

# Installation of Security System

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# Information

## Installation of Security System

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# 1 General

This manual describes the installation of the security system itself, i.e. not the installation of any calculation programs.

The following is needed for an installation of the security system:

- A **CD** with the installation program (or installation files downloaded from StruSoft download pages the Internet).
- A **Floppy disk**, labelled *Lockfile*, *Hardware lock*, containing a lockfile (**SKASOFT.LOC**). The lockfile can also be e-mailed or downloaded via **WebUpdate** (see chapter 3.1.6.2).
- A **Hardware lock**, to be attached to the parallel port or the USB-port of the computer.

Chapter 2 concerns the general approach for installing the security system. After that the installation of the security system will be described more in details. Chapter 3 concerns network installation and chapter 4 concerns local installation. A **Network installation** must be done by those users who have purchased a network license, and this kind of installation means that the user first installs the security system on a server, **Server installation**, and then connects the other computers to that server, **Client installation**. A **Local installation** means a single-user system where all the installations are done locally on the specific computer.

The manual deals with three kinds of installations:

- **New installation**, this is done the first time the security system is installed.
- **License update**, an update of the security system means an update of the lockfile. This must be done if new licenses have been either purchased or made available from the **Maintenance Agreement**. The update can be done with a floppy disk, an e-mail or via **WebUpdate** on the Internet (which is the easiest way to do it).
- **Re-installation**, this is done if you want to re-install the whole security system.

Chapter 5 contains general information on how the security system works and how it is installed. The 6th, and final, chapter concerns some common problems and how they can be solved.

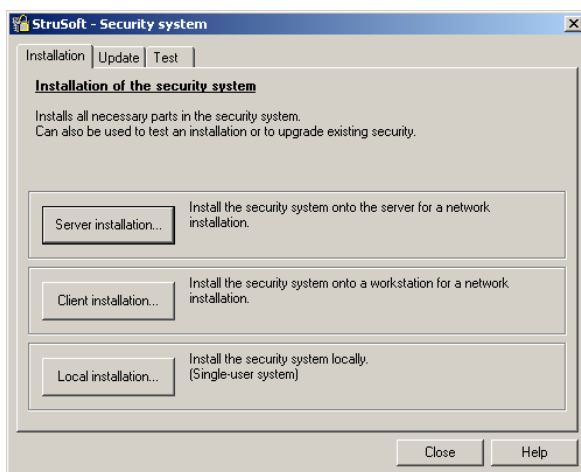
## 2 Installation

Use the installation program on the CD when performing any kind of installation (the user can also download the installation program from StruSoft's homepage). The general approach for the installation is described below, and other kinds of installations will be described more detailed in the following chapters.

### 2.1 Installation from the CD

- **Parallel port locks:** Begin with attaching the hardware lock to the parallel port on the computer where the lockfile is to be installed. For a local installation this means that the hardware lock has to be attached to the computer where the user installs the security system (that is the computer which the programs later will be run from). When performing a network installation the hardware lock has to be attached to the server, i.e. the computer on which the **License Server program** has been installed.
- **USB-lock:** Do not attach the lock to the USB-port until the drivers have been installed.
- The user then starts the installation program.
- If the system, contrary to all expectation, cannot handle auto start the user will have to start the installation program manually. Use e.g. the Explorer and run the **START.EXE** file from the CD-unit.
- Choose country in the appearing dialog box.
- Press the **Security System** button under **Choose program package...** when the installation program has started.
- The user can choose either **Security System** or **Help security system** from **Menu**.
- A license agreement is shown and the user will then move on to the security system program itself. There are three tabs in this dialog box: **Installation**, **Update** and **Test**.
- The user chooses what kind of installation he/she wants to perform from the **Installation**-tab. Then an installation program that guides

the user through the installation starts. The user moves on to the next step by pressing the **Next** button. If it is not possible to move on to the next step, or if the user wants to install current components, then he/she has to perform an installation for that step by clicking on the **Install** button. The installation program cannot move on if something is wrong. An error message that tells the user what is wrong appears instead. If the installation program proceeds it means that everything is okay so far. On the right side of the window some useful information is always visible. The user must go through every step until reaching the last one (**End**).



*Image 1. Dialog box for Security system, Installation.*

- It is possible to update the security system by updating the lockfile from the **Update**-tab. The user must perform the update procedure in order to be able to use new, as well as updated, programs.

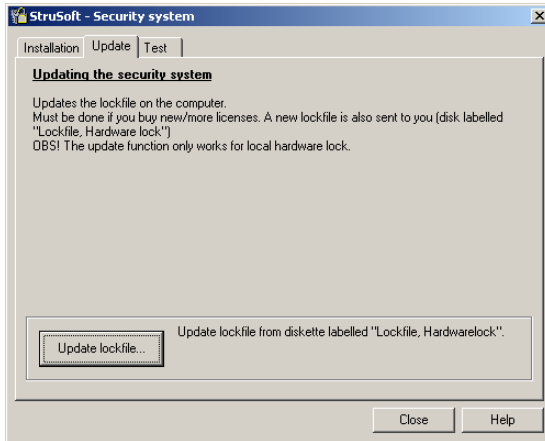


Image 2. Dialog box for Security system, Update.

- The user can test the installed security system from the **Test**-tab. There are two different test programs that can be run if the system does not work as it is supposed to do. One of the programs is used for a network installation and the other program is used for a single-user system. It is a good idea to begin here if the system for some reason does not work.

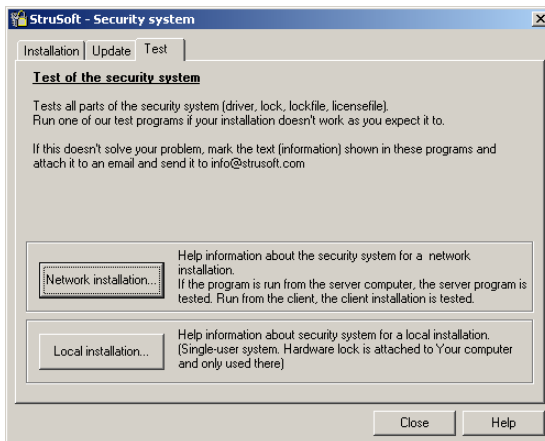


Image 3. Dialog box for Security system, Test.

## 2.2 Installation from a downloaded file

Start the installation program and follow the instructions for installing StruSoft License Server.

## 2.3 Word list

- **Lockfile, SKASOFT.LOC.** This must be located on the computer where the hardware lock is attached. There is a lockfile to every hardware lock. The lockfile can be: found on a floppy disk labelled **Lockfile, Hardware Lock**, e-mailed or downloaded via **WebUpdate** if the floppy disk is not enclosed.
- **Hardware lock.** This lock must be attached to the parallel port /USB-port (**Note!** The drivers have to be installed first when having a USB-lock) of the computer. For a network installation it must be attached to the parallel port of the server which means that the clients do not need to have neither a hardware lock nor do they have to install a lockfile.
- **Driver to hardware lock.** This must be installed in order for the computer to find the hardware lock. The driver must be installed to the computer where the hardware lock is going to be placed.
- **License server program.** See chapter 3 **Network installation**.
- **SKASOFT.INI.** This file is created at the installation and is located in the Windows folder on the clients. It is this file that contains the path to the licensefile on the server.

