



# Server Installation Manual

## Scia Engineer 2013

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# 1. Introduction

## 1.1 Welcome

Welcome to the Scia Engineer Installation Guide. Scia Engineer is a calculation program running under Windows XP/Vista/Windows 7 with a large range of application: from the check of simple frames to the advanced design of complex projects in steel, concrete, wood...

The program treats 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 dimension plate structures, including advanced concrete calculations.

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

The text is concluded with the de-install procedure in chapter 6 and with the most common troubleshoots in chapter 7 and 8.

## 1.2 System Requirements

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

### Hardware

Processor	Pentium IV - 3Ghz (Advised: CoreDuo2 3 Ghz and higher)
RAM	2 GB (Advised: > 4 GB)
Graphics Controller	256 MB, supporting OpenGL
Disk space for installation, projects and temporary files	5GB
Minimum resolution	1280 x 800

## Software

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### Scia Engineer on Macintosh

To run the Scia Engineer software on Mac OS X virtualization software has to be used. Parallels Desktop 7 is recommended for this. When Parallels Desktop 7 is used, a Windows operating system may be installed as a virtual machine and Windows applications are used alongside Mac OS X applications. In this way, the user has 2 operating systems at the same time.

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### Standalone protection

Windows XP 32 bit  
 Windows Vista 32/64 bit  
 Windows 2003 server 32bit  
 Windows 2008 server 64 bit  
 Windows 2012 server 64 bit  
 Windows 7 32/64 bit  
 Windows 8 32/64 bit

It is advised to install the latest Service Pack for these Operating Systems.

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### Floating protection

Windows XP 32 bit  
 Windows Vista 32/64 bit  
 Windows 2003 server 32 bit  
 Windows 2008 server 64 bit  
 Windows 2012 server 64 bit  
 Windows 7 32/64 bit  
 Windows 8 32/64 bit

It is advised to install the latest Service Pack for these Operating Systems.

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### Allplan

Scia Engineer 2013 is compatible only with:

Allplan 2009.0  
 Allplan 2011.1  
 Allplan 2012.0  
 Allplan 2013.0  
 Allplan Precast 2010.0

However one should first install Allplan and then Scia Engineer, otherwise the proper installation for the Allplan patch won't be recognised.

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### Revit

Scia Engineer 2013 is compatible only with Revit 2013

The Revit link is available on [www.nemetschek-scia.com/revit](http://www.nemetschek-scia.com/revit)

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### Etabs

Scia Engineer 2013 is compatible with Etabs 9.2

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### IFC

Scia Engineer 2013 is compatible only with IFC version 2x3

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### SDNF

Scia Engineer 2013 is compatible only with Version 2.0 and Version 3.0

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### Tekla

Scia Engineer 2013 is compatible only with: Tekla version 15, 16, 17, 18 and 19.0 – 32bit

On 32bit OS as well as on a 64bit OS.

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## 2. First installation of the protection on the server

The network protection can be installed on each computer in the network. This means that it does not have to be the domain or file server. Each of the authorised modules can have a different amount 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.

For Scia Engineer a FlexNET network dongle is used for the floating protection. This also means that the protection can simply be moved from one computer to another without needing a new license file.

It is advised to install always the latest version of FlexNET. This can be found on the following site: <http://www.scia-online.com/update/scia-engineer.php>

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

- Installation of FlexID and the FlexNET network Protection
- Activation of licences
- Configuration and start of the FlexNet Server

### 2.1 Installation of FlexNET

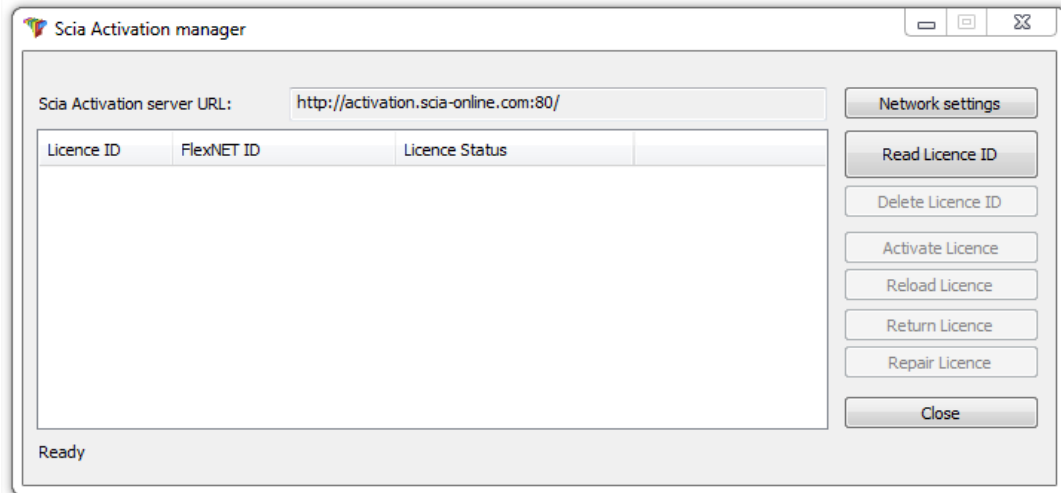
1. Download the latest SciaFlexNET from our website: [http://downloads.scia-online.com/support/SciaEngineer/setup/2013/FlexNET\\_2.1.0\\_Full.zip](http://downloads.scia-online.com/support/SciaEngineer/setup/2013/FlexNET_2.1.0_Full.zip)
2. Unzip this file and double click on **Setup.exe** to start the installation
3. Install SciaFlexNET by following the instructions on the screen.
4. By default SciaFlexNet is installed in the folder **C:\Program Files (x86)\Common Files\Scia\LicenceServer\FlexnetServer**.

### 2.2 Activation of licences

1. Attach the FlexID dongle to the server.
2. The Lock ID is stored in a .lid-file, which has been send to you by email. If you didn't receive this file, this file can be requested by sending an email to [support@scia-online.com](mailto:support@scia-online.com) with:
  - Your company name
  - Your name and return email address
  - The list of LID-number(s)



3. Execute the file **ActivationUtility.exe**



Press **[Read Licence ID]**

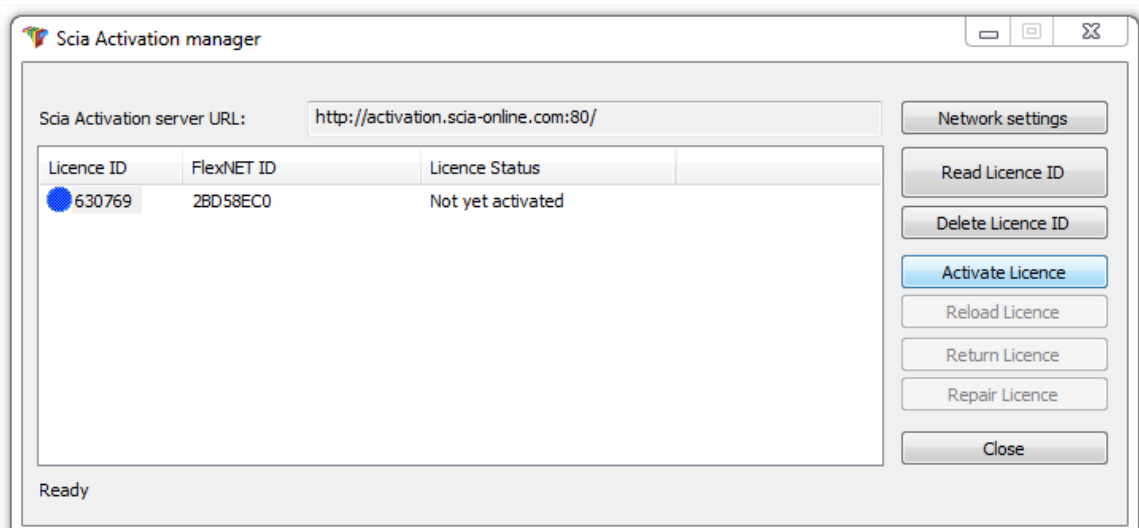
The Lock ID is stored in a SCIAx.lid-file, where x represents the number of your dongle. This number is indicated on the dongle as shown below:

Dongle	File:
	<p>SCIA630505.lid</p>

The data in this file together with the presence of the dongle itself on the server will be converted to a .lic-file. This lic-file will be used by FlexNET to start Scia Engineer.

