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Installation Guide

Server Installation

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SCIA Engineer 17.0

1. Introduction

1.1 Welcome

Welcome to the SCIA Engineer Installation Guide. SCIA Engineer is a calculation program running under Windows. It has a large range of applications: from the check of simple frames to the advanced design of complex projects in steel, concrete, wood, etc.

The program handles the calculation of 2D/3D frames, including the profile check and the connection check for steel constructions. Apart from frames, it is also possible to model and analyze plate structures, including advanced concrete calculations.

This manual describes the procedures for a correct installation of the application with network protection on the server as well as SCIA Engineer installed locally on the client's computer. To install the SCIA Engineer license on the server, it is necessary to be on the console (not with remote desktop) to activate the licence.

The final two chapters include the procedure for uninstalling the software (Chapter 6) and a guide for troubleshooting common issues. (Chapters 7 & 8).

1.2 System Requirements

To install SCIA Engineer it is recommended that your system qualifies the following requirements:

Hardware

Processor	Minimum: Intel Core2Duo or AMD equivalent (Advised: Intel Core-i5 or AMD equivalent)
RAM	2 GB (Advised: > 4 GB)
Graphics Controller	256 MB, supporting OpenGL
Free disk space	5GB
Minimum resolution	1280 x 800

Software

Supported Windows OS	Windows 2008 server 64 bit Windows 2012 server 64 bit Windows 7 32/64 bit Windows 8.1 32/64 bit Windows 10 32/64 bit
API link with Revit (http://www.scia.net/revit)	SCIA Engineer 17 is compatible with: Revit 2016, Revit 2017, Revit 2018
API link with Tekla	SCIA Engineer 17 is compatible with: 32/64 bit versions of Tekla Structures 2016, Tekla Structures 2016i, Tekla Structures 2017, Tekla Structures 21.0, Tekla Structures 21.1
Etabs	SCIA Engineer 17 is compatible with: Etabs 9.2
IFC	SCIA Engineer 17 is compatible with: IFC version 2x3
SDNF	SCIA Engineer 17 is compatible with: SDNF version 2.0 SDNF version 3.0

2. First installation of the protection on the server

Network protection for SCIA Engineer can be installed on any computer in the network. Each of the authorized modules can have a different number of licenses, which can be started simultaneously. Before SCIA Engineer is started, the user can determine (in a separate protection setup utility) which modules he/she wishes to use in the session and which modules he/she wishes to remain available for the other users.

On the license server, a setup of FlexNet (for SCIA Engineer 17, the version of FlexNET must be 3.0.2 or higher) will be installed. This setup contains drivers for the SCIA network dongle which is used for the floating protection. If you wish to change the license to another computer, then you need to install FlexNET on the other PC, deactivate the license on the older server, and activate it on the new PC.

It is advised to always install the latest version of FlexNET. This can be found on the following site:

<http://scia.net/en/support/downloads/latest-version-flexnet>

The installation procedure for the protection on the server consists of the following steps:

- Installation of the FlexNET network Protection (which automatically includes the old FlexID installation)
- Activation of licences
- Configuration and start of the FlexNet Server

2.1 Installation of FlexNET

1. Download the latest SCIAFlexNET from our website:
<http://scia.net/en/support/downloads/latest-version-flexnet>
2. Unzip this file and double click on Setup.exe to start the installation
3. Install FlexNET by following the instructions on the screen.
4. By default FlexNet is installed in the folder
C:\Program Files (x86)\Common Files\SCIA\LicenceServer\FlexnetServer.

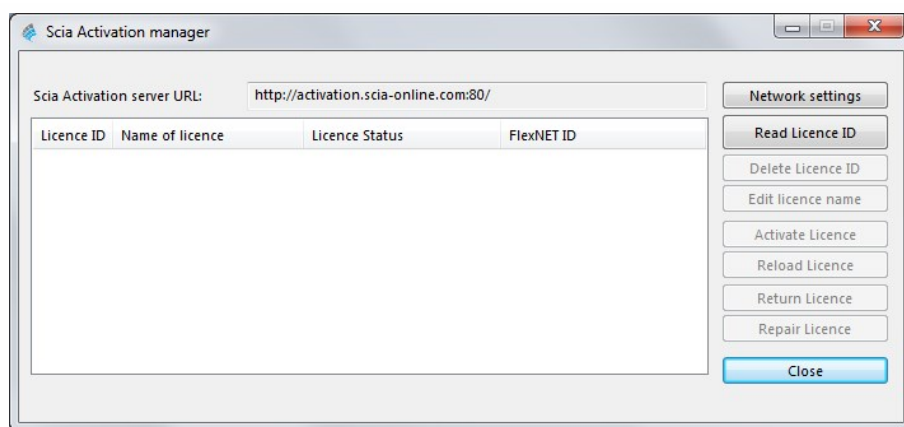
It will add the following programs to your server, which are needed in the next steps:

- a. SCIA Activation Manager (ActivationUtility.exe)
- b. FlexNET License Administrator (Imadmin.exe)

2.2 Activation of licences

1. Attach the FlexID dongle (the USB dongle for your server license) to the server.
2. The Lock ID (the special internal ID number for the lock) is stored in a .lid-file (this is the file you'll need in the next step to link this specific dongle to the server), which has been sent to you by email. If you didn't receive this file, it can be requested by sending an email to support@scia.net with the following information:
 - Your company name
 - Your name and return email address
 - The (list of) LID-number(s) (6 number figure(s), starting with '6')

3. Execute the SCIA Activation Manager (ActivationUtility.exe)

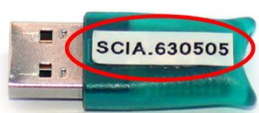


Press [Read Licence ID]



If you are using proxy settings, then configure Network Settings for the activation to work. If this still won't work, refer to section 8.6.

The Lock ID is stored in a SCIAxxxxxx.lid-file, where x represents the number of your dongle. This number is indicated on the dongle as shown below:

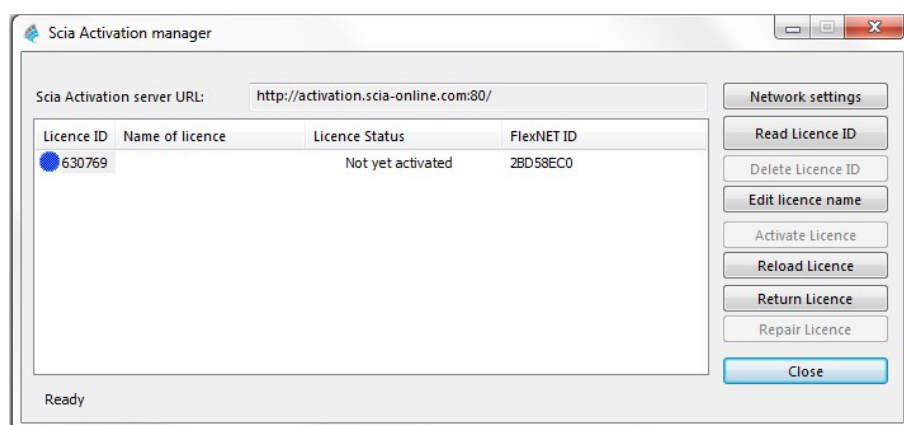
Dongle	File:
	SCIA630505.lid

Choose the correct lid-file and press [Open]



The data in this file together with the presence of the dongle itself on the server will be converted to a license file. This license file will be used by the FlexNET License administrator to send out licenses to start SCIA Engineer.

4. The number of your license file will appear in the FlexNET activation utility window.

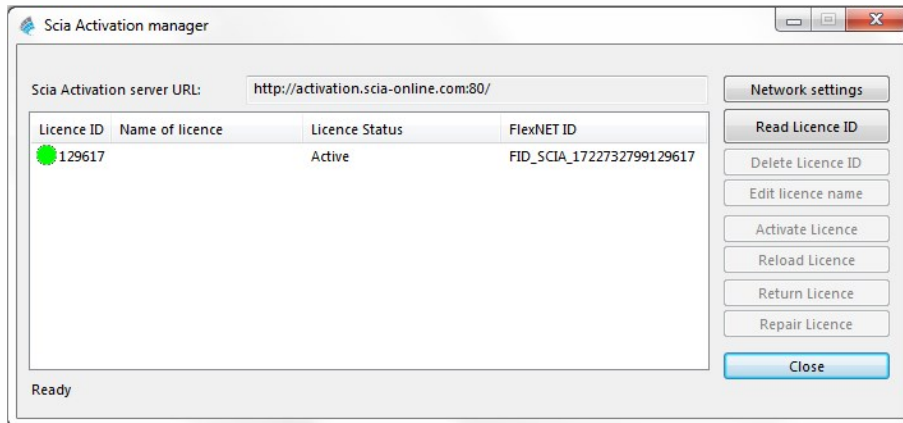


Select this number and press [Activate licence]



It is not possible to activate the license file using remote desktop (to try and push this command, see also section 8.2). For problems with proxy settings, check 8.6.