# 3 Network installation

## 3.1 General information about the Security System

The network installation consists of two parts: the installation on the server as well as a configuration on the clients. The hardware lock must be attached to the server on which the **lock**, the **lock file** and the **License Server** program must also be installed. The only thing the user has to configure on the clients is the path, i.e. the **computer name** and **port**, which is done automatically during a client installation. Read more in chapter 3.6 **Configuration of the StruSoft License Server** service.

### System requirements:

- **Server and client**
  - Windows 98\*
  - Windows ME\*
  - Windows NT (service pack 6)\*
  - Windows 2000
  - Windows XP
  - Windows 2003 server
- **Network**
  - TCP/IP and DNS name resolution

\* are working but are **NOT** supported by StruSoft.

### 3.1.1 Symbols used in this manual



*This icon symbolizes **tips** or other general **information**.*



*This icon symbolizes **warnings** or **minor errors** that should be avoided.*



*This icon symbolizes **serious errors** that must be avoided.*

## 3.1.2 Server installation

The following components must be installed on the server:

- Hardware lock driver
- Lockfile
- Licence Server program

## 3.1.3 New installation



*This chapter is only to be read and used when performing a new installation. Read chapter 3.4 Re-installation if the StruSoft License Server has already been installed.*

- Start the installation program according to the instructions above.
- Click on the **Server Installation** button in the **Security System** dialog box under the **Installation** tab. You have now reached the **Server Installation** which will guide you through the five steps of installation.

## 3.1.4 Server installation: 1/5 Driver to the hardware lock

The user can (to the right in this dialog box) see if drivers to hardware locks have been installed previously, and there is also some general information to the left in the dialog box.

- Click on the **Install** button if the **Driver to hardware lock** is missing. The Sentinel driver is run as a separate installation program. Follow the instructions.
- Click on **Next**.

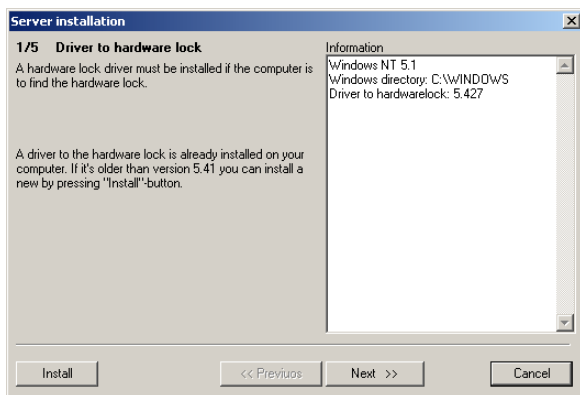


Image 4. Server installation, 1/5, Driver to hardware lock.

### 3.1.5 Server installation: 2/5, Hardware lock

- Attach the correct hardware lock to the parallel port/USB-port of the computer.
- The text: ***A correct hardware lock is found*** is shown to the left if the installation program was able to find the lock. The number of the hardware lock will then be shown to the right.
- Click on ***Next***.

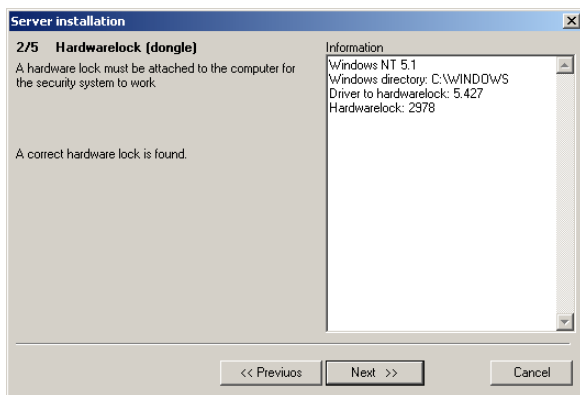


Image 5. Server installation, 2/5, Hardware lock.

## 3.1.6 Server installation: 3/5, Lockfile

There are three ways in which to install the lockfile. The user can either do a **WebUpdate** and download the lockfile, or he/she can use the floppy disk labelled "lockfile". The lockfile can also be sent as an e-mail. We will begin with how to install the lockfile from a floppy disk or an e-mail.

### 3.1.6.1 Installation using a floppy disk/e-mail

- Press the **Choose license file source...** button.
- Insert the floppy disk labelled **Lockfile**, **Hardware lock** where the lockfile (**SKASOFT.LOC**) is located.
- Set **Path to lockfile (disk drive)**.



*If the **SKASOFT.LOC** file is located on another unit, e.g. if it has been delivered via e-mail, the user can enter the path either by browsing to the correct folder or by entering the path manually.*

- First click on the **Install** button and then on **Next**.

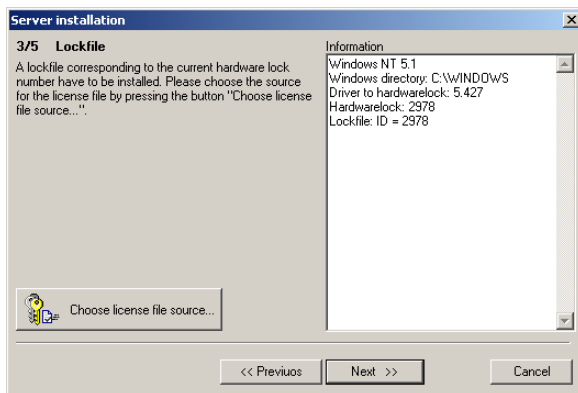
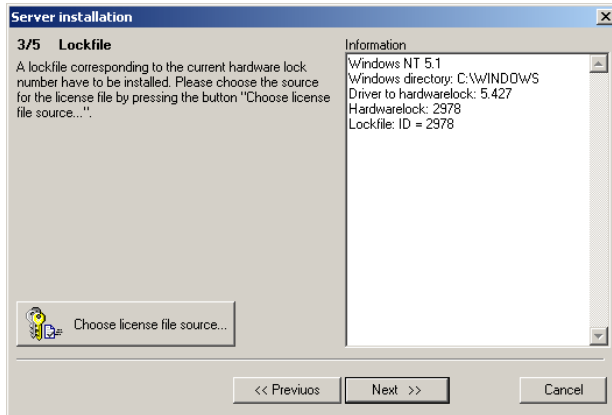


Image 6. Server installation, 3/5, Lockfile.

### 3.1.6.2 Installation with WebUpdate

The user can download the lockfile from the StruSoft download site via the Internet using the **WebUpdate** if he/she has not received a lockfile floppy disk.



*Image 7. Server installation, 3/5, Lockfile.*

- Click on the **Choose license file source...** button.
- Use **WebUpdate** for downloading the license file.