Choose the correct lid-file and press **[Open]**

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

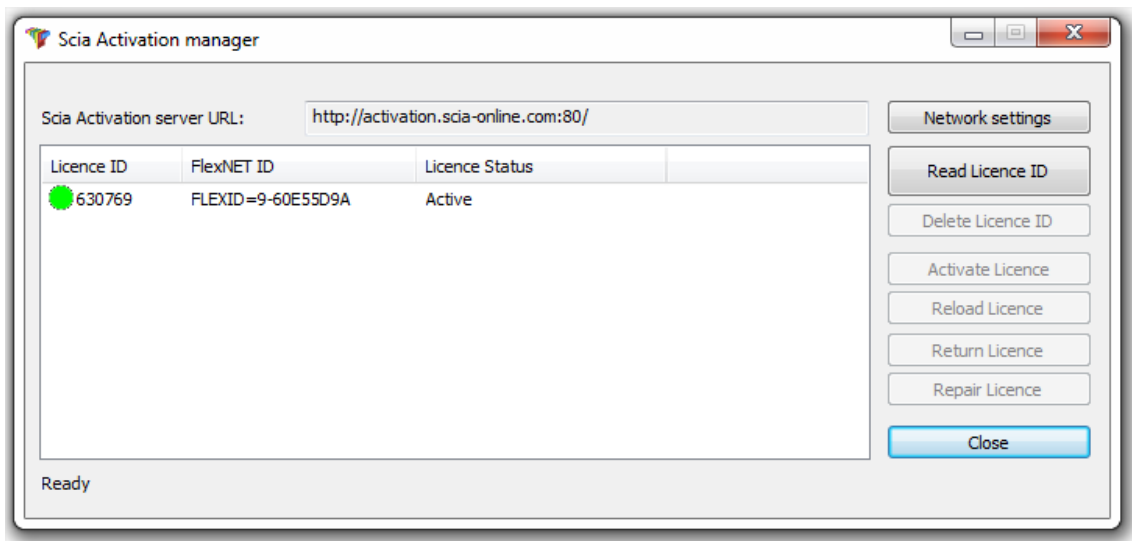


Select this number and press **[Activate licence]**

 **Attention**

**It is not possible to activate the license file using remote desktop or using proxy server.**

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

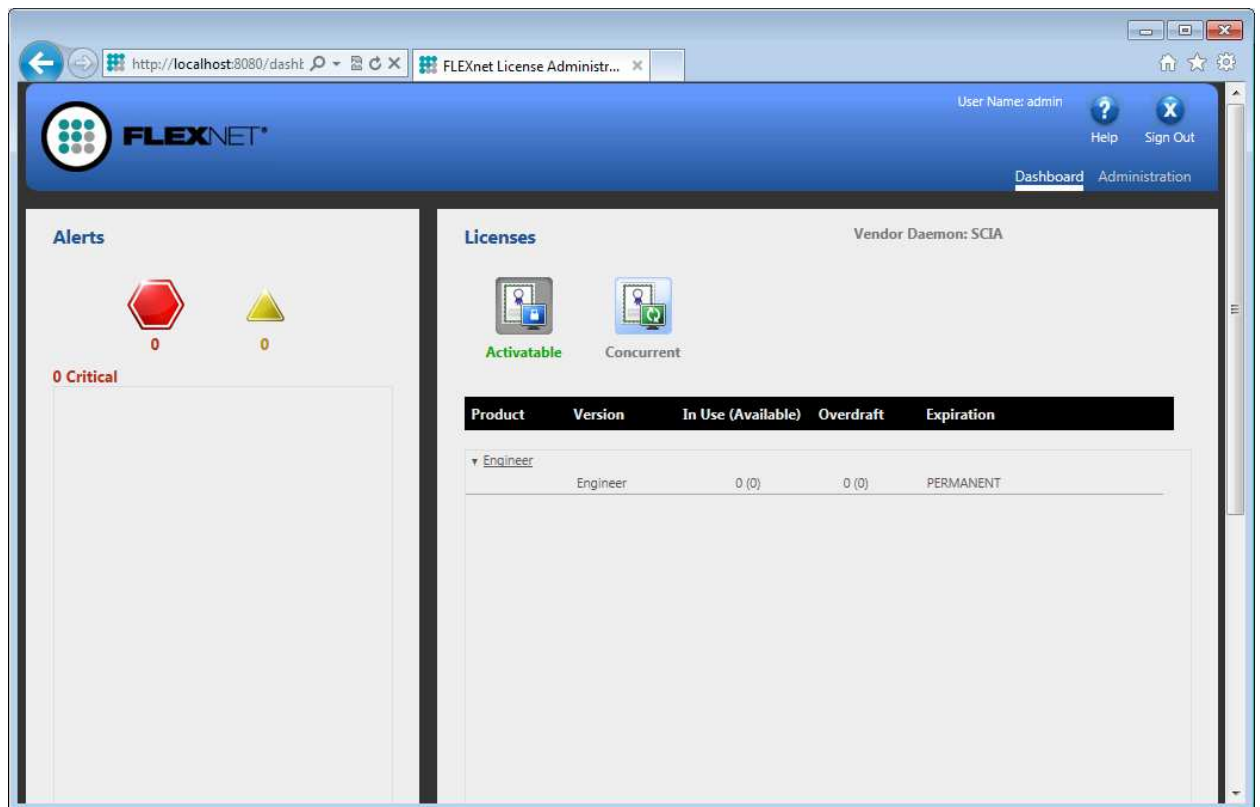


Press **[Close]**

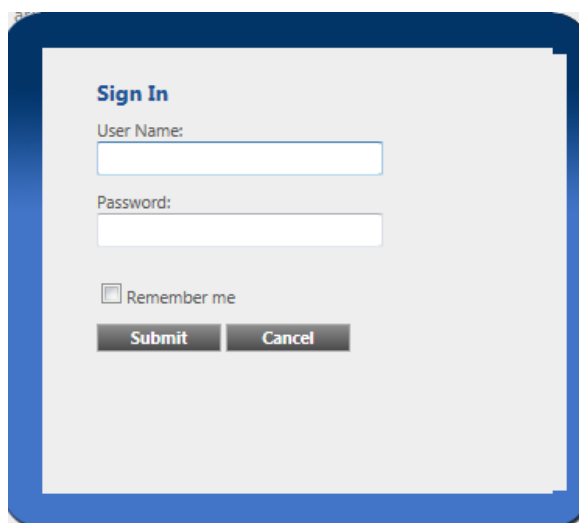
## 2.3 Configuration of the Server

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

1. Make sure ladmin.exe is running on the license server machine.
2. Start the internet browser and navigate to <http://serveraddress:8080> (e.g. <http://localhost:8080>)



3. Click on **[Administration]** and sign in (for the first login use "admin" for username and password)



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

The screenshot shows the FLEXNET Administration interface. The top navigation bar includes the FLEXNET logo, user information (User Name: admin), and links for Help and Sign Out. The main content area is titled "Vendor Daemons" and features an "Import License" button. Below this is a table with the following data:

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

The "Administer" button for the SCIA daemon is highlighted with a red box. The left sidebar contains navigation options: System Information, User Configuration, Alert Configuration, Server Configuration, and Vendor Daemon Configuration.