5. Afterwards you will receive a warning message about returning the licence before activating it on another server. Click [OK] and the circle in front of the license number will become green and the license file has been activated.

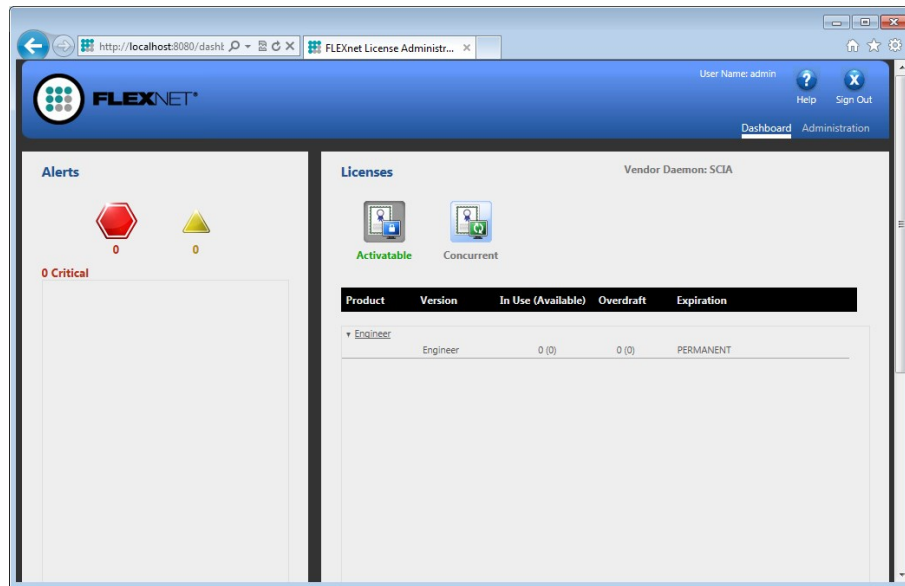


Press [Close]

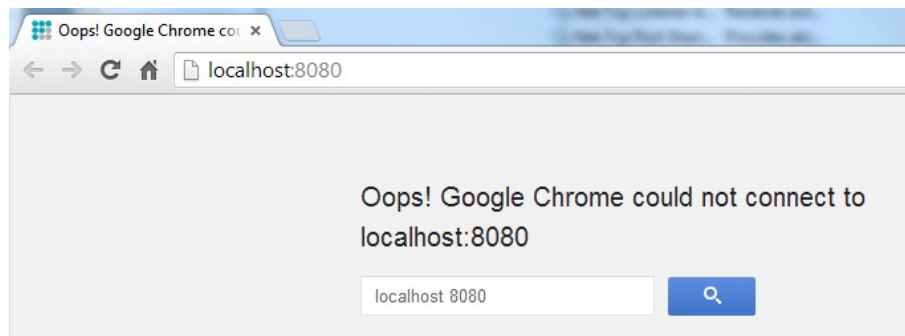
2.3 Configuration of the Server

From version SCIA Engineer 2010.0, the network protection uses FlexNET. In versions before 2010.0 (2009.0, 2008.1, Esa Prima Win) FlexLM was been used instead of FlexNET.

- FlexLM is actually the same as FlexNET, but an older version of it, and it uses "LMTOOLS" instead of the "Activation Manager"
 - For SCIA Engineer 17, the version of FlexNET has to be at least 3.0.2.
 - The FlexNET software can also be configured to provide "old" licenses (see 8.4)
1. Start the FlexNET license administrator
 - a. OPTION 1: Execute the FlexNET license administrator
(can be found under
Start > Programs > SCIA License Server > FlexNET license administrator)
 - b. OPTION 2: Open an internet browser and navigate to <http://serveraddress:8080> (e.g. <http://localhost:8080>)



If the service "ladmin.exe" is not started, then you will not be able to connect in step 1. You can see more information in Section 8.5 about ladmin.exe (this is the service that is being managed by the FlexNET license administrator).



2. Click on [Administration] and sign in (for the first login use "admin" for user name and password).

Sign In

User Name:

Password:

☐ Remember me

Submit **Cancel**

3. Go to "Vendor daemon configuration" and click [Administer].

FLEXNET User Name: admin Help Sign Out

Dashboard Administration

Vendor Daemons

Import License

Name	Status	FLEXnet Publisher Version	Port	Actions
SCIA	RUNNING	11.10	60786	Administer Delete

System Information
 User Configuration
 Alert Configuration
 Server Configuration
 Vendor Daemon Configuration

4. First stop the server before adapting the settings.

Vendor Daemon: SCIA

Vendor Daemon Port in Use: 61175

Vendor Daemon Actions

Stop Reread License Files

5. In the "General configuration" section it is necessary to set the correct path to license file (by default this is scia\SCIA_Software.lic). It can also be changed in order to refer to a *.DAT file (to configure FlexNET for old versions of SCIA Engineer & EsaPrimaWin, see Section 8.4 for how to do this). The path for the vendor daemon (SCIA.exe) should be scia/scia. Please note the importance of the back and forward slashes!

The Vendor daemon port is the port which is used for communication between scia.exe and lmadm.exe. It is not used for communication between SCIA Engineer and the license server.

Restart retries specifies whether the license server will be automatically started after restart of license server machine (also restart after sleep mode). Set the value to 1 in order to enable automatic restart of license server.

The screenshot shows the 'Vendor Daemon Actions' dialog box with the 'General Configuration' tab selected. At the top, there is a 'Start' button. Below it, the 'General Configuration' section contains the following fields:

- * License File or Directory:** A text box containing 'scia\SCIA_Software.lic'.
- Vendor Daemon Location:** A text box containing 'scia/scia'.
- * Vendor Daemon Port:** Two radio buttons: 'Use default port' (selected) and 'Use this port: 0'.
- * Restart Retries:** A text box containing '1'.
- ☐ **Enable Date-based Versions**

6. In the "vendor daemon log" section, it is possible to modify the position of log files or show the log file:

The screenshot shows the 'Vendor Daemon Log' dialog box. It contains the following elements:

- ☐ **Overwrite Vendor Daemon Log**
- Vendor Daemon Log Location:** A text box containing 'logs/SCIA.log'.
- [View file externally](#)

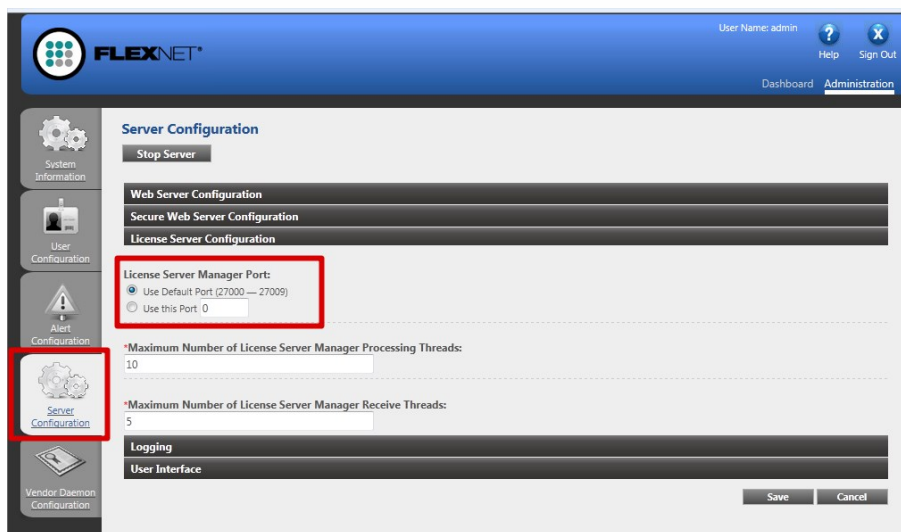
7. When you are finished making changes, make sure to save the configuration:

The screenshot shows two buttons: 'Save' and 'Cancel'.

8. Once the daemon is configured correctly, it can be started using the "Start" button.



When the user wants to use another TCP port (e.g. 7182), it is possible to change this under “Server configuration > License Server Configuration > License Server Manager port” (see image). But after changing the port, you will have to restart lmadmin.exe (you can restart it in the services, or you can restart the server).