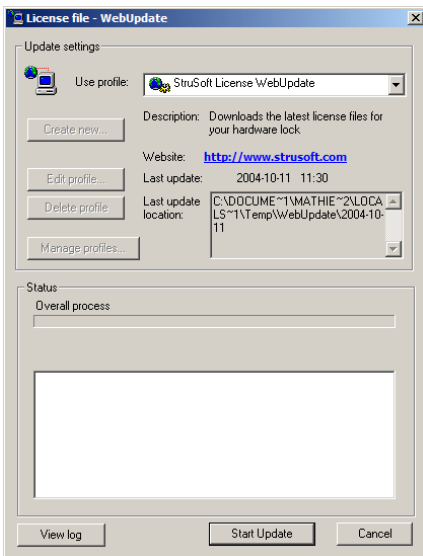


Image 8. Downloading lockfile - WebUpdate.

- Choose **Start Update** in the appearing dialog box.

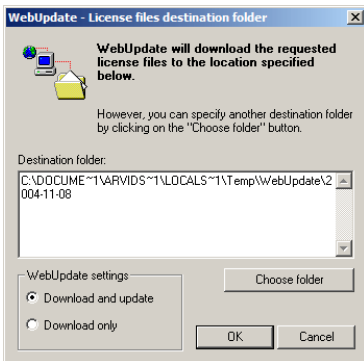


Image 9. WebUpdate - Destination folder.

- Select **Download and update** in the **WebUpdate settings** box and click on **OK**.
- A **WebUpdate** dialog box is shown and prompts where the lockfile will be saved. Click on **OK**.

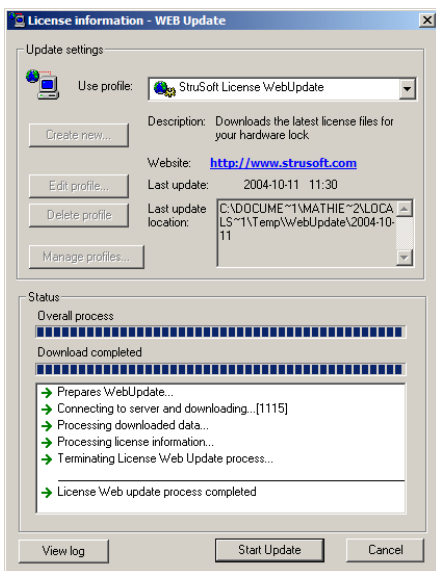


Image 10. Updating of lockfile status - WebUpdate.

- Click **Cancel** in the **License information - WEB Update** dialog box.
- Click on **Next** in the **Server installation** dialog box.

### 3.1.7 Server installation: 4/5, License Server Software

- Click on **Install** to start a separate **Setup** (a **StruSoft License Server** installation program).



Image 11. Server installation.

- Choose if the current version is to be installed or if the installation program is to be connected to StruSoft’s download site from which the user can check for (and download) a new program version.



*We recommend the **Connect to StruSoft...** option since there might be a new updated version of the **StruSoft License Server** software.*

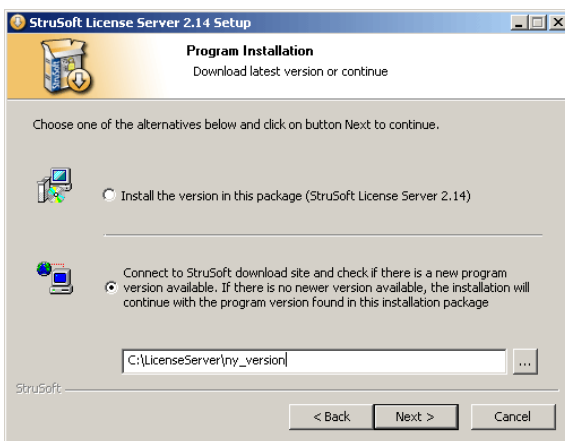


Image 12. Server installation.

- Depending on the user's current system configuration several steps of installation will be shown. StruSoft strongly recommends the user to follow the instructions and suggestions stated by the installation program. Run the installation program until it is finished and **wait 5 seconds**.



*If the user wants to have access to statistics information on the license usage then **MDAC** and **DAO** drivers must be installed. The installation program will notice if anything is missing and suggests appropriate actions according to that.*

- Choose a port that **StruSoft License Server** will be listening to (The clients will connect to this port).



*StruSoft suggests the user to choose a valid port in the 8080-64500 **intervals**. If the chosen port is busy then the **StruSoft License Server** will not start. Run a so called **command prompt** and write **netstat -an** to make sure that the chosen port is available. Control that the chosen port is not one of the listed ports in use.*

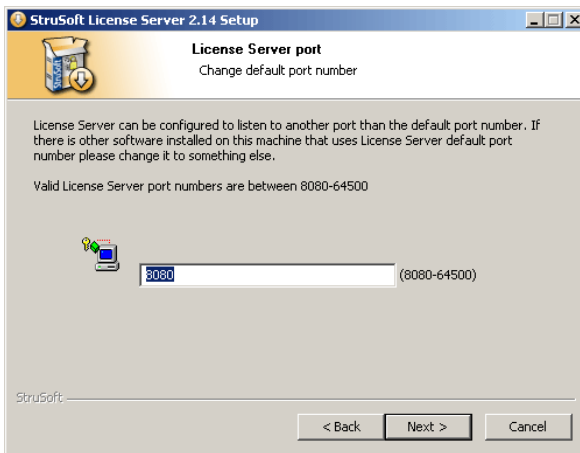


Image 13. Server installation.

The **piPeX Client** program will start after a completed installation. This program is an administrative tool for the **StruSoft License Server**. The **piPeX**

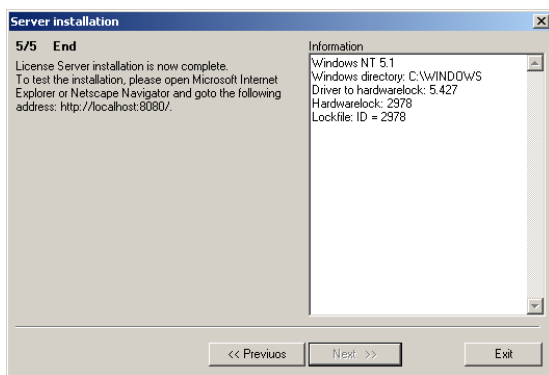
**Client** is also available as a stand-alone installation that can be installed in any computer in the network to make the administration of **StruSoft License Server** easier. See chapter 3.3 for further information on this tool.



*An icon, a head with a key, belonging to the **StruSoft License Server** will be shown in the taskbar.*

### 3.1.8 Server installation: 5/5, End

- The installation is now complete and the user can click on **Exit**.



*Image 15. Server installation, 5/5, End.*

- Start any optional **Internet Browser** (e.g. Microsoft Internet Explorer).
- Enter the address **http://localhost:8080/**
- The **License Server** has been correctly installed if the server responds with showing a homepage.