5. First stop the server before adapting the settings

The screenshot shows the configuration for the "Vendor Daemon: SCIA". It displays the "Vendor Daemon Port in Use: 61175". Under the "Vendor Daemon Actions" section, there are two buttons: "Stop" and "Reread License Files". The "Stop" button is highlighted with a red box.

6. In the "General configuration" section it is necessary to have correct **path to license file** (Scia\_Software.lic or \*.DAT) and correct **path for the vendor daemon** (Scia.exe).  
**Vendor daemon port** is the port which is used for communication between scia.exe and ladmin.exe. it is not used for communication between Scia Engineer and license server.  
**Restart retries** specifies whether the license server will be automatically started after restart of license server machine (also restart after sleep mode). **Put here the value 1** to enable automatic restart of license server.

The screenshot shows the 'Vendor Daemon Actions' configuration window. At the top, there is a 'Start' button. Below it is a 'General Configuration' section. The first field is '\* License File or Directory' with the value 'scia\SCIA\_Software.lic'. The second field is 'Vendor Daemon Location:' with the value 'scia/scia'. The third section is '\* Vendor Daemon Port:' with two radio buttons: 'Use default port' (selected) and 'Use this port' followed by a text box containing '0'. The fourth section is '\* Restart Retries:' with a text box containing '1'. At the bottom, there is a checkbox for 'Enable Date-based Versions' which is unchecked.

7. 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' configuration window. It has a checkbox for 'Overwrite Vendor Daemon Log' which is unchecked. Below it is the 'Vendor Daemon Log Location:' field with the value 'logs/SCIA.log'. At the bottom, there is a link that says 'View file externally'.

8. Changes in configuration must be saved:

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

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

**Vendor Daemon:SCIA**

Successfully updated the vendor daemon configuration.

**Vendor Daemon Actions**

**Start**

- Running daemon can be stopped using "Stop" button. Or it is possible to reread the license file.

**Vendor Daemon:SCIA**

Vendor Daemon Port in Use: 61175

**Vendor Daemon Actions**

**Stop**    **Reread License Files**

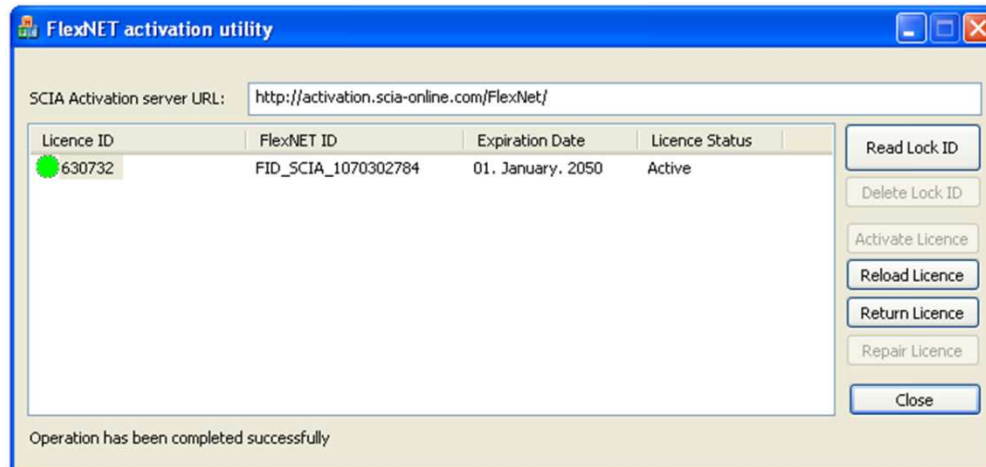
**Note**

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 Manger port":

The screenshot shows the FLEXNET Administration interface. At the top, the user is logged in as 'admin'. The main content area is titled 'Server Configuration' and includes a 'Stop Server' button. Below this are sections for 'Web Server Configuration', 'Secure Web Server Configuration', and 'License Server Configuration'. The 'License Server Manager Port' section is highlighted with a red box and contains two radio button options: 'Use Default Port (27000 — 27009)' (which is selected) and 'Use this Port: 0'. Below this are input fields for 'Maximum Number of License Server Manager Processing Threads' (set to 10) and 'Maximum Number of License Server Manager Receive Threads' (set to 5). The 'Logging' and 'User Interface' sections are also visible. In the left sidebar, the 'Server Configuration' menu item is highlighted with a red box. At the bottom right, there are 'Save' and 'Cancel' buttons.

### 3. Update of the server for a new version

1. Execute the **FlexNET Activation Utility**. This can be found by default in:  
"C:\Program Files\SCIA\FlexNET\ActivationUtility\ActivationUtility.exe"



2. Select your license number and press **[Reload Licence]**

#### Attention

**It is not possible to activate the license file using remote desktop or using proxy server.**

3. The licence file will be reloaded and up-to-date. Click **[Close]**

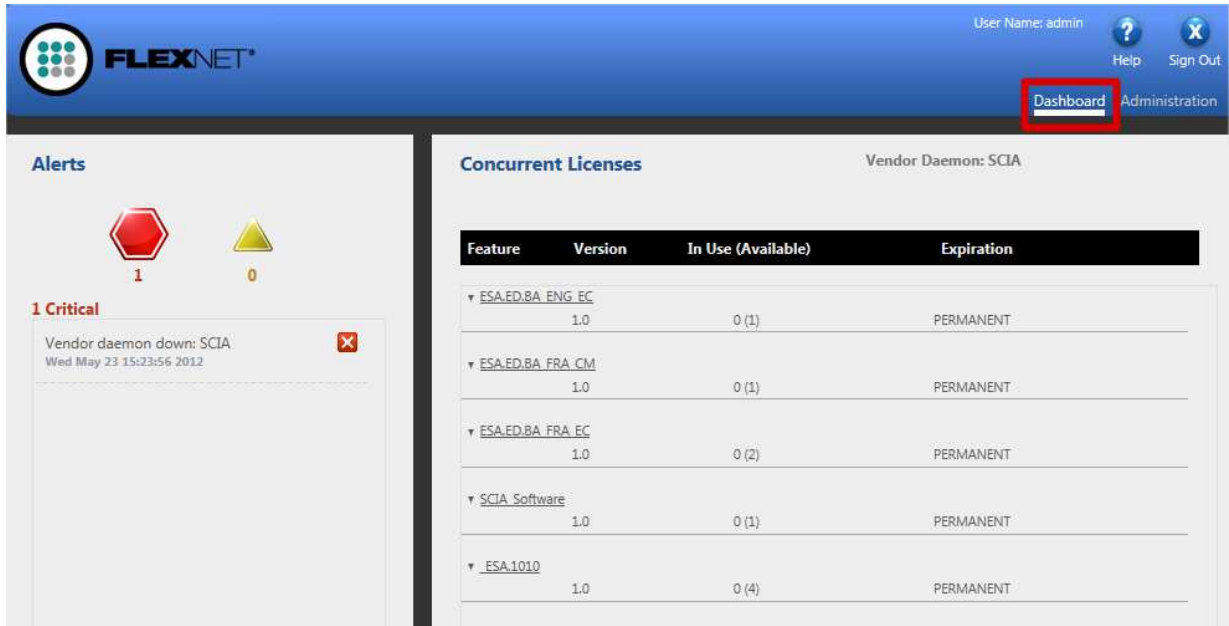
#### Note

**If you are still working with LMTools and not yet with LMAdmin, you have to go in LMTools to the tab "Start/Stop/ReRead" and click here on "Reread licence file" to activate this new licence.**