3. Update of the server for a new version



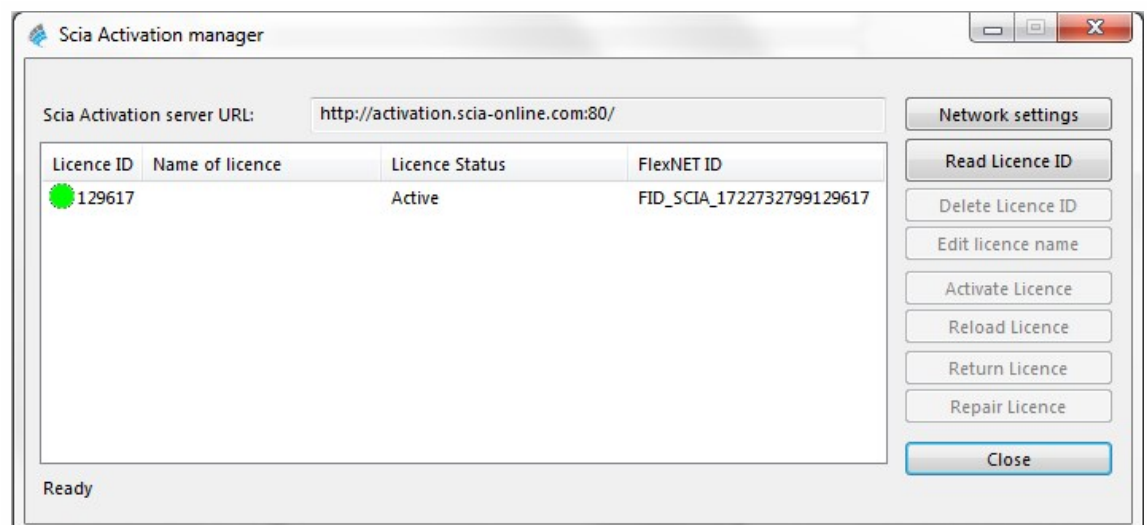
For SCIA Engineer 15 and later, you must check your version of FlexNET.
SCIA Engineer 17 requires a version of FlexNET that is at least 3.0.2.
It is not possible to provide licenses for SCIA Engineer 17 with an older version.

SCIA Engineer 16.1	SCIA	16.1.3033	1,89 GB
SCIA Engineer 17.0	SCIA	17.0.26	1,80 GB
SCIA Licence Server x64	SCIA	3.0.2	81,2 MB



If your server is using LMTTools to divide licenses, then you are using FlexNET version 1.X.X and you must also upgrade your FlexNET. To upgrade, first go to the activation manager and return ALL licenses. Then remove FlexNET from the server. The location for the setup and the installation for the new FlexNET is described in chapter 2.

1. Execute the SCIA Activation manager. This can be found by default in: "C:\Program Files (x86)\Common Files\SCIA\LicenseServer\ActivationUtility\ActivationUtility.exe"

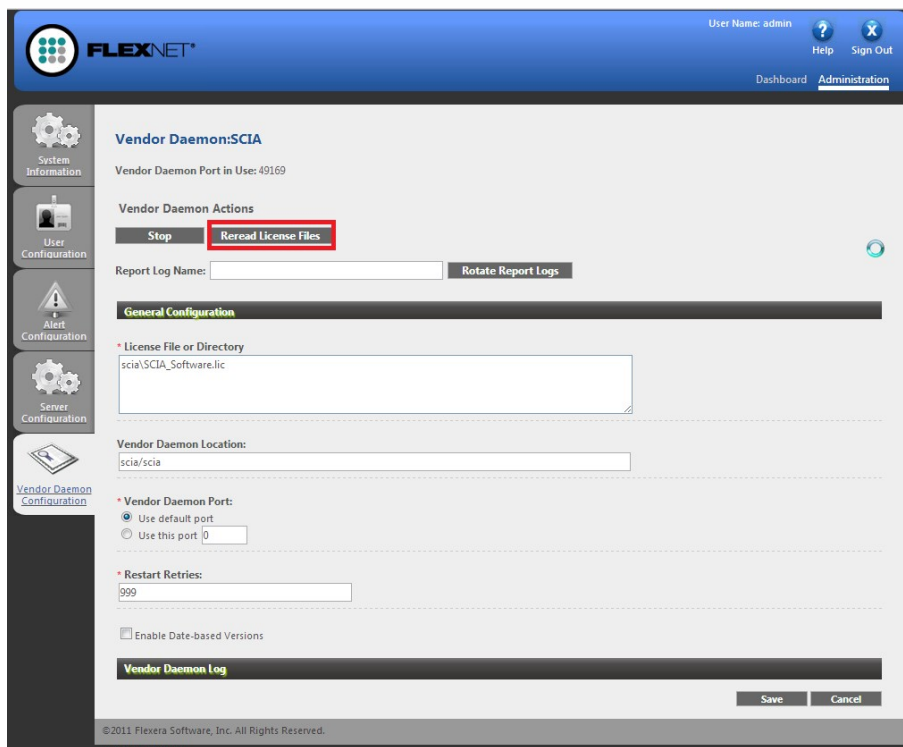
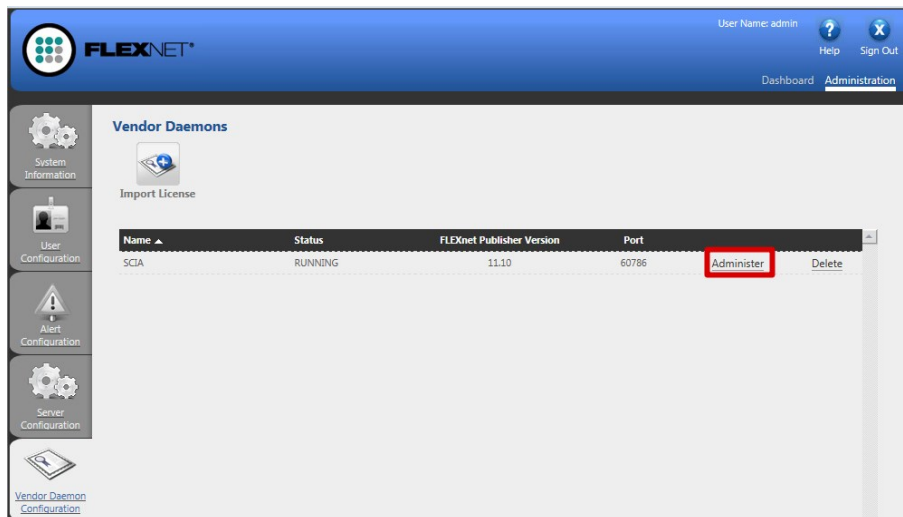


2. Select your license number and press [Reload License]
3. If the activation has succeeded, you will receive a message that tells you that the license is now bound to the server and must be returned before removing or changing hardware to the server (and before removing software relevant to the activation utility).



It is not possible to activate the license file using remote desktop (to try and force this command, see Section 8.2). For problems with proxy settings, check Section 8.6.

4. Now you must execute the [Reread License Files] option in the FlexNET license administration:



4. Extra options on the server

4.1 Checking the status of license server

The status of SCIA License server can be checked on the "Dashboard" of the web based interface. It is possible to see alerts and warnings here and to see which licenses are available at the server. There are provided information about availability, expiration or current users (Hosts) for each module.

Feature	Version	In Use (Available)	Expiration
ESA.ED.BA ENG EC	1.0	0 (1)	PERMANENT
ESA.ED.BA FRA CM	1.0	0 (1)	PERMANENT
ESA.ED.BA FRA EC	1.0	0 (2)	PERMANENT
SCIA Software	1.0	0 (1)	PERMANENT
ESA.1010	1.0	0 (4)	PERMANENT

4.2 Deactivating the license file before a server migration

Deactivating the license file is necessary when changing the dongle from one server to another. In this case it is necessary to deactivate the license file on the original server before activating the same license on the new server. You can deactivate the license using the following steps:

1. Using Windows Explorer, go to the folder
C:\Program Files (x86)\Common Files\SCIA\Protection\ActivationUtility
2. Execute the file ActivationUtility.exe
3. Select the License file number and press [Return License]
4. Press [Close]

Now it is possible to activate the license on the new server. Please follow the instructions provided under chapter "2. First installation of the protection on the server" on page 8 in order to install the protection on the new server.

5. Installation of SCIA Engineer on the client pc's

5.1 Installation of SCIA Engineer

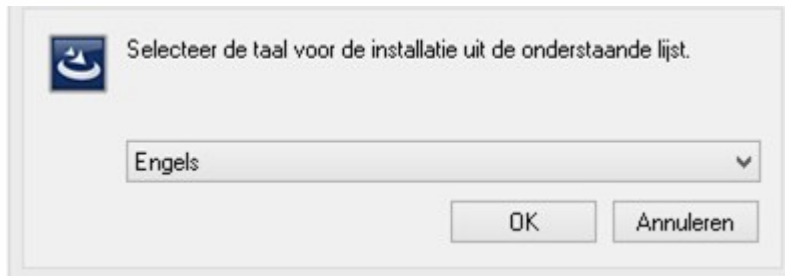
1. You can start the installation using the web setup from our site:

Go to our download page:

<http://www.scia.net/en/scia-engineer-setup>

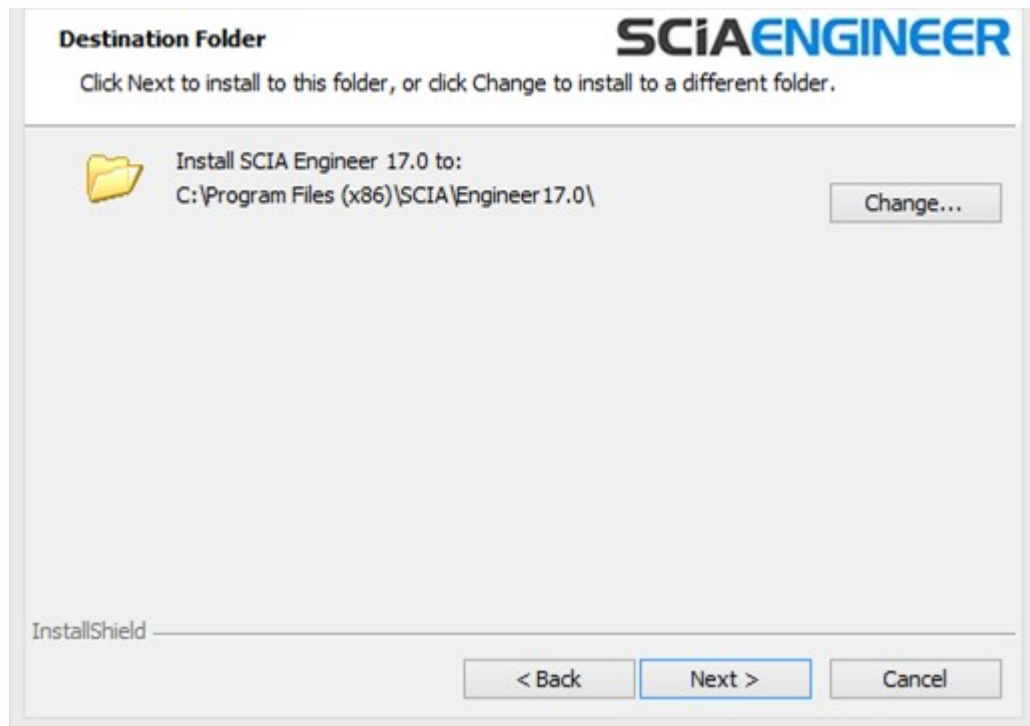
And run the web setup.

2. In the dialog box which appears, select the language for installation:



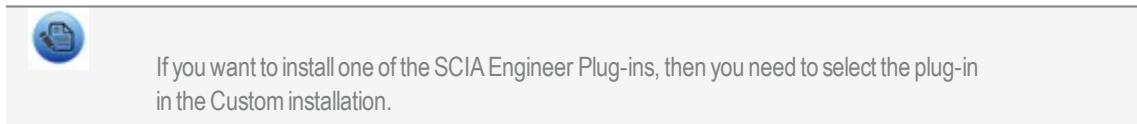
The language chosen for installation is also the default language that will be used for the help files of SCIA Engineer.

3. The Welcome screen for installation appears. Press [Next] to continue.
4. In the dialog Customer Information, the User Name and Company Name can be inputted. The Company Name will appear automatically in the document of SCIA Engineer. Press [Next] to continue.
5. In the dialog Choose Destination Location, the folder where the files will be installed can be specified. By default the destination folder is created in Program Files. It is advised to use this default location.

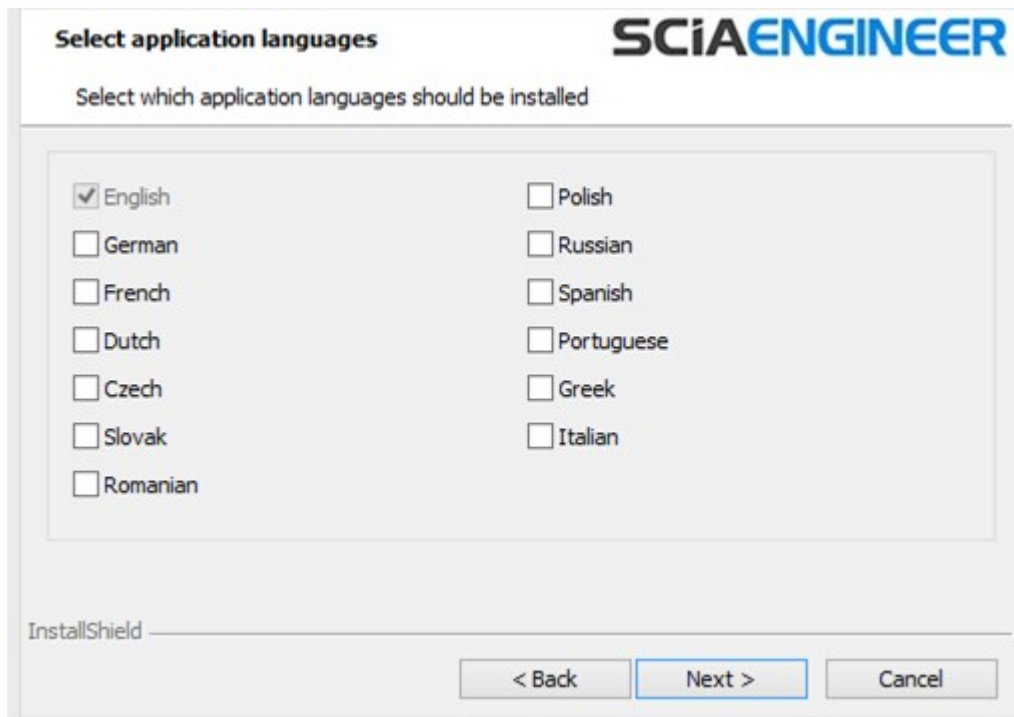


Press [Next] to continue.

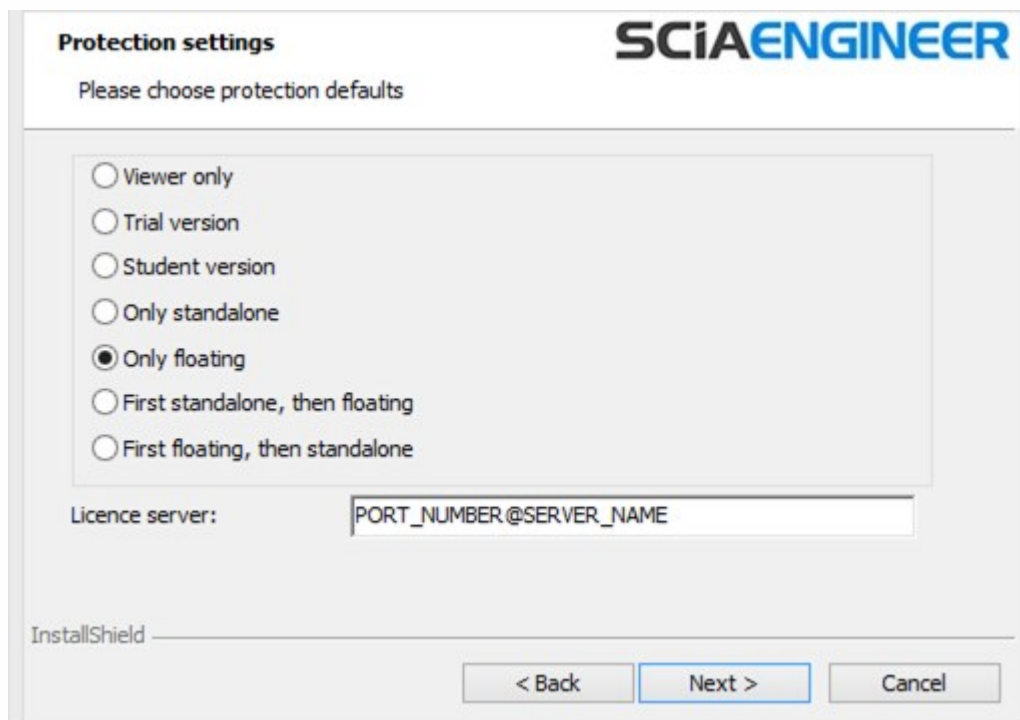
6. In the dialog Setup Type the preferred setup can be chosen. Press [Next] continue. We advise to choose Custom so that you can check the add-ons that will or won't be installed by default. Make sure that ALL required add-ons are selected to be installed. If you are not sure about a certain component, it is better to install it anyway.



7. Select the application languages that should be installed (additional languages can only be used if you have the language module for it in your licence)



8. In the dialog Protection Defaults the default values for the protection settings can be set.



- Select Only floating.
- Fill in the correct path to the License server:
 - E.g. 27000@Server
 - The number 27000 refers to the TCP-port. Default this port is 27000, but it can be adapted in the license file (see chapter "8.3 Changing the TCP Port" on page 29).
 - Localhost should be replaced by the name of the license server.

Press [Next] to continue.



When using a dongle together with a FlexNET network license, the options “First standalone, then floating”, or “First floating, then standalone” can be chosen.

8. In the dialog Application Defaults the default values for the national code can be set.

Autosave criteria can also be established and additionally, the autosave folder location can be modified.

Choose the default setting for your national code and measurement system. Press [Next] to continue.