*If the server doesn't respond it might be due to one of the following:*

- *Incorrect port. Port 8080 is incorrect.*
- *The License Server software has for some reason been shut down.*
- *The Internet Browser was incorrectly configured.*

## 3.2 Updating the lockfile

An updating of the lockfile/licensefile must be done if the user has purchased new licenses or for any other reason needs to re-install the licensefile.



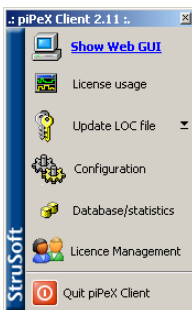
*An updating of the lockfile can only be done via the **piPeX Client** program either on the computer on which the license server is installed, or on an optional computer in the network provided that the stand-alone version of the **piPeX Client** is installed and logged on to the **StruSoft License Server**. Read more in the **piPeX Client** chapter.*



*When updating the **LOC** file the following will happen:*

- *Current license file **SKASOFT.LOC** will be replaced.*
- *The program definition file **Apps.dat** will be updated.*
- *An internal system updating of the **License Server** software.*

Click with the right mouse button on the **head and key** icon in the status bar belonging to the **piPeX Client**. This menu will be shown:

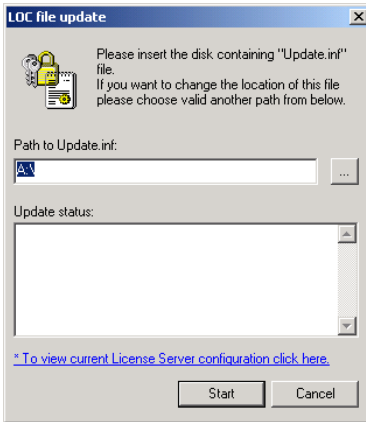


Choose **Update LOC-file**. Two options will be given:

### From floppy disk or other unit

A floppy disk labelled (**Lockfile**, **Hardware lock**) is needed when updating the lockfile from a floppy disk. The floppy disk will have a written **ID** number on it. Note that this number must match the number on the hardware lock. The above mentioned lockfile can also be distributed via e-mail.

- Click on **From floppy disk or other unit.**



*Image 16. Updating of lockfile.*

- Write the path to the **Update.inf** information file (this file doesn't necessarily have to be on a floppy disk). Click on **Install**.
- The **StruSoft License Server** will now show a summary where the differences in the license file (the **LOC** file) before and after the updating are shown in a list box. Click on **Apply LOC file changes** to accept the license changes.
- The licensefile is now updated.



*The **License Server** software does not have to be re-started in order for the changes to take place.*



*The **CD** has an **Update licensefile** option that **MUST NOT** be used for a server installation.*

## Use WebUpdate to download the licensefile

(Requires access to the Internet)

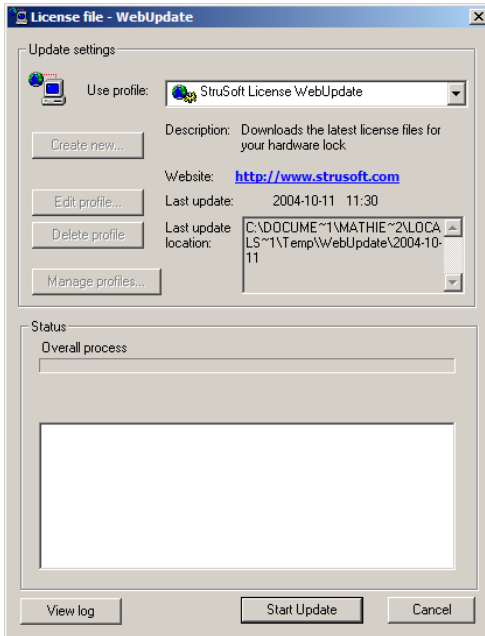


Image 18. Updating of the lockfile - WebUpdate.

- Choose **Start Update** in the shown dialog box.
- The **StruSoft License Server** will now show a summary where the differences in the license file (the **LOC** file) before and after the updating are shown in a list box. Click on **Apply LOC file changes** to accept the license changes.
- The licensefile is now updated.



*The **StruSoft License Server** software does not have to be re-started in order for the changes to take place.*

### 3.2.1 The Update.inf file

The **Update.inf** file is used by the **StruSoft License Server** for updating the information in the **LOC** file as well as for updating the license information within the **StruSoft License Server** software.

An abstract from the file is seen below:

```
<begin>
...
<execute>
  <command="FileCopy" file="%dir\skasoft.loc" destination="WIN_PATH" text=" " />
  <command="FileCopy" file="%dir\Apps.dat" destination="APP_PATH" text=" " />
</execute>
...
<end>
```

The content of the file is to be interpreted as follows:

- **command** states what command is to be run; in this case it is **FileCopy**.
- **file** states the file to be copied.
  - **%dir** is a macro and means current folder (where the **Update.inf** file is located).
- **destination** states the target folder.
  - **WIN\_PATH** is a macro and signifies the Microsoft Windows folder.
  - **APP\_PATH** is a macro and signifies the **StruSoft License Server** folder.
- **text** states the status text to be written in the updating dialog box.

## 3.3 piPeX Client



*The **piPeX Client** is an administrative tool for the **StruSoft License Server**. It uses a special **IPC (Interprocess Communication)** technique called **pipes** (hence the name) that enables the program to connect itself to the **StruSoft License Server** process even though it might be run on another computer in the network.*

When the **StruSoft License Server** is installed on the server (computer) the **piPeX Client** program will also be installed and started. A link to the **piPeX Client** will be located under **Start up** or **Auto start** which means that the **piPeX Client** always starts when logging in. If the **piPeX Client** is run on the server, i.e. the same computer as the **StruSoft License Server** is installed and run; the user will not have to enter any login information (something that has to be done if the **piPeX Client** is installed as a stand-alone application on an optional client in the network).



*The **piPeX Client** stand-alone application shouldn't be installed and used by others than system administrators since the program is only intended as a configuration tool for the **StruSoft License Server**.*



*It can sometimes be preferable to give another user than the system administrator access to the **piPeX Client** in order to e.g. enable an updating of the licensefile on the license server if the system administrator is unavailable.*

### 3.3.1 Logging in

Start the **piPeX Client** by entering the **Program\StruSoft License Server** and choose **piPeX Client**. The box seen below will then be shown:



*The user must be registered as a so-called **piPeX** user in the **StruSoft License Server** if the **piPeX Client** is run as a stand-alone application.*

*The first time registration of **StruSoft** users can only be done from the server computer; i.e. the computer on which the **StruSoft License Server** is installed; see chapters later on.*

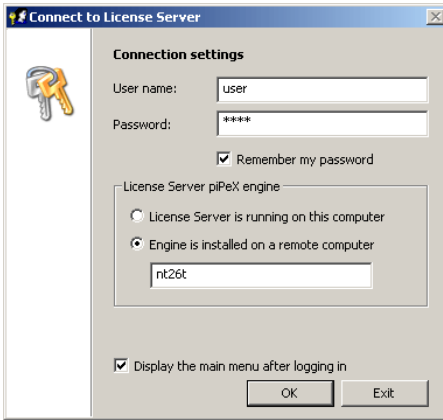


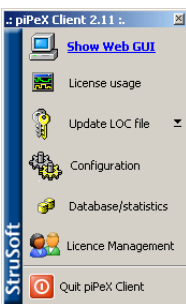
Image 19. Login.

