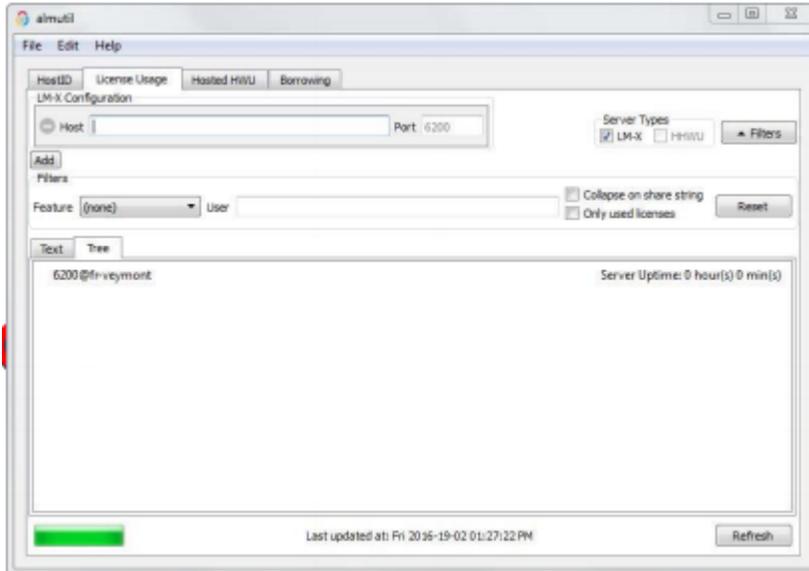
## Activating the license server

1. Rename the license file sent to you by solidThinking to `altair_lic.dat`. (Make sure you are showing extensions for known file types.)
2. Drag and drop the license file into the server installation's root directory using Windows Explorer. (The default location is `C:\Program Files\Altair\licensing13.2`). This will overwrite the empty `altair_lic.dat` file already found in that directory.
3. From the same directory, open `altair-serv.cfg` in a text editor. Find the line that reads `LICENSE_FILE = C:\Program Files\Altair\licensing13.2\ECHO is off`. Remove "ECHO is off." and replace it with "`altair_lic.dat`," then save the file.

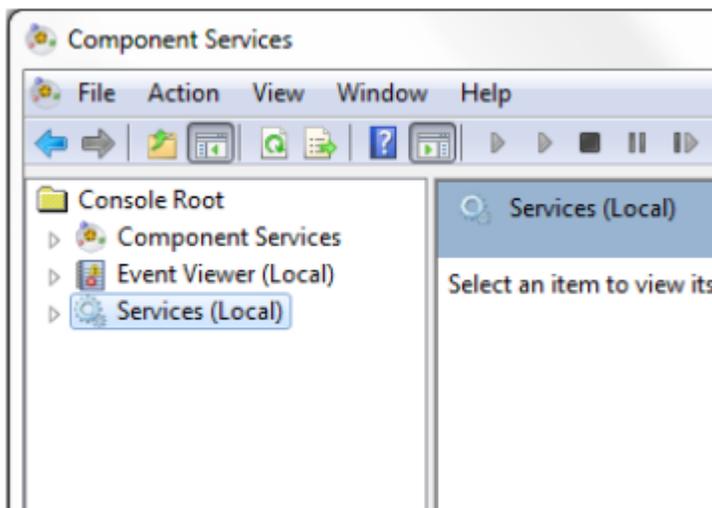
```
*****
# Set a license file path:
#
# On Windows: If no file is set, the license server
# will look for <vendor>.lic in the same directory as the license server
# On Unix: If no file is set, the license server will look for
# /usr/x-formation/<vendor>.lic
#
# In both cases, the filenames must be lowercase.
#
# You can specify one or multiple paths as needed.
#
*****
# Examples:
# LICENSE_FILE = d:\server\network.lic
# LICENSE_FILE = c:\extra_file.lic
# LICENSE_FILE = /home/user1/floating_license.lic
# LICENSE_FILE = /home/user1/floating_license2.lic
LICENSE_FILE = C:\Program Files\Altair\licensing12.0\altair_lic.dat
```

4. Click the **Start** button and navigate to the **Altair License Server 13.2** folder.
5. Click on **ALMUtil**. The `almutil` dialog box appears.