9. The next window, allows the user to select the required desktop icons.
10. The last window shows an overview of the selected settings. Press [Install] to start the installation process.
11. After installation, the message appears that SCIA Engineer has been installed successfully. Press [Finish] to end the installation procedure.

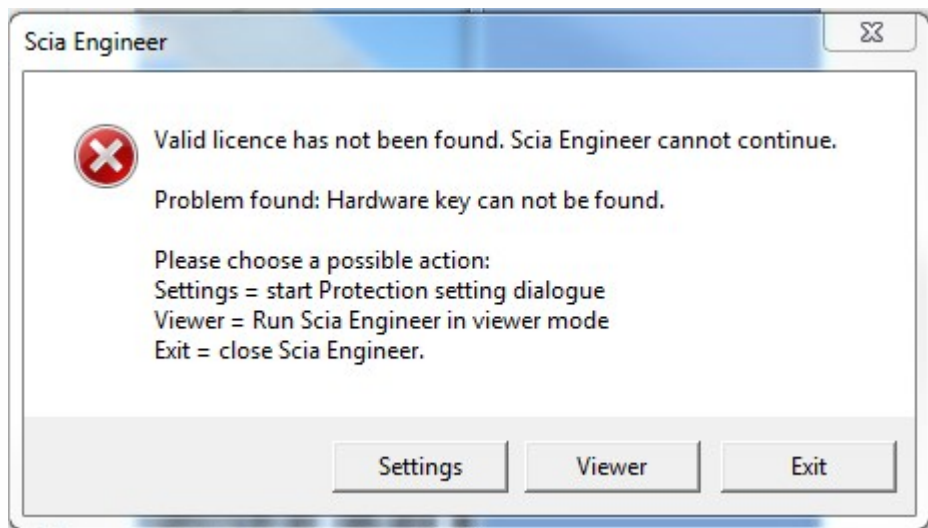
5.2 Start SCIA Engineer

Double click on the SCIA Engineer 17 icon to start the program.



When the protection update succeeded, SCIA Engineer will start up and the installation is finished.

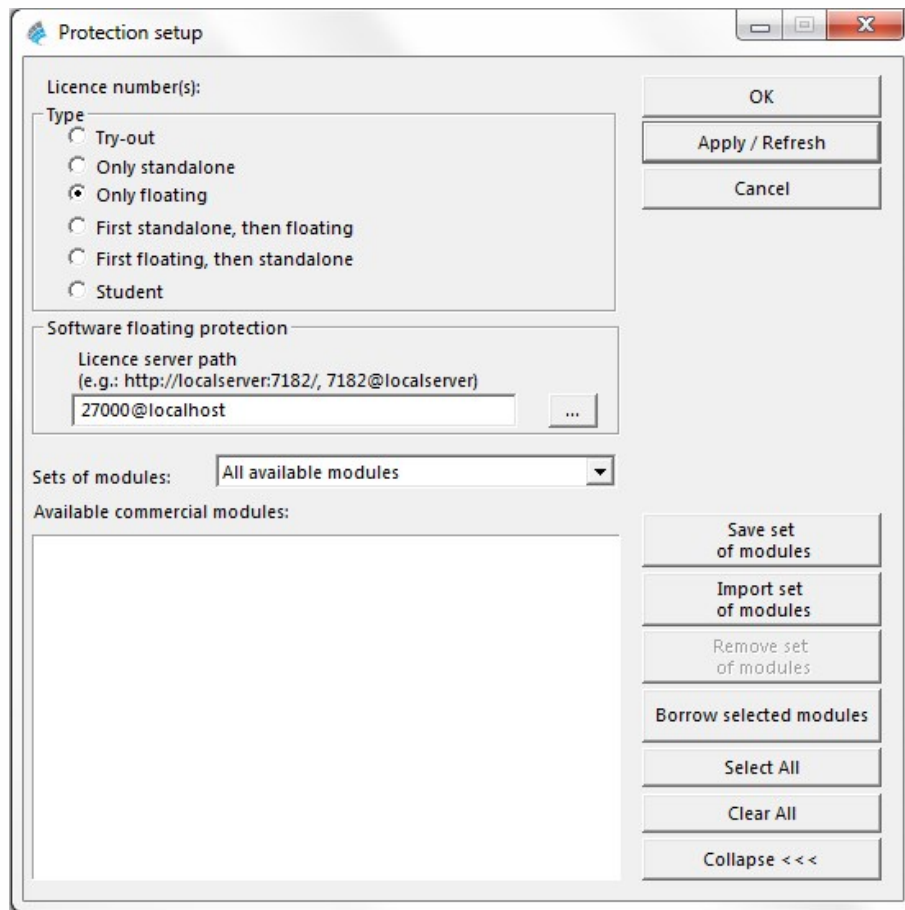
If SCIA Engineer does not start immediately, the following screen will appear and follow the steps below to update the protection:



1. SCIA Engineer cannot start without a correct protection. Press [Settings] to run the protection setup to update the protection.
2. The Protection setup will be displayed

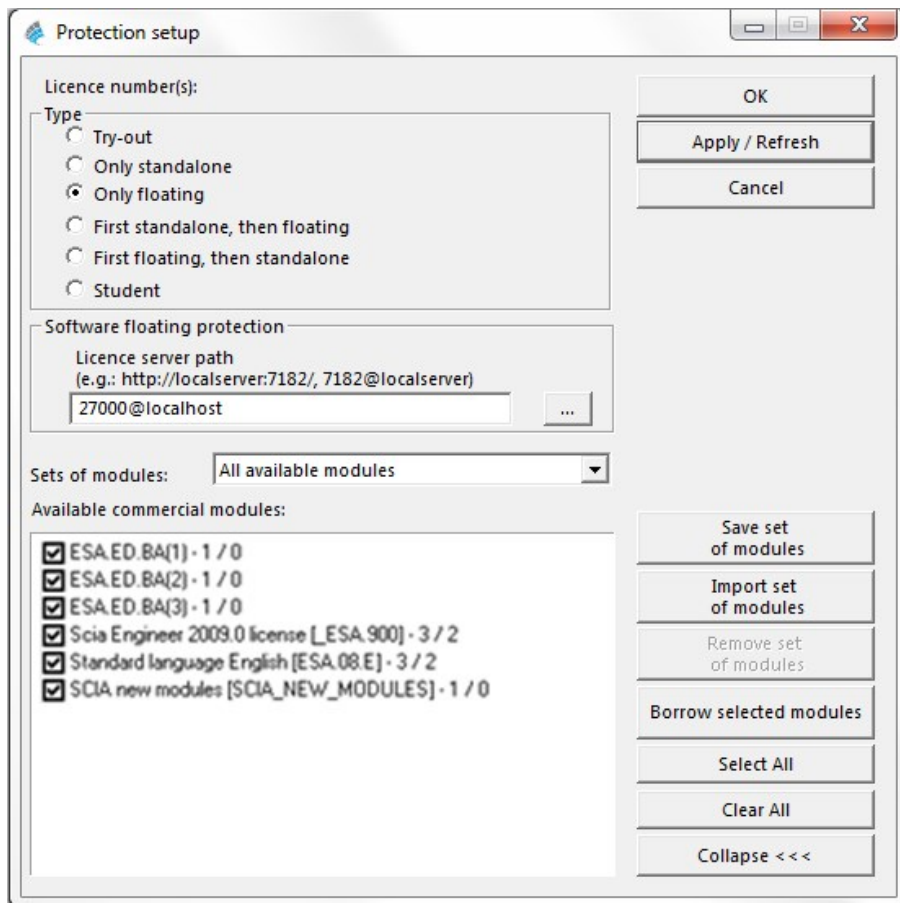
Select the option Only floating and fill in the correct path to the License server:

- E.g. 27000@SERVER
- The number 27000 refers to the TCP-port. Default for this port is 27000, but it can be adapted in the FlexNET License Administrator (see chapter "8.3 Changing the TCP Port" on page 29)
- SERVER should be replaced by the name of the license server (which you can see under the tab "System Information" in the FlexNET License Administrator).



Press [Apply / Refresh]

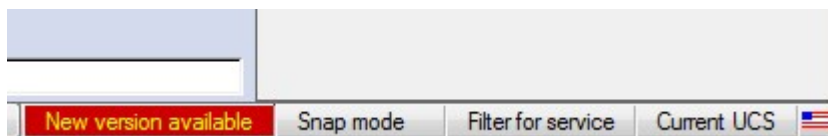
4. The available commercial modules will appear in the window:



5. Press [OK] to close the protection Setup
6. Double click on the SCIA Engineer 17 symbol to start the program.
7. When the protection update succeeded SCIA Engineer will start up and the installation is finished.

5.3 Update

When an update is available, you will see a notification at the bottom right corner of SCIA Engineer itself:



When you click on New version available you can choose "Install update" and the updates will be installed automatically.

In SCIA Engineer it is also possible to check if an update is available, using Help -> Check for update in SCIA Engineer.