Set user name and password. Write the name of the computer on which the **StruSoft License Server** is running.



*Do not use IP number, use computer name.*

Then choose **OK**. The **piPeX Client** is now trying to establish a connection to the **StruSoft License Server**. The user must, if the logging in was unsuccessful, check if the computer name as well as the user information was correct.



The menu will appear if the login was successful (please see the picture to the left).

The menus are described below:

### 3.3.2 License Usage

The **License Usage** is somewhat similar to the **Task Manager**. With the **License Usage** the user can have detailed information on what is going on within the **StruSoft License Server**. It is, among other things, possible to see a log list with all calls that have been made to the **License Server**.

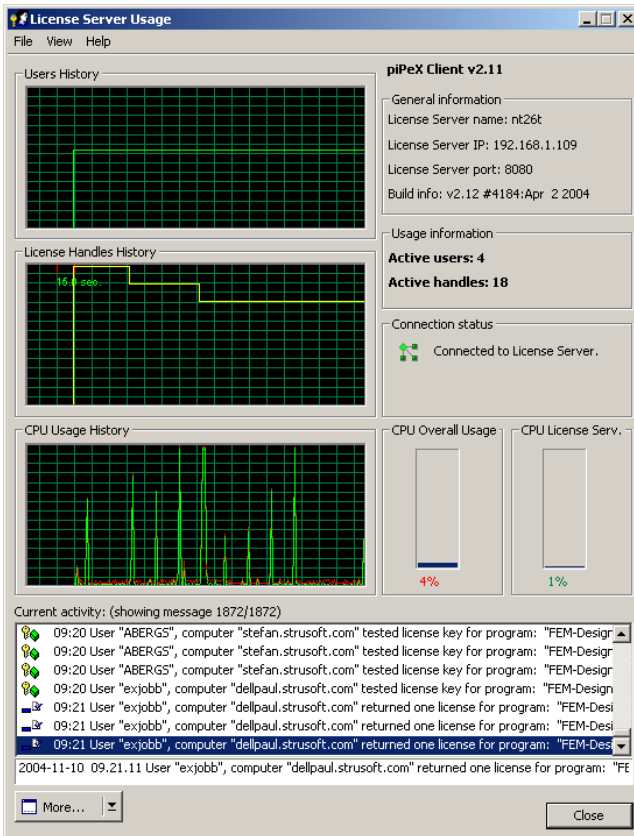


Image 21. StruSoft License Server status.

Problems with programs going into a demo-mode can often be solved by having a look at the **Current activity** log list.

### 3.3.3 Update LOC-File

Read chapter 3.2, Updating of lockfile.



*An update of the license information on the **StruSoft License Server** using **piPeX Client** stand-alone requires that the user is registered as a **piPeX** user and has been given the permissions to update the information.*

### 3.3.4 Configuration

This menu allows the user to make settings that in one way or the other affects the functionality of the **StruSoft License Server**.

#### 3.3.4.1 License Server Settings

The user is here given the opportunity to, among other things, set the port to which the **StruSoft License Server** is to listen to, as well as make other settings concerning the **Web User Interface** itself; the so-called **Web GUI**.

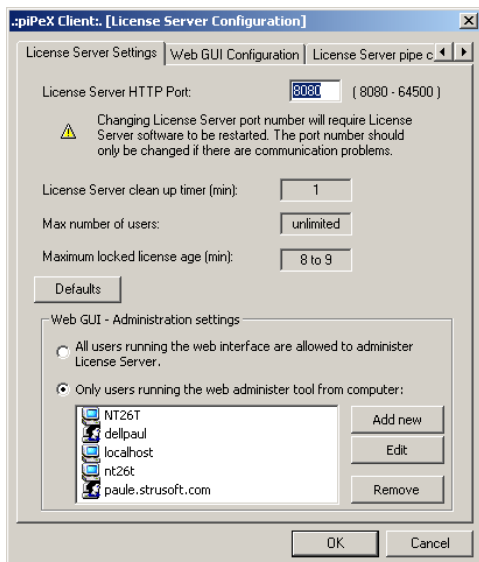


Image 21. General settings.

### 3.3.4.2 Web GUI configuration

The user can change the appearance of the Web GUI and also what the links are to be pointed at. It can sometimes be preferable to have links pointing at the **IP** number instead of the computer name.

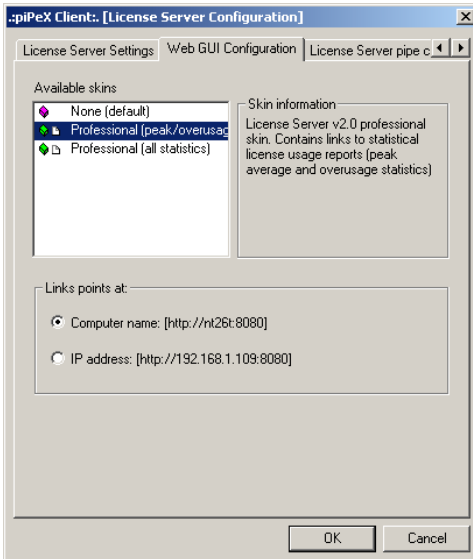


Image23. Web User Interface configuration StruSoft License Server.

### 3.3.4.3 License Server pipe Communication

By using the **piPeX Client** tool it is possible to enter users allowed to be connected to the **StruSoft License Server**.

Choose the **Add new** option to add a new user. Then enter the user name and password to be used when connecting from a client.

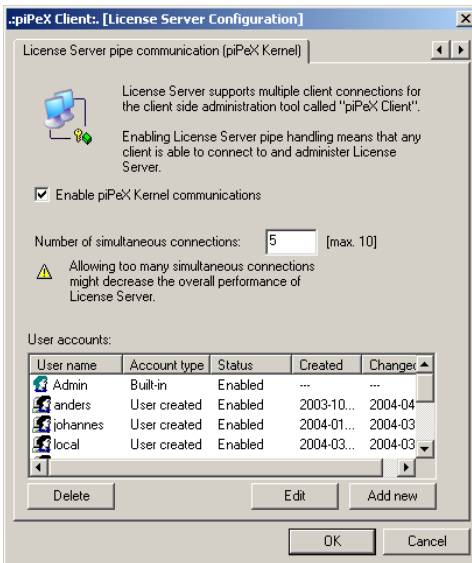


Image 24. Add new user.

It is possible to change the permissions the new user is going to have.