## 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.



The screenshot displays the FLEXNET web interface. The top navigation bar includes the FLEXNET logo, the user name 'admin', and links for 'Help' and 'Sign Out'. The 'Dashboard' link is highlighted with a red box. The main content area is split into two panels. The left panel, titled 'Alerts', shows a red hexagon icon with the number '1' and a yellow triangle icon with the number '0'. Below this, a critical alert is displayed: 'Vendor daemon down: SCIA' with a timestamp of 'Wed May 23 15:23:56 2012'. The right panel, titled 'Concurrent Licenses', shows a table with the following data:

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

Deactivating of 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 this license on the new server. You can deactivate the license following the next 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]**



## 5. Installation of Scia Engineer on the client pc's

### 5.1 Installation of Scia Engineer

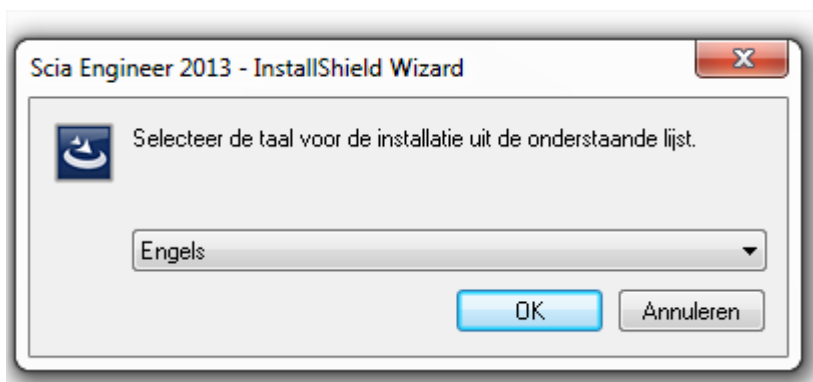
1. You can start the installation using the web setup from our site:

Go to our download page:

**<http://update.nemetschek-scia.com/>**

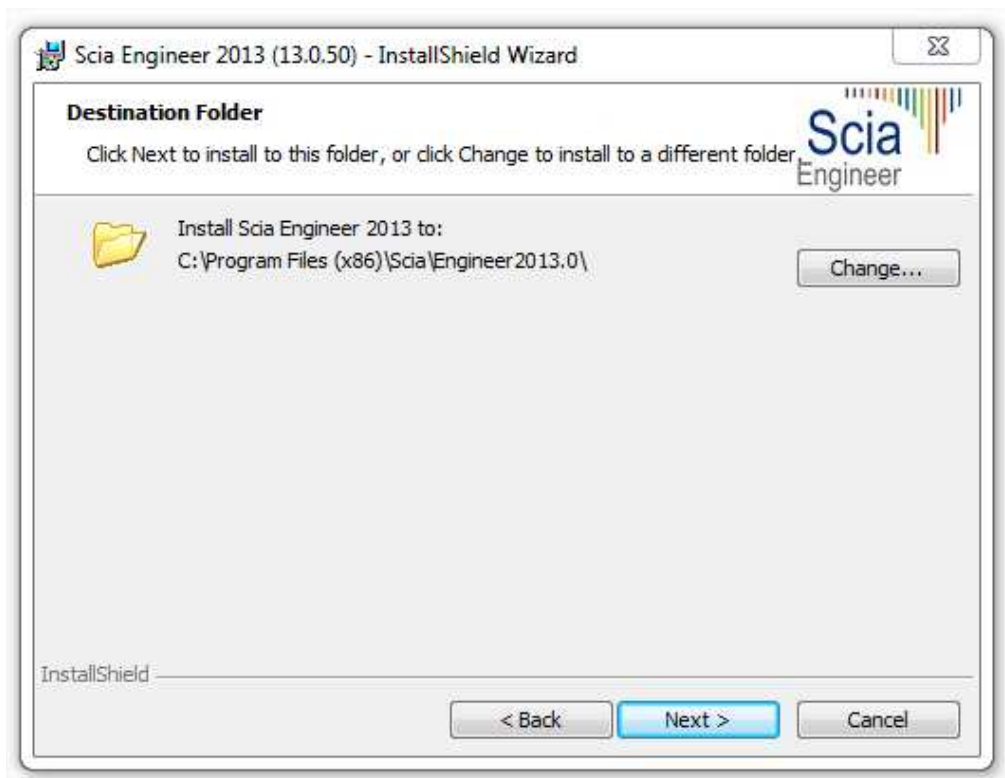
And run the web setup.

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.

#### Note

When choosing a “Typical installation”, NOT all language modules will be installed, only the English language and the language chosen for installation. If you wish to install other languages, it is needed to choose a Custom install where multiple languages can be selected.

To be able to choose another language for the environment of Scia Engineer two requirements need to be met:

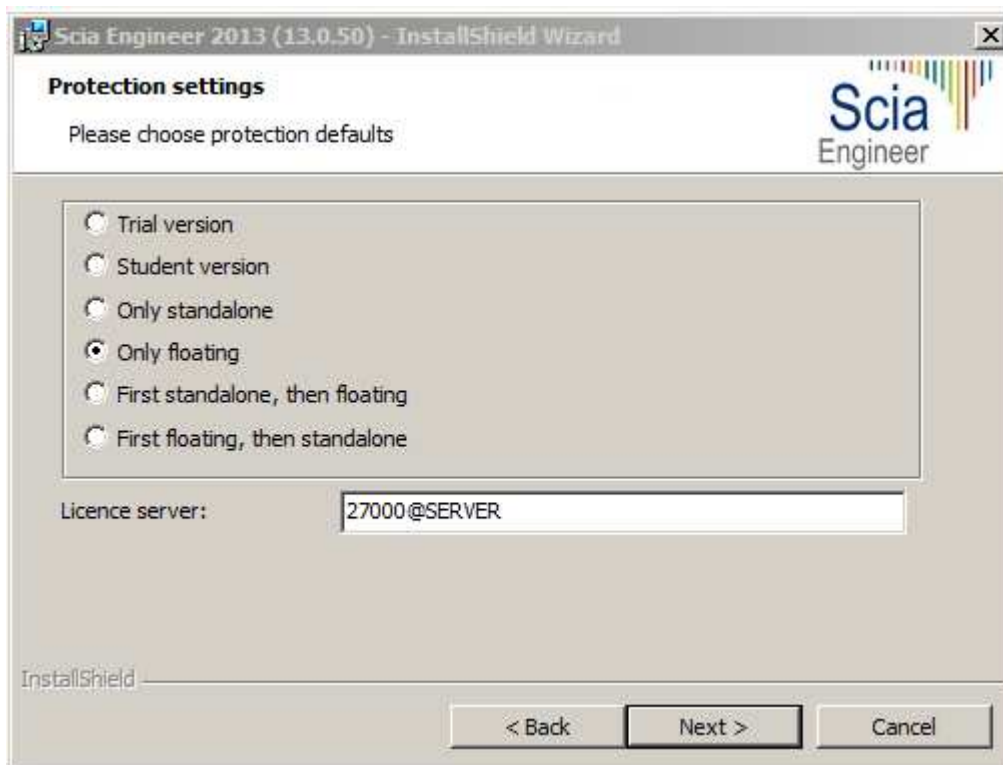
The preferred language needs to be installed

The necessary language module needs to be active in the dongle or on the server

If you want to install one of the Scia Engineer Plug-ins, then you need to select the plug-in in the Custom installation.