It is also possible to disable this option in the registry on the client's computer by navigating to:

HKEY_CURRENT_USER\Software\SCIA\Esa\xx.x\Admin\Settings\EnableUpdateMenu

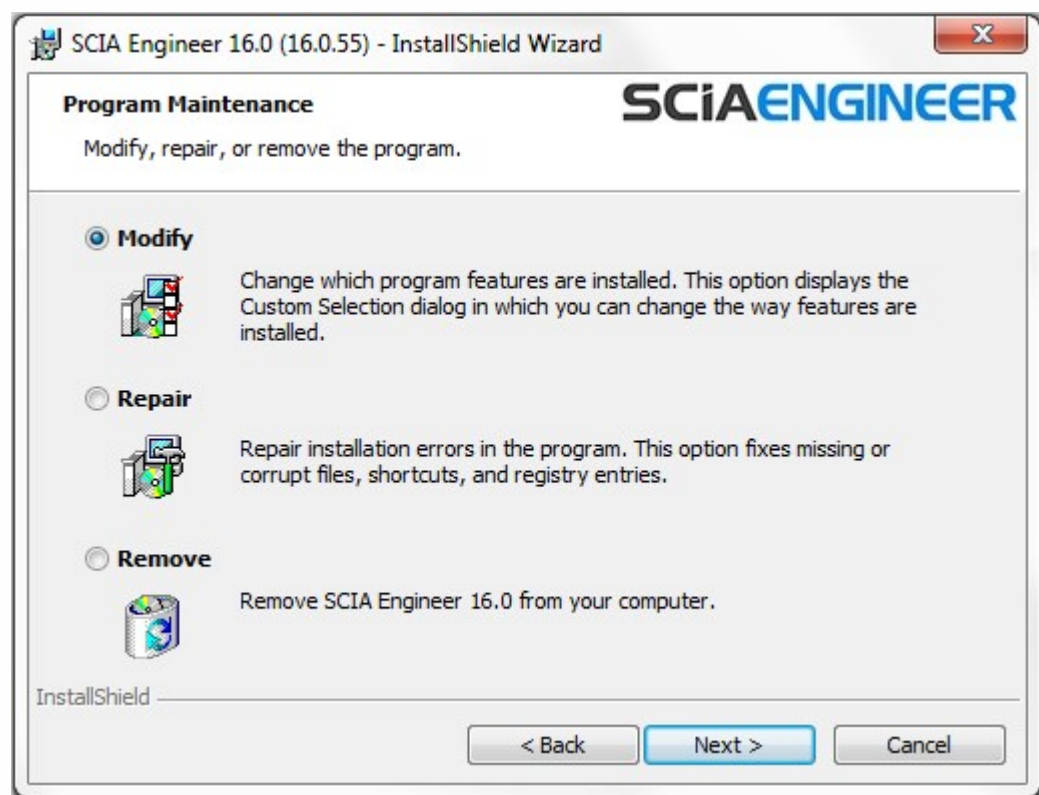
and setting the value here to: 0

6. Uninstalling SCIA Engineer

6.1 Uninstalling with Add/Remove Programs in Windows

SCIA Engineer can be uninstalled like any other windows based software application:

1. Go to Add or Remove Programs through Start > Settings > Control Panel > Add or Remove Programs.
2. A list with installed software applications will appear. Select SCIA Engineer and press [Change/Remove]
3. In the dialog box that appears choose the option Remove



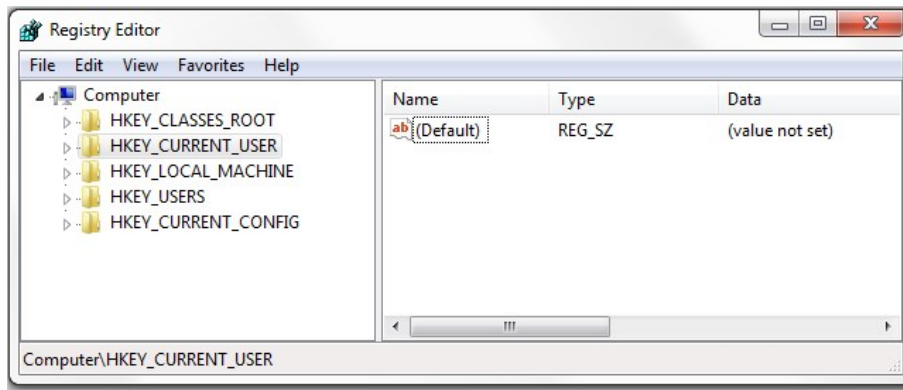
4. Press [Next] to start the uninstall procedure.

After completing the uninstallation, some settings remain in the Registry of windows. These traces can be deleted manually. Deleting these entries can be necessary when problems occur with a new installation.

1. Open the Run dialog box through Start > Run
2. Type regedit and press [OK]

Take note, for this step it is required to have Administrator rights!

3. The Registry Editor appears.



4. Go to the following key's and delete them using the Delete button.

HKEY_CURRENT_USER\Software\SCIA\ESA*

HKEY_LOCAL_MACHINE\Software\SCIA\ESA*

Where * represents the version number.

5. Close the Registry Editor through File > Exit

After completing the uninstallation, some folders remain on your hard disk and can be deleted manually:

32 bits computer: C:\Program Files\SCIA\Engineer**

64 bits computer: C:\Program Files (x86)\SCIA\Engineer**

Also the following folders remain on your hard disk and can be deleted:

Windows 7/8/10: C:\Users\#User#\Esa**

C:\Users\#User#\Documents\Esa**

Where ** represents the version number



These folders can be deleted using Windows Explorer. Please note that the first folder can contain projects so the user must be absolutely sure if he/she wishes to delete these folders.

6.2 Uninstalling without Add/Remove Programs

Sometimes SCIA Engineer cannot be uninstalled using the "Add/Remove programs" feature of Windows. Sometimes an error message presents itself or SCIA Engineer is not added to Add/Remove Programs. In this case, it is not possible to uninstall the software.

This problem can occur with any Windows based program.

To easily uninstall Scia Engineer, use the following procedure:

Go to Start > Run and in the dialog that appears, type the following command:

```
msiexec/x {A39DB31A-4752-4611-A2F9-299324BED8EF}
```

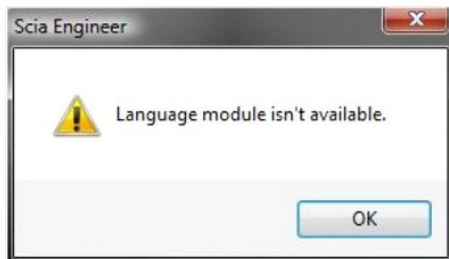
This will execute the same procedures as uninstalling through Add/Remove Programs.

7. Troubleshoot – on the client computer

A complete list of Frequent Asked Questions can be found on our website: <http://scia.net/en/support/faq>

7.1 Language module not found

When starting up SCIA Engineer the following message appears:



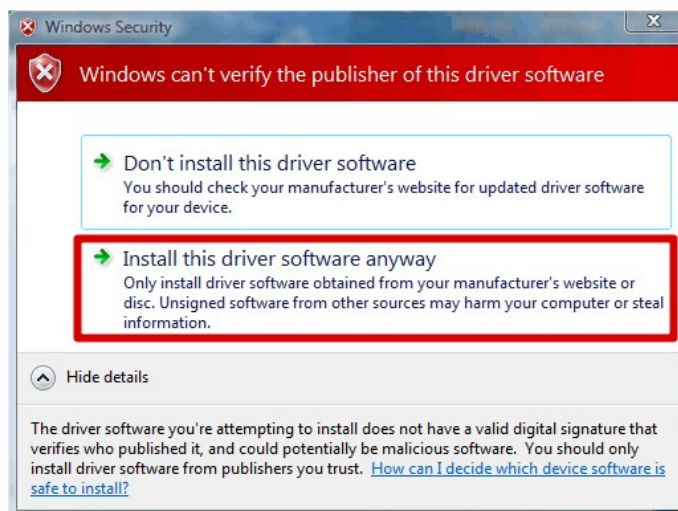
If this message appears, it means that SCIA Engineer does not find the correct language to start.

To use a certain language, you need the module for this language and the language must be installed. It is possible that you have chosen a different language during your installation then the language of your modules.

You can install an extra language in the setup for “Programs and Features” in Windows. Select the SCIA Engineer version from the list and choose for “Change”. With this option you can change the installation of the program and select an extra language which will be installed.

7.2 User Access Control

If UAC (User Access Control) is enabled the following message will appear at the end of the installation:



Choose “Install this driver software anyway” to end the installation.



For using SCIA Engineer, standard user rights suffice. Here, no Administrator rights are needed. However, the user must have read/write permission for the user folder of SCIA



Engineer: Windows 7/8/10: C:\USERS\#USER#\ESA** Where ** represents the version number and #USER# represents the user login name.

8. Troubleshoot – on the server

8.1 TCP Ports – Server setup

For servers with a windows version older than Windows 7 the ports used in FlexNET (default 27000) should be opened.