Mark the user's permissions and then choose **OK**.

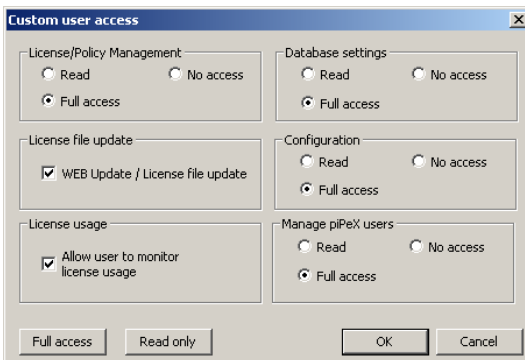


Image 25. Custom user access.

### 3.3.5 Database/statistics

The **StruSoft License Server** uses a Microsoft© Access© database to store statistics on the license usage. The statistics are shown in an **Internet Browser** by clicking on the link menus under **Menu** on the **StruSoft License Server** main page.

An example on license usage statistics:

Week report, peak average statistics - week "45", year 2004							
License average peak statistics (license usage % of available licenses)							
Program	Monday 1/11	Tuesday 2/11	Wednesday 3/11	Thursday 4/11	Friday 5/11	Saturday 6/11	Sunday 7/11
FEM-Design Section Editor, v5.0	-	-	6.7	-	-	-	-
Ramanalys, v4.0x	-	13.3	-	6.7	-	-	-
FEM-Design Reinforcement (Built in), v5.0	100.0	100.0	100.0	100.0	40.0	-	-
Ramanalys/Betongmodul, v5.0x	33.3	40.0	33.3	33.3	13.3	-	-
Ramanalys, v5.0x	33.3	40.0	33.3	33.3	13.3	-	-
Ramanalys/Geometri & lastmallar, v5.0x	53.3	66.7	46.7	60.0	13.3	-	-
Ramanalys/Stålmodul, v5.0x	33.3	60.0	46.7	60.0	13.3	-	-
Ramanalys/Tråmodul, v5.0x	33.3	40.0	33.3	33.3	13.3	-	-
Concrete Designer Column, v5.1x	6.7	-	-	-	-	-	-
Concrete Designer, v5.1x	-	-	-	-	10.0	-	-
Ramanalys/Geometri & lastmallar, v4.2x	20.0	20.0	6.7	20.0	-	-	-
FEM-Design Base, v5.0	33.3	33.3	60.0	33.3	40.0	-	-
IMPACT, Skanska	-	-	-	6.7	6.7	-	-
FEM-Design Frame, v5.0	33.3	33.3	60.0	33.3	13.3	-	-
IMPACT, Abetong	-	-	-	13.3	-	-	-
IMPACT, -	20.0	26.7	33.3	13.3	26.7	-	-
FEM-Design Swedish code, v5.0	-	-	-	-	26.7	-	-
FEM-Design British code, v5.0	-	-	-	-	20.0	-	-
FEM-Design Root, v5.0->	10.0	10.0	18.0	10.0	12.0	-	-
FEM-Design Code Finnish code, v5.0	-	-	-	-	20.0	-	-
IMPACT Reinforcement, 1.0c-> / 1.1b->	26.7	33.3	46.7	13.3	13.3	-	-
IMPACT ELIPLAN, -	-	-	6.7	-	-	-	-
FEM-Design Plåta, v5.0	-	-	-	-	26.7	-	-
IMPACT Base, -	20.0	20.0	40.0	13.3	26.7	-	-
IMPACT Doublewall, -	20.0	20.0	40.0	13.3	26.7	-	-
Ramanalys, v5.2x	20.0	26.7	13.3	26.7	-	-	-
Concrete Designer, v5.1x	6.7	-	-	-	-	-	-

Image 26. License user statistics.

The standard setting is to keep the statistics one year back in time. It is however possible to change the setting by choosing another option from **Keep statistics**:

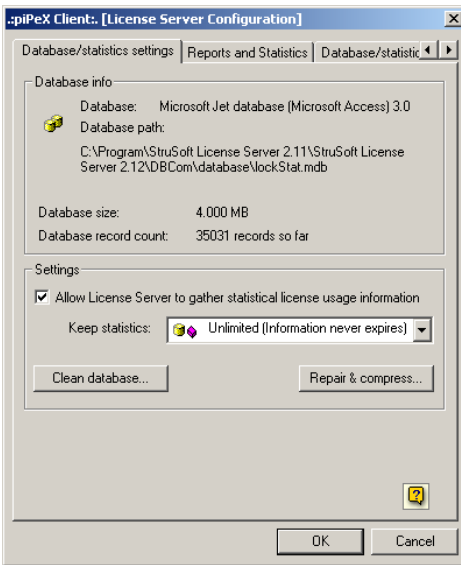


Image 27. Database settings.

The user can clean the database from all statistics by choosing **Clean database....**

It is sometimes necessary to repair and compress the database. The **StruSoft License Server** repairs and compresses the database automatically every twenty days.

### 3.3.5.1 Reports and Statistics

When looking at the statistics information on the license usage **StruSoft License Server**, depending on what statistics information the user wants to see, draws up tabulated reports in **Internet Browser**. When looking at reports further back in time the **StruSoft License Server** will first create reports by gathering information from the database and then save this information (since it's no longer changing) in so-called **OffLine Reports**. When viewing the same statistics information again, the **StruSoft License Server** will automatically show **Offline Reports**. **StruSoft License Server** will use less processor power on the server by doing like this.

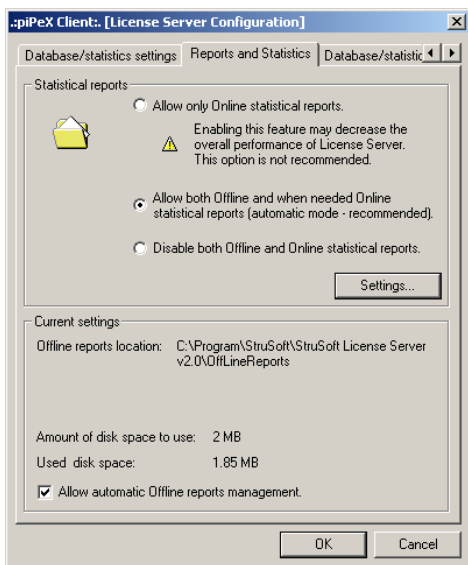


Image 28. Offline reports.

### 3.3.5.2 Database/statistics report types

There are 3 types of statistics reports:

#### **Average statistics**

This is the so-called mathematically correct statistics where the available license time is compared to the actual license usage.

#### **Peak average usage statistics**

Shows the license usage peaks for a time period.

#### **Overusage statistics**

Shows the number of attempts to overuse available licenses.

The user can, by using the options in the box below, make **StruSoft License Server** to enable or disable the statistics report types.