The following plug-ins are available: Tekla Structures plug-in, Revit Structure plug-in, CADS RC Link Designer, BS2000, Pipeline Wizard, Composite Beam, Composite Column, Arcelor Mittal-Cellular beams.

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



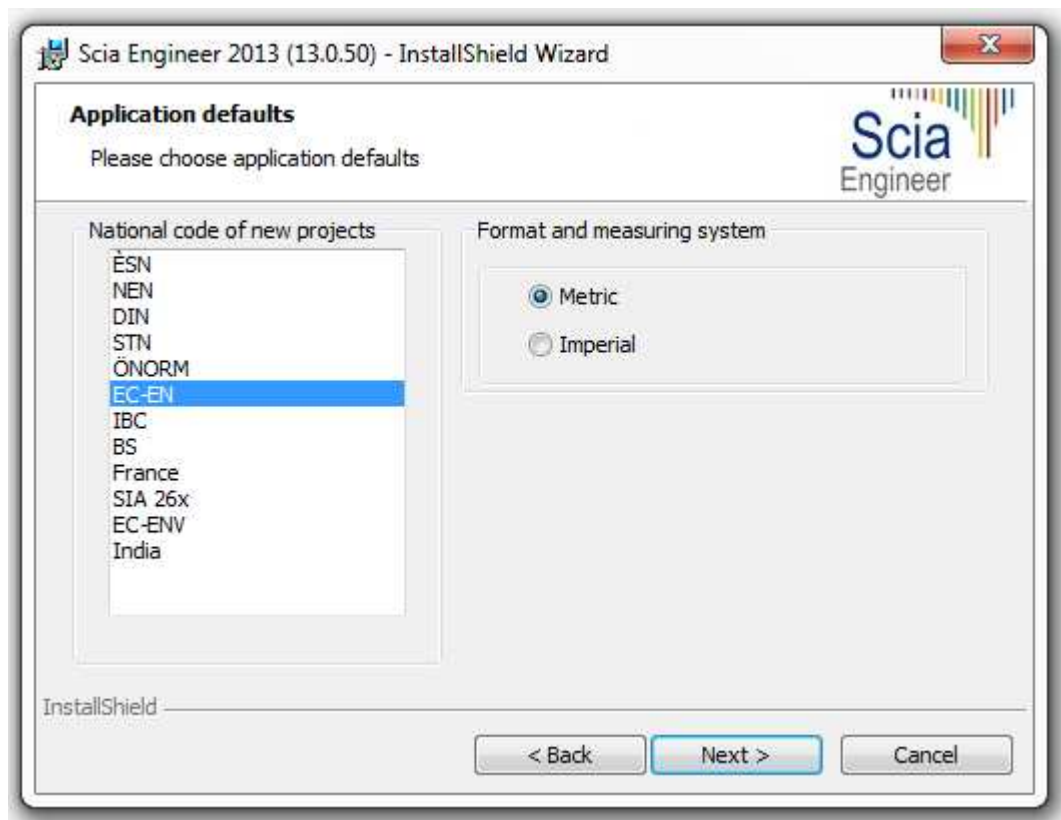
- Activate **Only floating**.
- Fill in the correct path to the **License server**:
  - E.g. 27000@Server
  - The number **27000** refers to the TCP-port. Default this port is 27000, but it can be adapted in the license file (see chapter 4.2.4).
  - **Server** should be replaced by the name of the license server.

Press **[Next]** to continue.

#### Note

When using a dongle and a FlexNET network license, then 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.



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

9. The last window shows an overview of the selected settings. Press **[Install]** to start the installation process.
  
10. After installation, the message appears that Scia Engineer has been installed successfully. Press **[Finish]** to end the installation procedure.

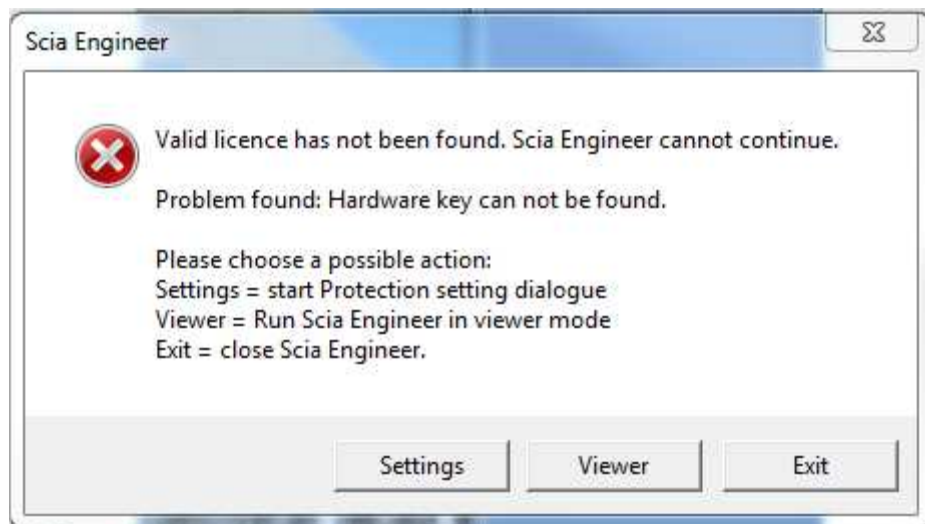
## 5.2 Start Scia Engineer

Double click on the **Scia Engineer 2013.0** symbol to start the program.



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

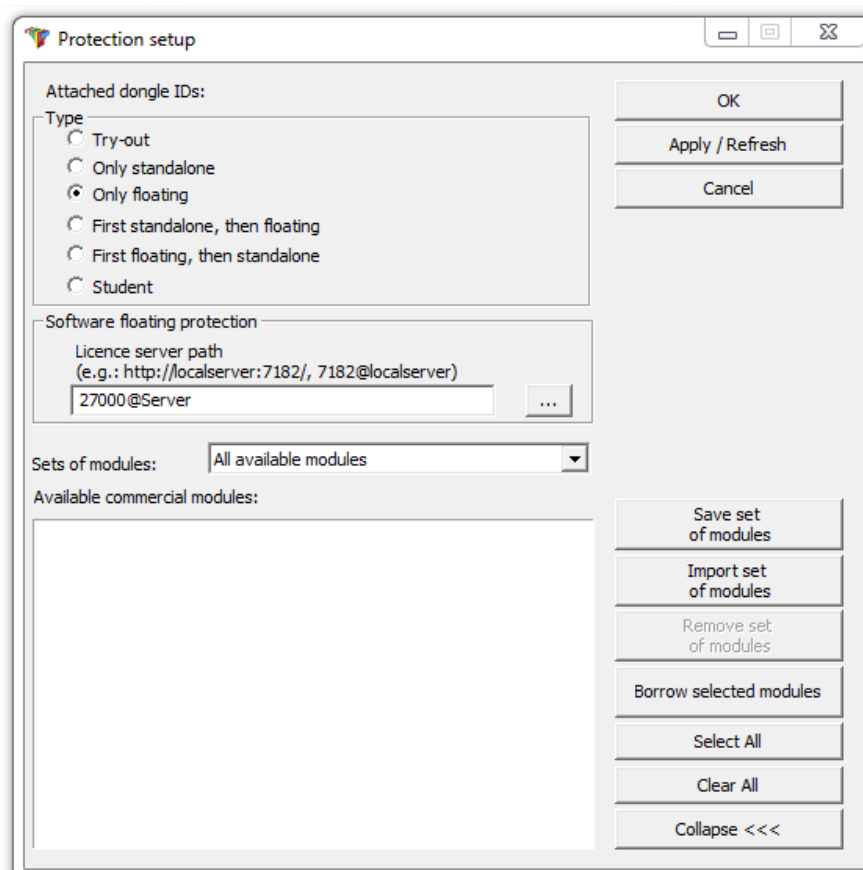
If Scia Engineer does not start immediately, the following screen will appear and follow the steps below to update the protection:



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

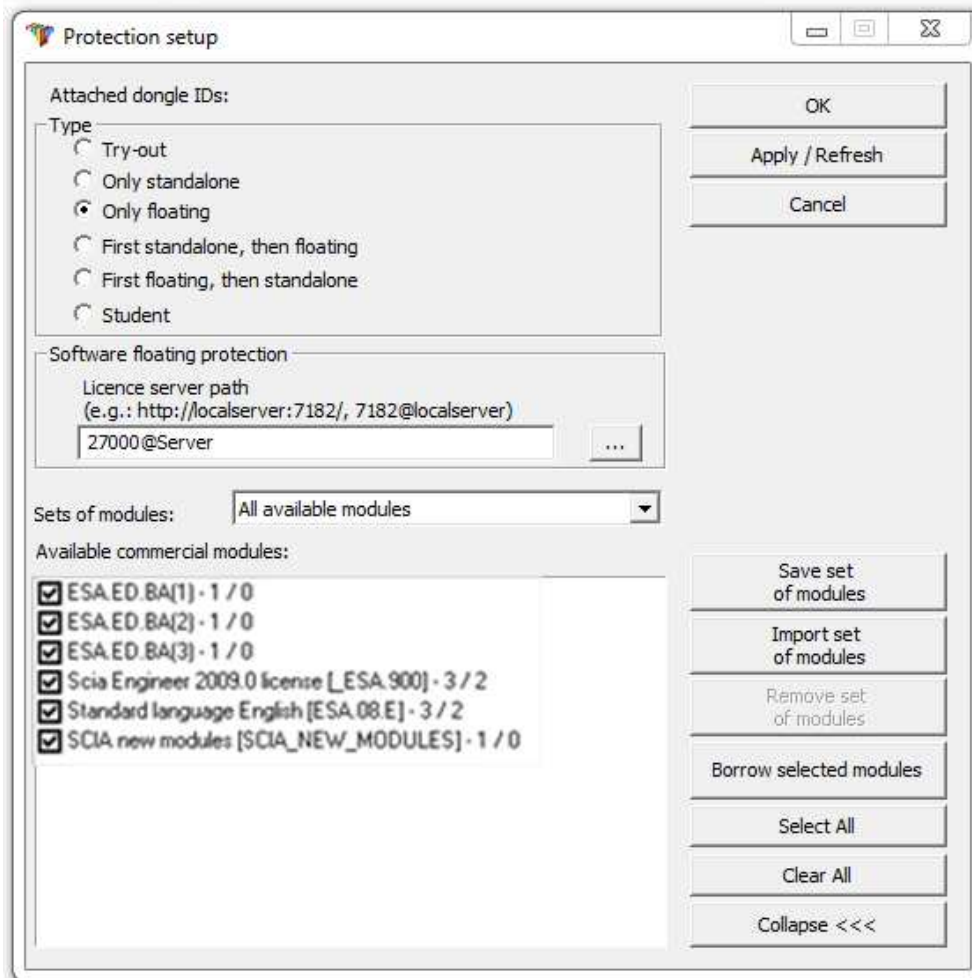
Activate the option **Only floating** and fill in the correct path to the **License server**:

- E.g. 27000@SERVER
- The number **27000** refers to the TCP-port. Default this port is 27000, but it can be adapted in the license file (see chapter 2.3.[10]).
- **SERVER** should be replaced by the name of the license server.



Press **[Apply / Refresh]**

- The available commercial modules will appear in the window:



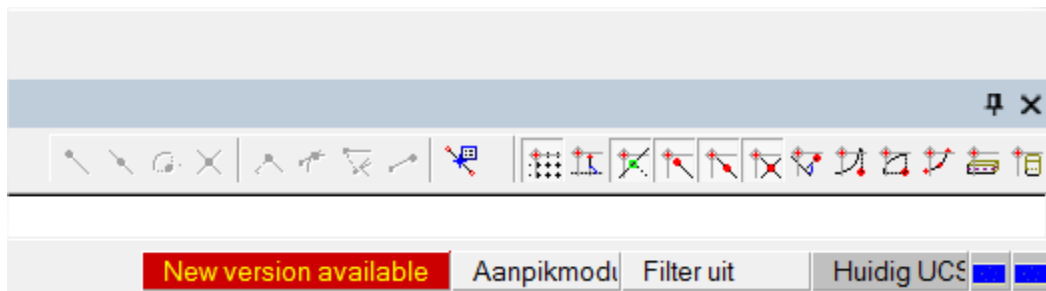
- Press **[OK]** to close the protection Setup
- Double click on the **Scia Engineer 2013.0** symbol to start the program.



- When the protection update succeeded Scia Engineer will start up and the installation is finished.

## 5.3 Update

When an update is available, you can see a notification at the right bottom corner in Scia Engineer itself:



And when you click on **New version available** you can choose for “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 possible to disable this option in the registry on the client's computer:

```
HKEY_CURRENT_USER\Software\SCIA\Esa\10.1\Admin\Settings\EnableUpdateMenu  
= 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.

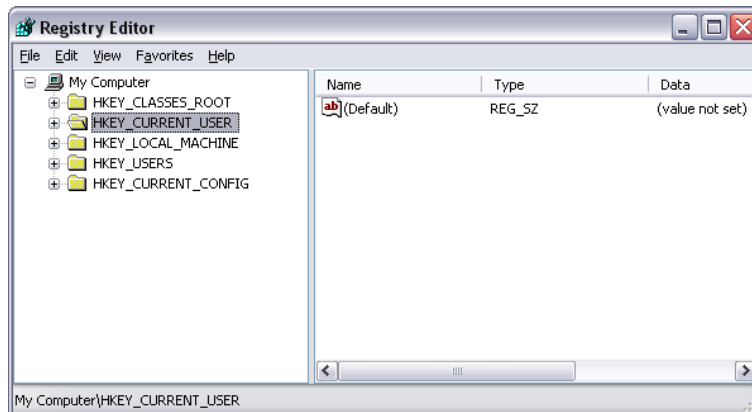
After completing the uninstalling, some settings remain in the Registry of windows. These traces can be deleted manually. Deleting these entries can be necessary when problems occur with a new installation.

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 at least Power-User 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 uninstalling, some folders remain on your hard disk and can be deleted manually:

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

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

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

**Windows XP:** C:\Documents and Settings\#USER#\ESA\*\*

C:\Documents and Settings\#USER#\My Documents\ESA\*\*

**Windows Vista and Windows 7:** C:\Users\#User#\Esa\*\*

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

Where \*\* represents the version number

#### Attention

**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 “Add/Remove programs” of Windows. Sometimes this give an error message or Scia Engineer is not added to Add/Remove Programs. This way, it is not possible to uninstall the software.

This problem can occur with every Windows based program.

To easily uninstall Scia Engineer, use the following procedure:

Go to ‘Start’ -> ‘Run’

In the dialog that appears, type the following command:

```
msiexec /x {8BF90233-A9C2-41D1-BEEA-A391BE0F15FD}
```

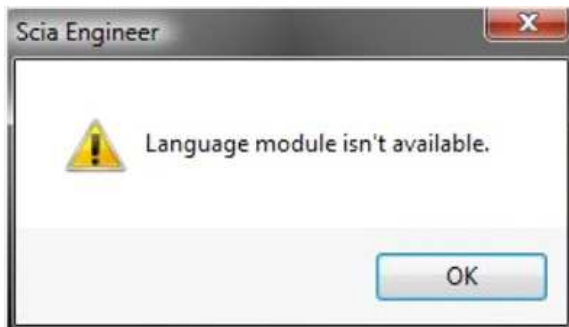
This will execute the same procedures as uninstalling through Add/Remove Programs.

## 7. Troubleshoot – on the client computer

A complete list of Frequent Asked Questions can be found on our website:  
<http://nemetschek-scia.com/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 up.

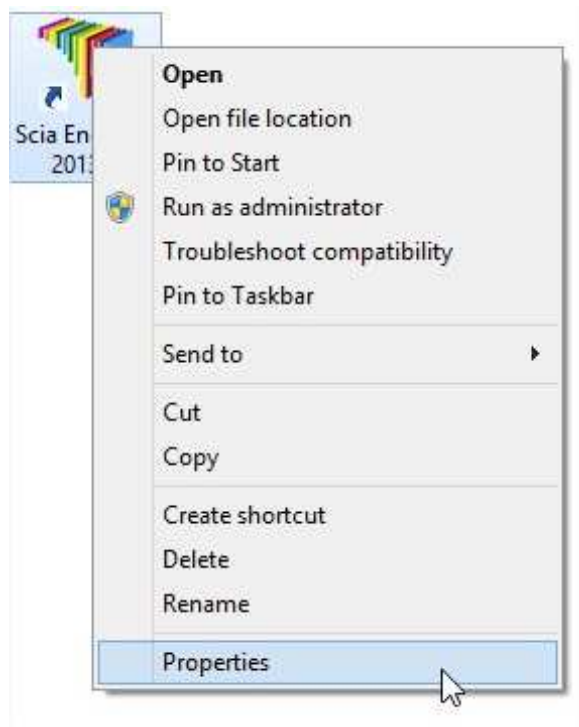
To use a certain language, you need the module for this language and you have to install this language. Probably you have chosen a different language during your installation than the language of your modules.

You can install an extra language in the setup for “Programs and Features” in Windows. Select Scia Engineer 2013 here and choose for “Change”. With this option you can change the installation of the program and select an extra language which will be installed.

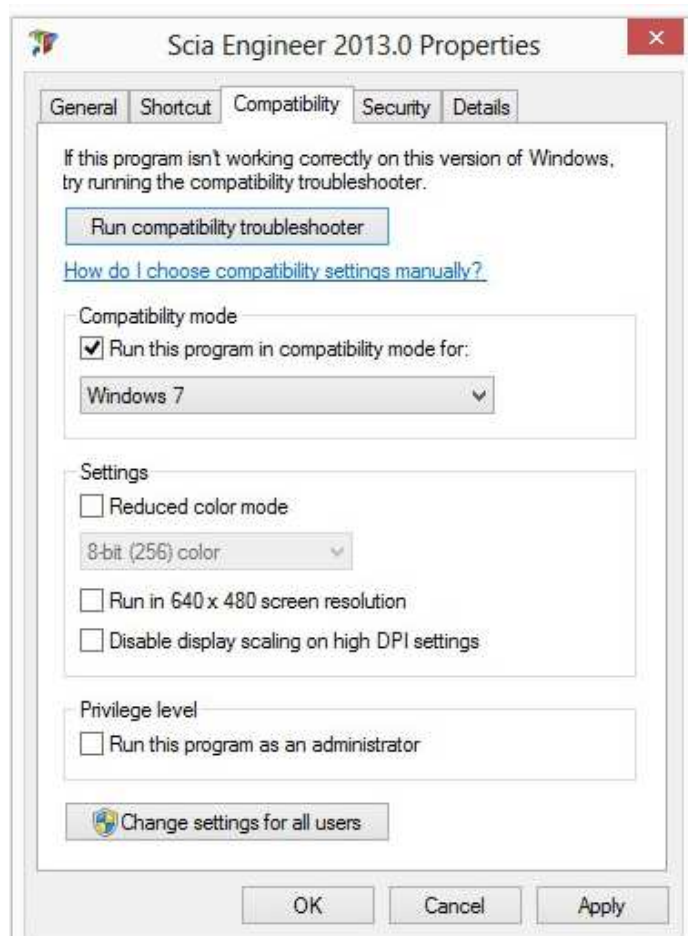
### 7.2 Scia Engineer 2013 on Windows 8

If Scia Engineer 2013 does not start correctly on Windows 8, you can try to run it in compatibility mode on Windows 7 as follows:

1. Right click on the Scia Engineer 2013 icon and choose for **Properties**

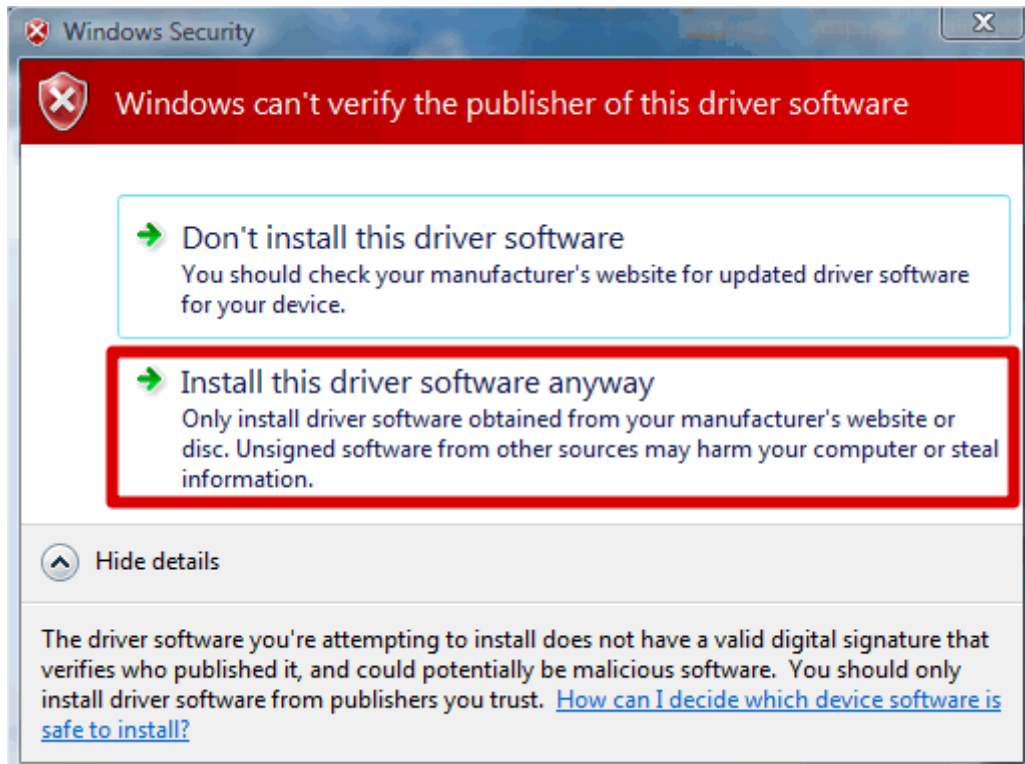


2. Go here to the tab “Compatibility”
3. And activate the option “Run this program in compatibility mode for:” and choose for “Windows 7” just below it:



### 7.3 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.

#### Note

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 XP: C:\Documents and Settings\#USER#\ESA\*\*

Windows Vista, Windows 7: 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 windows7** the used ports in FlexNET (default 27000) should be opened.