When using a Windows 7/8 server, it is necessary to add exceptions in the Windows firewall for: lmgrd.exe, scia.exe and lmadmin.exe

8.2 Impossible to activate license using Remote desktop

Remote desktop does not recognize the dongles from the remote system (in this case the FlexID dongle is not recognized). It is possible to log in on the console session of the server and then the dongle will be recognized, using the following command:

For Windows 7/8:

```
mstsc /v:servername /admin
```

More info:

```
/v:ServerName[:Port]
```

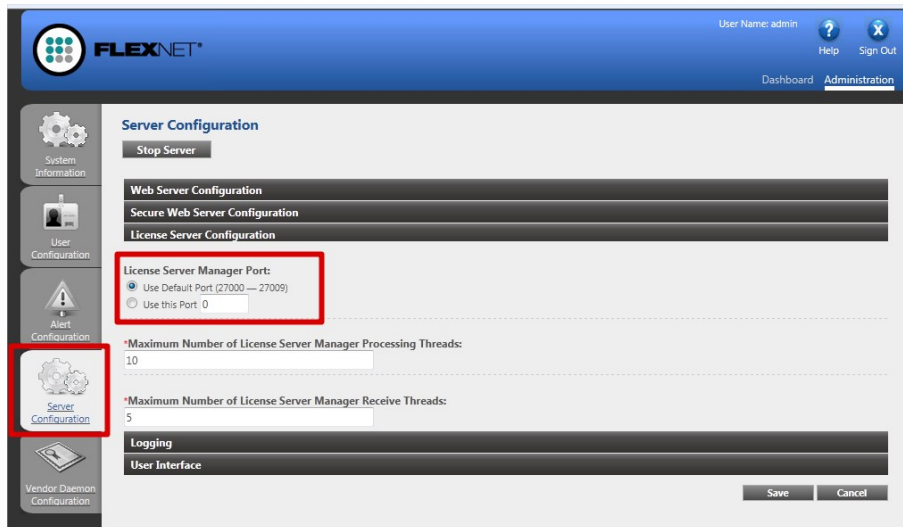
Specifies the remote computer and, optionally, the port number to which you want to connect.

If the license is installed on a virtual server with Windows 2008 R2 or newer, it is not possible to active the SCIA Engineer license with a console remote desktop session like described above. In that case an additional tool need to be used (e.g. vSphere).

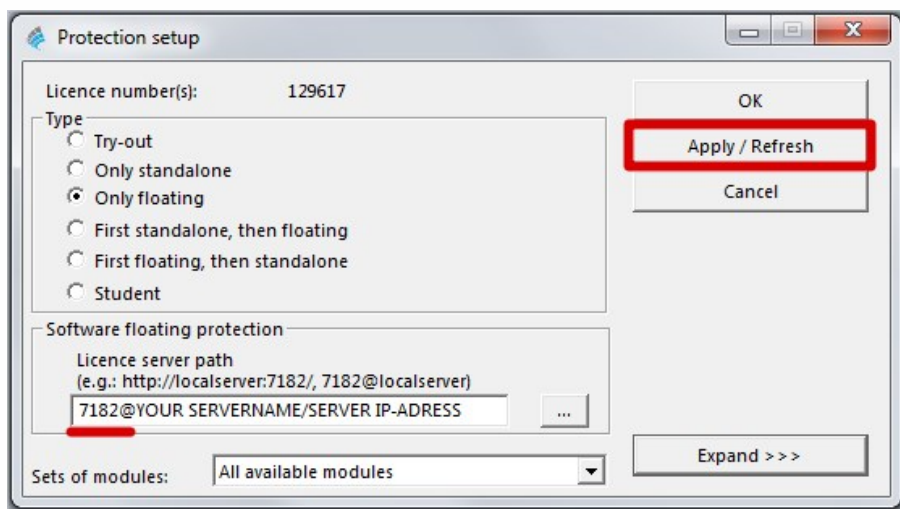
8.3 Changing the TCP Port

When the user wants to use another TCP port (e.g. 7182), it is possible to change this by using the following steps:

1. Start the internet browser and navigate to <http://serveraddress:8080> (e.g. <http://localhost:8080>)
2. Click on [Administration] and sign in (for the first login use "admin" for username and password)
3. Go to "Vendor daemon configuration" and click [Administer].
4. And go to "Server configuration > License Server Configuration > License Server Manager port". You can change the Port here:



5. Afterwards, you must restart the service lmadmin.exe or restart the server.
6. Now you'll need to configure SCIA Engineer 17 so that it can listen on the changed TCP port in order to receive the modules. Go to the protection setup (start -> All programs -> SCIA Engineer 17 -> Protection setup) on the client's PC. In the protection setup you can give in the TCP port that you've just configured on the server (e.g. 7182). Next click on apply/refresh. You should be able to see the modules when you click on expand.

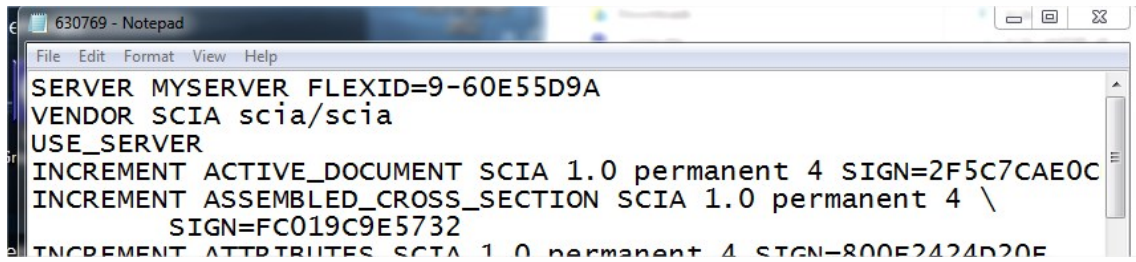


8.4 Working with versions older than SCIA Engineer 2010.0

With the "SCIA_Software.lic" file, the users can work with SCIA Engineer 2010.1 and newer. But if the users prefer to work also with older versions of SCIA Engineer or with Esa Prima Win, the old dat-file should be copied to the folder of the "SCIA_Software.lic" file, by default:

C:\Program Files (x86)\Common Files\SCIA\LicenceServer\FlexnetServer\scia

Afterwards the dat-file should be adapted and the first 2 rows should be changed into:



```

630769 - Notepad
File Edit Format View Help
SERVER MYSERVER FLEXID=9-60E55D9A
VENDOR SCIA scia/scia
USE_SERVER
INCREMENT ACTIVE_DOCUMENT SCIA 1.0 permanent 4 SIGN=2F5C7CAE0C
INCREMENT ASSEMBLED_CROSS_SECTION SCIA 1.0 permanent 4 \
SIGN=FC019C9E5732
INCREMENT ATTRIBUTES SCIA 1.0 permanent 4 SIGN=800E2424D20E
  
```

Change "MYSERVER" in the name of the server.

Don't change the FLEXID number (this depends on the number of your dongle)

Remove the port number at the end of the first row

Change the second line into: VENDOR SCIA scia/scia

And refer to this datfile in lmadmin (instead of: "scia\SCIA_Software.lic"). This can be done in the FlexNET Licence Administrator. To do this, follow the next steps:

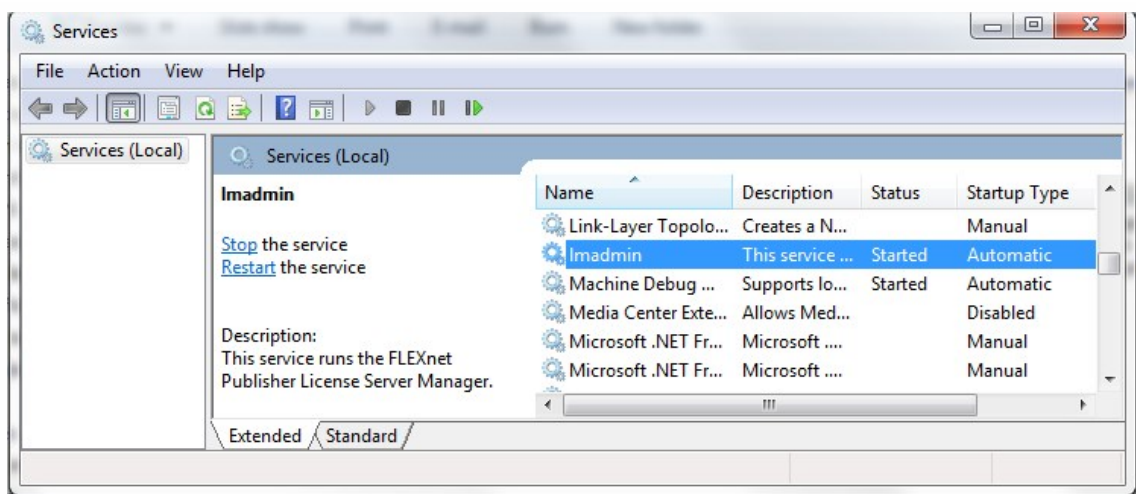
1. Start the internet browser and navigate to <http://serveraddress:8080> (e.g. <http://localhost:8080>)
2. Click on [Administration] and sign in (for the first login use "admin" for username and password)
3. Go to "Vendor daemon configuration" and click [Administer].
4. And refer here to the Licence file or Directory, not to the lic-file, but to the dat-file:



With those adaptations it is possible to work with older versions of SCIA Engineer and with the new versions as well.