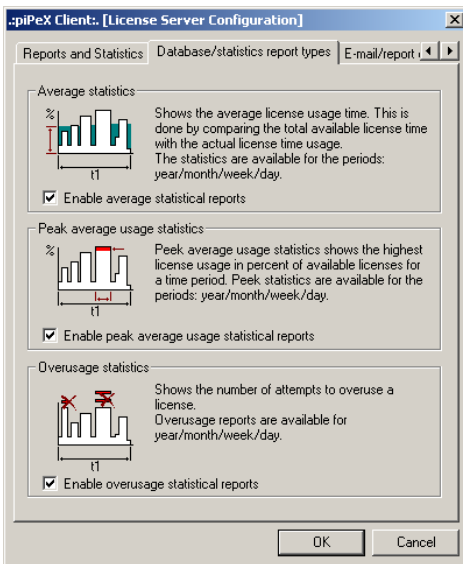


Image 29. Statistics settings.

### 3.3.5.3 E-mail/report settings

This tab enables the user to register one, or more, e-mail report profiles. The user can in this way make **StruSoft License Server** to send license usage information to optional receivers via e-mail.

**StruSoft License Server** uses its own built-in e-mail engine that has the advantage of not being bound to either Microsoft Outlook or Microsoft Exchange Server. The **StruSoft License Server** e-mail engine is called the **StruSoft Raw-Socket SMTP engine (v1.1)**.

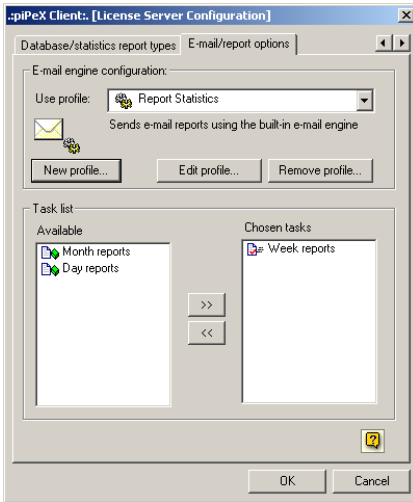


Image 30. E-mail reports.

There can be several e-mail profiles, but only one profile can be in use at the time. The user can, if having several e-mail profiles, easily change from one profile to the other by choosing profile in **Use profile:**.

Choose **New profile** when creating a new profile.

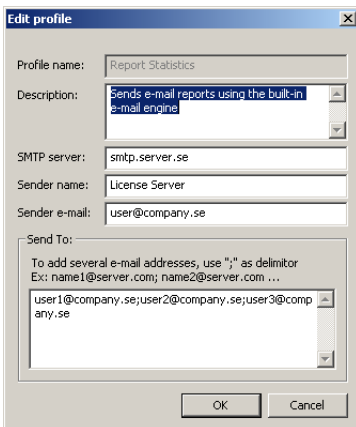


Image 31. SMTP Profile settings.

Type the necessary information and then click on **OK**.



*StruSoft License Server is configured to execute statistics reports at 01.00 the following day.*

## 3.3.6 License Management



*License Management requires special permissions for usage. Contact StruSoft for further information.*

### 3.3.6.1 What is License Manager?

**License Manager** is a license manager used for creating and allowing policy- and user rights for single users or groups of users in a network.

**License Manager** is, to put it simply, a powerful filter that filters unwanted license usage. By creating different filters the usage of licensed programs can be distributed and used in the most effective way possible for the current purpose.

**License Manager** can e.g. be used for allowing and managing licenses within the company's global network where there is a great need for a central license co-ordination.

By creating user groups for the different offices within a company's global network, the user policy rules can be used to guarantee that there will always be available licenses.

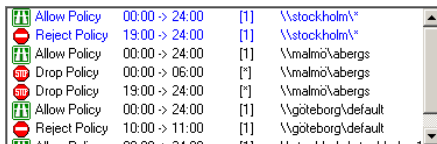
### 3.3.6.2 License Rules

The **License Manager** supports three types of license rules. A license rule is attached to a program version and addresses a group of users or a single user.

- Allow Policy
- Drop Policy
- Reject Policy

## General on license rules

Several license rules can be combined (put together) for achieving the wanted filtering effect.



Allow Policy	00:00 -> 24:00	[1]	\\stockholm*
Reject Policy	19:00 -> 24:00	[1]	\\stockholm*
Allow Policy	00:00 -> 24:00	[1]	\\malmö\abergs
Drop Policy	00:00 -> 06:00	[*]	\\malmö\abergs
Drop Policy	19:00 -> 24:00	[*]	\\malmö\abergs
Allow Policy	00:00 -> 24:00	[1]	\\göteborg\default
Reject Policy	10:00 -> 11:00	[1]	\\göteborg\default

Image32. License rules.

Several license policy rules are defined in the image shown above. The overall view is easily lost when allowing too many licenses to a single program. It is possible to create an unlimited number of license rules for a specific program. By using the filtering function (see description further on) the user can form a picture of how the license rules affects either a single user or a group of users.

The above seen image is to be interpreted as follows: There are a total number of 4 available licenses (vertical axis) for the currently shown program. The licenses are used during the twenty-four hours of day and night (horizontal axis) as follows:

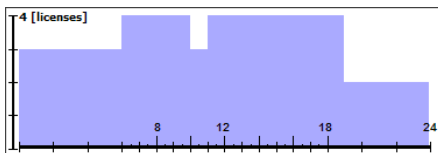


Image 33.

0 - 6                   => 3 licenses

6 - 10                  => 4 licenses

10-11                  => 3 licenses

11-18:30              => 4 licenses

18:30-24              => 2 licenses

It is possible to see which users or groups of users that have access to the licenses for the current program by using a *view filter*.

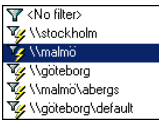


Image 34. Filter.

It is possible to set/choose a personal filter. When wanting to filter the license usage for e.g. the *malmö* group than this can be easily done by adding a personally defined filter.

**Drop policy** or **reject policy** has priority over **allow policy**. If the user defines e.g. an **allow policy** saying that 5 licenses can be used by a group of users and then defines a **reject policy** that is only valid for one license, then the license definitions will in all only be valid for 4 licenses. 4 licenses are consequently accessible to the user group. If a **drop policy** had been assigned to the mentioned group that would have resulted in no licenses having been allowed to or accessible for them at all.

The user can set the license rules to be valid during optional periods of time. All license rules are, (as a standard) valid round the clock. The user can set a license rule to be valid e.g. **for the last Friday every other month** by using the **Recurrence handler**.

## Inheritance

A user inherits the license rules within his/her user group, which means that no user specific license rules have to be defined. If a user belongs to a group that has been assigned license rules the user will first inherit the rights of the group and then inherit personal assigned license rules.

E.g.: A user, *paul*, belongs to the *malmö* group. The *malmö* group has been assigned four licenses which means that **all users** in the *malmö* group shares four licenses, so-called **floating licenses**. If *paul* is assigned one more license then that gives *paul* access to five licenses; four group licenses and one personal license.