When using a **Windows7** server, it is necessary to add exceptions in the Windows firewall for: `lmgrd.exe`, `scia.exe` and `lmadmin.exe`

### 8.2 Impossible to activate licence 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 XP SP3 or higher, Windows Vista SP1 or higher, Windows Server 2008 and Windows 7:

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

For all older versions of Windows:

**`mstsc /v:servername /console`**

More info:

`/v:ServerName[:Port]`

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

`/console` or `/admin`

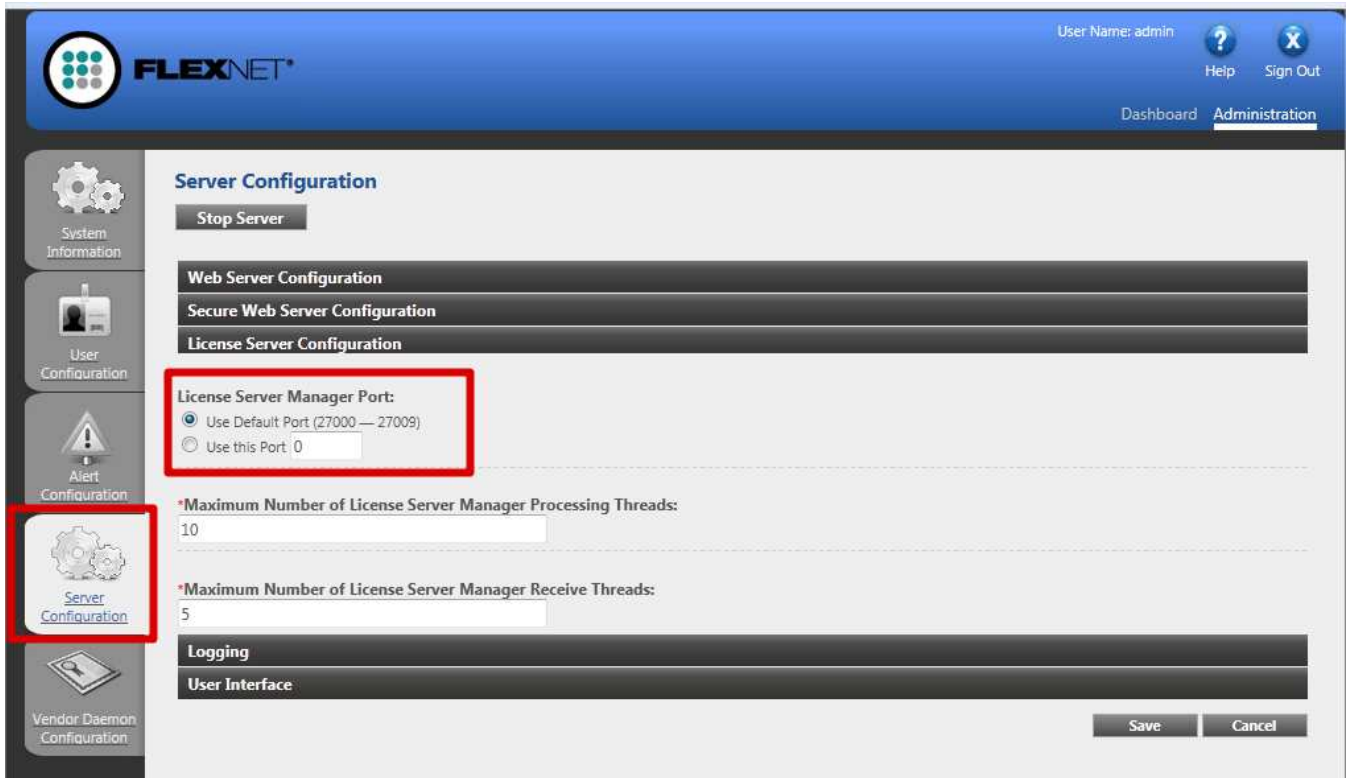
Connects to the console session of the specified Windows Server 2003 family operating system.

### 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 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:



## 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 datfile 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.

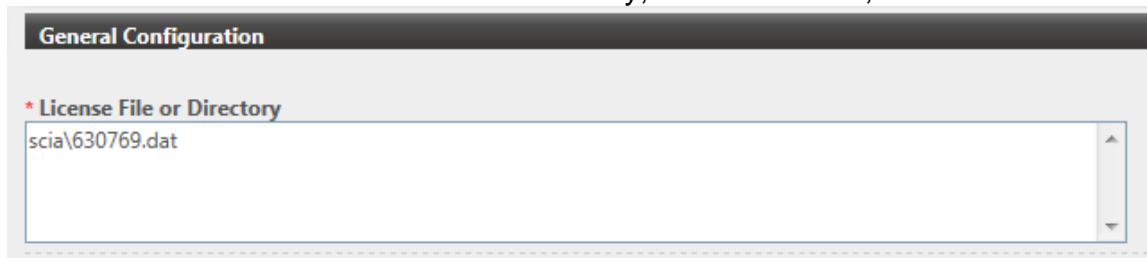
Don’t change the FLEXID number (this depends on the number of your dongle)

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 Imadmin (instead of: "scia\SCIA\_Software.lic"). This can be done in the FlexNET Licence Administrator. To do this, follow the next steps:

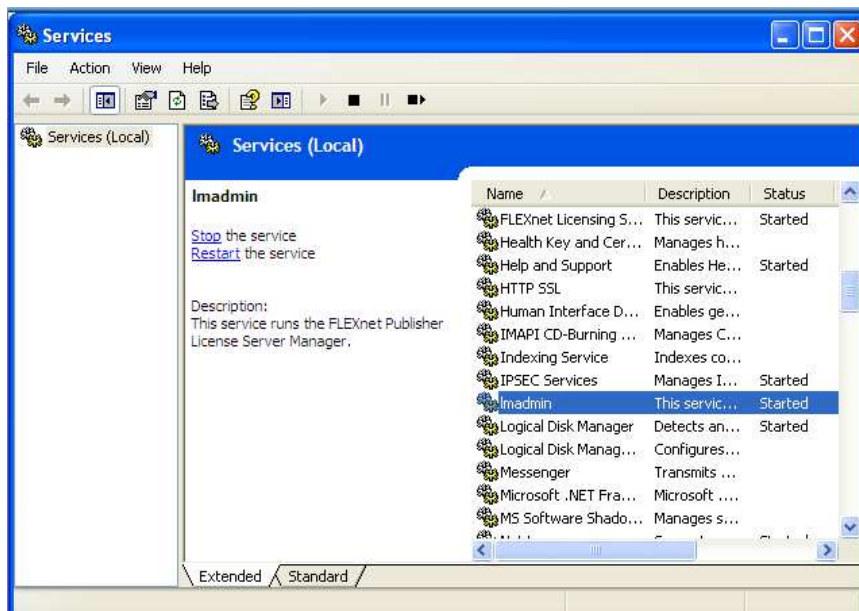
1. Start the internet browser and navigate to `http://serveraddress:8080` (e.g. `http://localhost:8080`)
2. Click on [Administration] and sign in (for the first login use "admin" for username and password)
3. Go to "Vendor daemon configuration" and click [Administer].
4. And refer here to the Licence 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 also.

## 8.5 Lmadmin does not start automatically

When restarting the server, the Imadmin service should start up automatic.



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