8.5 Lmadmin does not start automatically

When restarting the computer, the lmadmin service should start up automatic.

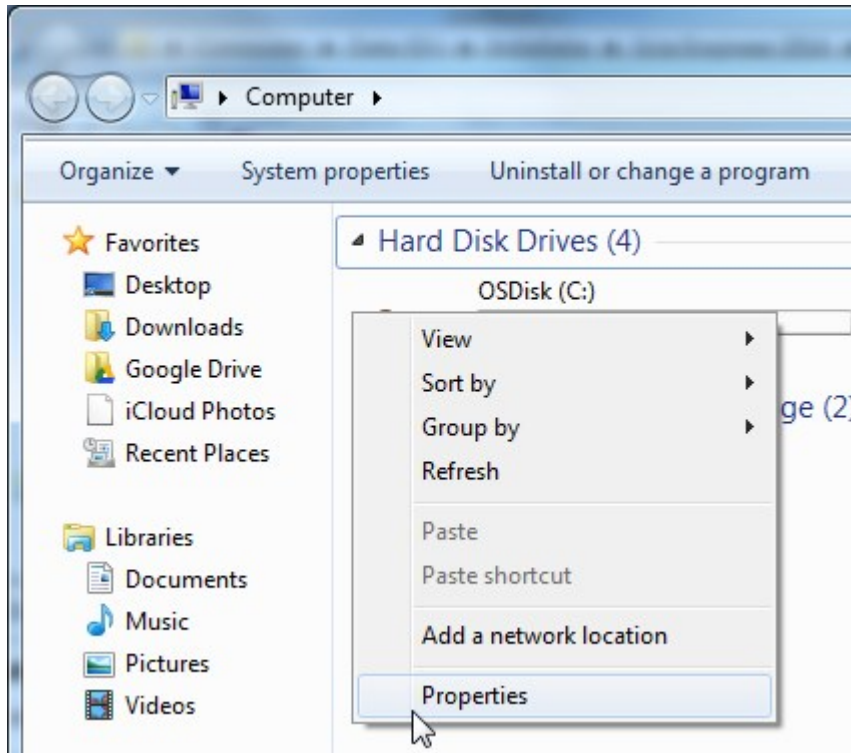


If this service does not start up automatically, please add a shortcut to `lmadmin.exe` (`C:\Program Files (x86)\Common Files\Scia\LicenceServer\FlexNetServer`) in the startup menu of Windows.

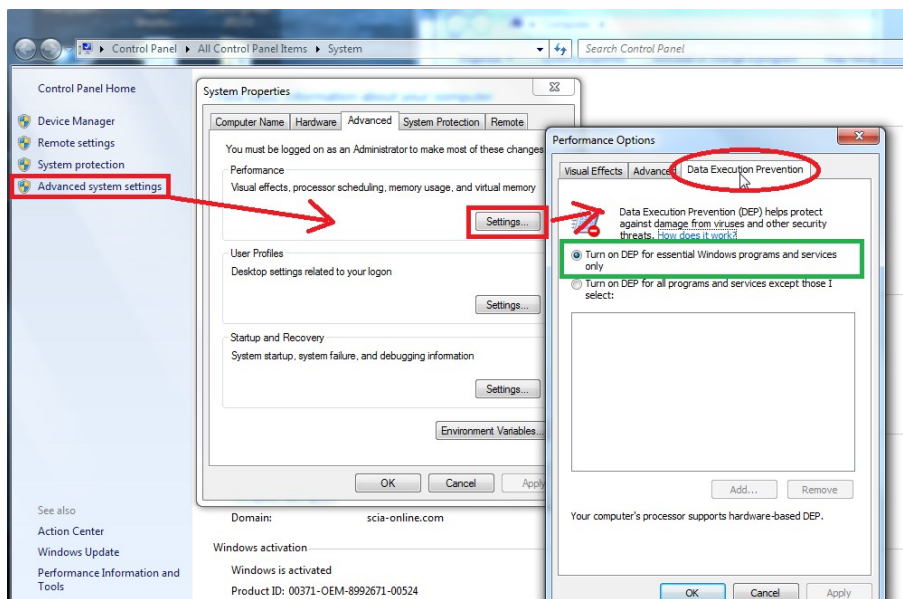
In some cases `lmadmin.exe` can be blocked due to other programs. The key in such a situation is to find what is blocking it.

One example is for some Windows Server operating systems. These operating systems sometimes have “Data Execution Prevention” activated by default for almost all programs. You can access and change it in the following manner:

Right Click on the C: drive to access the computer properties



Then you can configure data execution prevention by following the steps indicated in the next image:



8.6 Activation manager having problems with proxy settings

If you are working behind proxy settings, and the activation manager does not work after adjusting the proxy settings in the activation manager, it is possible to use a configuration file for the ActivationUtility.exe.

Usually we have a bypass of calling HTTP status 101 - continue. Some proxies do not accept it and then activation fails.

To create this configuration file, you must follow the next steps:

- a. Create a new file in notepad, and put in it the following content:

```
<configuration>
<system.net>
<settings>
  <servicePointManager           expect100Contin-
ue="false" />
</settings>
</system.net>
</configuration>
```

- b. Save the file in the folder of ActivationUtility.exe
→ C:\Program Files (x86)\Common Files\SCIA\LicenceServer\ActivationUtility
- c. Rename the file you created to:
→ ActivationUtility.exe.config (make sure that the old file extension is gone)

8.7 Configuring the firewall on server side

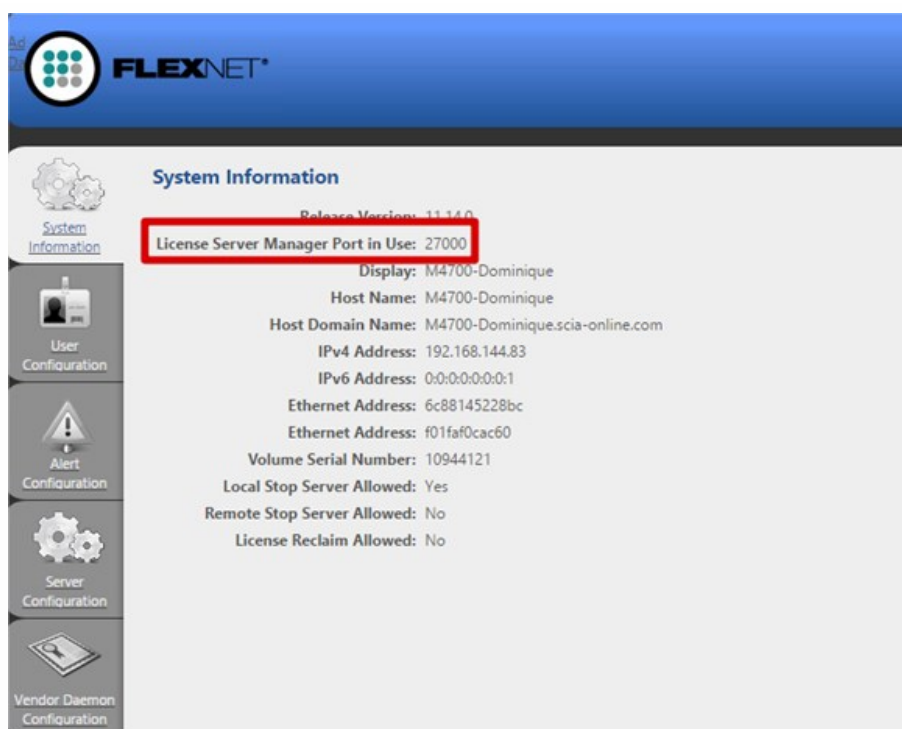
The licenses have to be exchanged between the server and the computer using SCIA Engineer. To allow this exchange, it can be possible that exceptions have to be added to the firewall on the server side.

You have to add these 4 exceptions:

1. The port used to send out licenses to the client pc (default is 27000).

You can check this port under

'FlexNET License administrator > Administration > System Information'



2. The port used to communicate with the server. This is the port used in step 1, plus 1.
So this is by default port 27001.
3. Add the process "lmadmin.exe" as exception. This process is located in the following folder:
"C:\Program Files (x86)\Common Files\SCIA\LicenceServer\FlexnetServer"
4. Add the process "SCIA.exe" as exception. This process is located in the following folder:
"C:\Program Files (x86)\Common Files\SCIA\LicenceServer\FlexnetServer\scia"