6. Click the **License Usage** tab. You should see there are no licenses served by the license server.

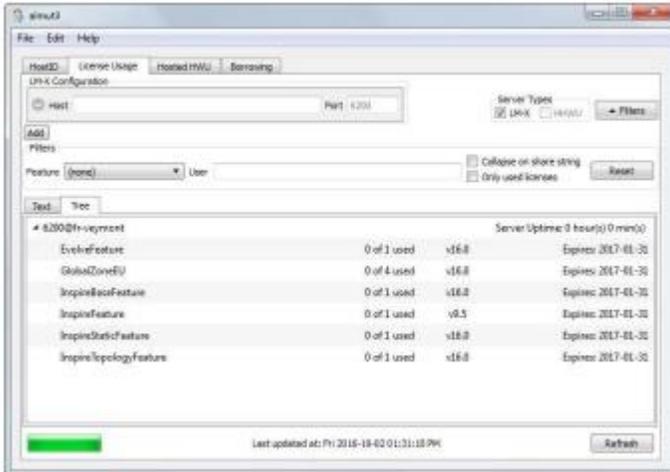


7. Click the **Start** button and type **services** into the programs search bar; then click **Enter**.  
The Component Services dialog box appears.



8. Click **Services (Local)** located at the bottom of the **Console Root**.
9. Select the **Altair License Server** in the list of services and click **Restart the service** to the left of the services list.

10. Click on the **License Usage** tab and then click **Refresh**. The output looks like the image below:



The server is now up and running.

### **Connecting a PC to the network license**

1. Make sure you have the port and host name of your license server. This information is required to connect to an existing license server and should have been provided to you by your system administrator.

2. Set the `ALTAIR_LICENSE_PATH` variable by following these steps:

- Press the **Start** button.
- In the pop-up window, click on **Control Panels**.
- Click on **System** and then select **Advanced system settings**.

The System Properties dialog box appears.

- Select the **Advanced** tab.
- Click on **Environment Variables**.
- Under **User Variables**, select or create `ALTAIR_LICENSE_PATH`.

g. In the corresponding cell in the **Value** column, enter the *port* and *host name* of your license server in the following format:

*port@host*

Examples of *port@host* include `6200@192.168.100.5` and `6200@company_server_name`.

### **If you need licensing help**

If you are having trouble licensing your software, please describe what you did in an email and send it to [embed-support@altair.com](mailto:embed-support@altair.com). Make sure you include the following information:

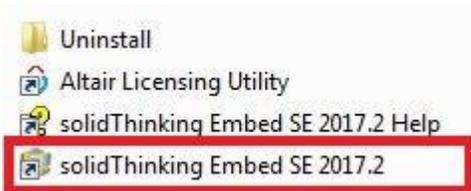
- Product name and version number
- Product serial number
- Attach your Licensing.log file (in *Embed-installation-folder*>/security folder) to the email

# Invoking solidThinking Embed SE

After you complete the installation process, you can invoke solidThinking Embed SE from the Windows Start menu or the desktop icon, if you chose to create it.

## Invoking solidThinking Embed SE from the Start menu

1. Click the **Start** button.
2. Click **All Programs**.
3. Scroll through the pop-up menu to find the following:



4. Click on the program outlined in **red** above.

## Invoking solidThinking Embed SE from the desktop

On your Desktop, you can start solidThinking Embed SE by clicking on the following icon:



# Uninstalling solidThinking Embed SE

To uninstall Embed SE, please use the following Uninstaller links, which you can access from the Start menu under **solidThinking Embed SE 2017.2 > Uninstall**. First uninstall CanPeak, OPC, Open Vision, Real-Time, and UDP; and finally Embed SE.