Allow Policy	00:00 -> 24:00	[4]	\\malmö\*
Allow Policy	00:00 -> 24:00	[1]	\\malmö\paul

Image 35. License Rules.

A user only inherits the *allow policies* from the group; not the *drop/reject policies*. If a user has been given a specific *allow policy* while the group doesn't have any license rights then he will be able to use as many license rules as the personal *allow policy* states.

## User handling

The user/license manager handles the users by dividing them into groups. It is possible to create own defined user groups as long as none of the groups is called *default*. The *Default* group is a *predefined* group used within the policy manager. The *default* group can however be used as an own defined group.

### The following is not allowed

- A group name can't be used more than once.
- A user can't belong to two or more groups at the same time.

## How to proceed when defining license rules

The first thing to do before starting to define the license rules is to try and figure out how the end users will use the programs when using the License Server as a license system. A vital question to be asked is if the programs are to be located on a central/joint server from which all users within a network can have access to them, or if they are to be located on separate servers for user groups having their own **License Server** system used only by them.

If the end users use their licenses according to the first mentioned option it is most natural to proceed as follows:

### Step 1:

Create groups/group names that describes the different offices that are going to use the programs. There could be e.g. a *malmö* group and an *örebro* group.

### Step 2:

The next step is to define the number of licenses for each office. Start by assigning e.g. *four* licenses to the Örebro office and *five* to the group in Malmö.

### Step 3:

The third step is to enter the number of users in the different groups. In the below seen example we have used a license model in which the *malmö* group has 10 users and the *örebro* group has 7 users.

### Summary:

The above seen license model has the following structure/extent:

- 9 floating licenses (4 in Örebro and 5 in Malmö)
- 17 users (10 in Malmö and 7 in Örebro)

The license model implies that the *örebro* group that consists of 7 users has 4 licenses at their disposal and the *malmö* group that consists of 10 users has 5 licenses at their disposal.

A number of users can be stated when a license rule is to be set. The user can in the Örebro and Malmö example easily set 17 users by using the built-in **GUI** system.

### Allow policy

A number of licenses can be assigned to an individual user or a group of users by creating an **Allow Policy**. The license rule is valid between the specified hours set in the **Allow Policy** guide. The allow policy rule is valid during specified periods; the allow policy rule can be set to be valid e.g. only Fridays every other week (see image below).

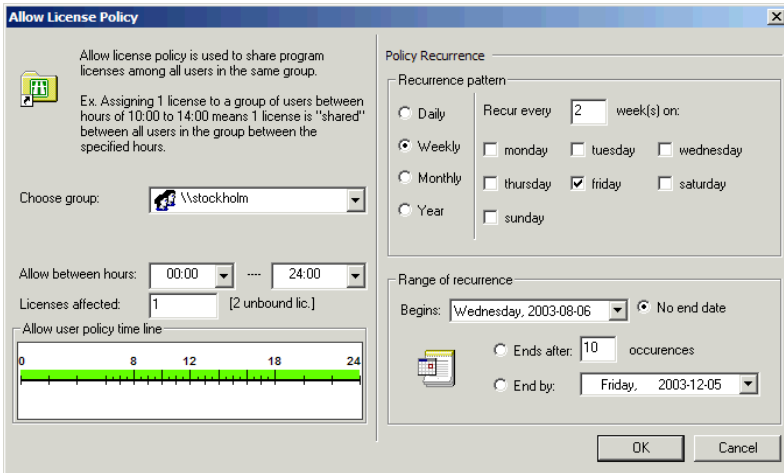


Image 36. Allow License Policy.

The **Allow user policy time line** shows between what specified hours the **Allow Policy** is valid. In the above shown image the *stockholm* allow policy is valid between the hours of 00:00 and 24:00 starting Wednesday 2003-08-06. The image also shows that this particular allow policy is only valid every other Friday - no end date. It is also possible to set the allow policy to be valid e.g. 10 times or until a date set in **End by**:

The green marking is affecting the license usage in a positive way.

In **Licenses affected** the user enters the number of licenses that are to be assigned to the policy.

Several allow policies can be created for a single user or a group of users. The filter handler will within the **License Server** consider all allow policies and create a general rule that is a compilation of stated rules.

**E.g.:** By creating two allow policies, one that is valid for one user or a group of users between the specified hours of 00:00-12:00, and one that is valid between 12:00 and 24:00; the **License Management** will interpret the rules as if the user has defined only one allow policy between 00:00 and 24:00.

# Main window

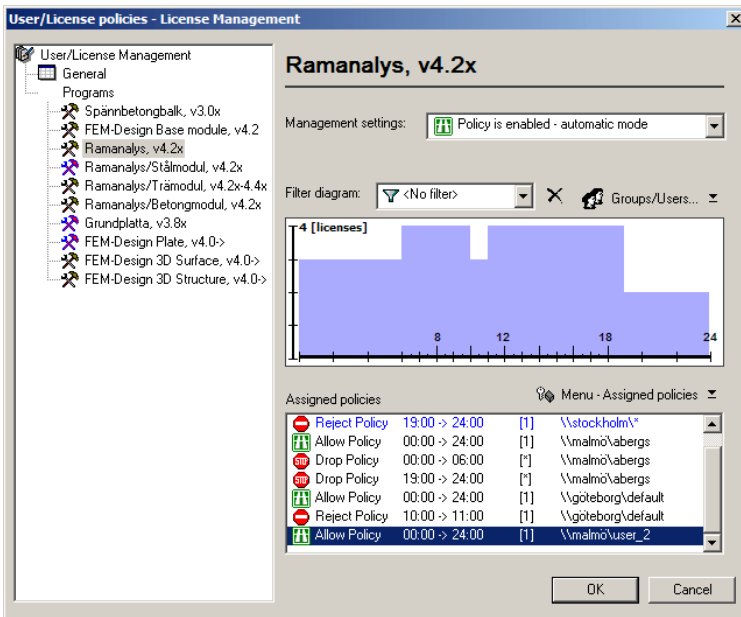


Image 37. License Management.

The main window is the entrance to where the user can *define/change* and *delete* license rules; a so-called license filter. It is in the same window possible to define/change and delete groups or users. The user can, by using the filtering function in **Filter diagram**, see how the assigned licenses affect the groups/users. It is in **Filter diagram** possible to sort the information for specific dates; e.g. Friday 2003-08-15.

**Management settings** tells the user how the current assigned filters will be handled in the license manager.

The following settings can be done:

- **Policy is enabled - automatic mode** means that users not registered in the system can gain access to the *available not assigned* licenses. If a program comes with a total number of 10 licenses, and only 7 of them have been as-

signed to users/groups of users using license rules, then it will be possible for users who were not assigned any license rules to gain access to the 3 remaining licenses unless those are currently used.

- **Policy is enabled - exclusive mode** means that only users having been assigned license rules can gain access to available licenses. Had there (as in the example above) been 3 remaining licenses then users who have not been assigned license rules will be denied access.
- **Policy is disabled** means that license rules stated for the current program will not be valid.

## General

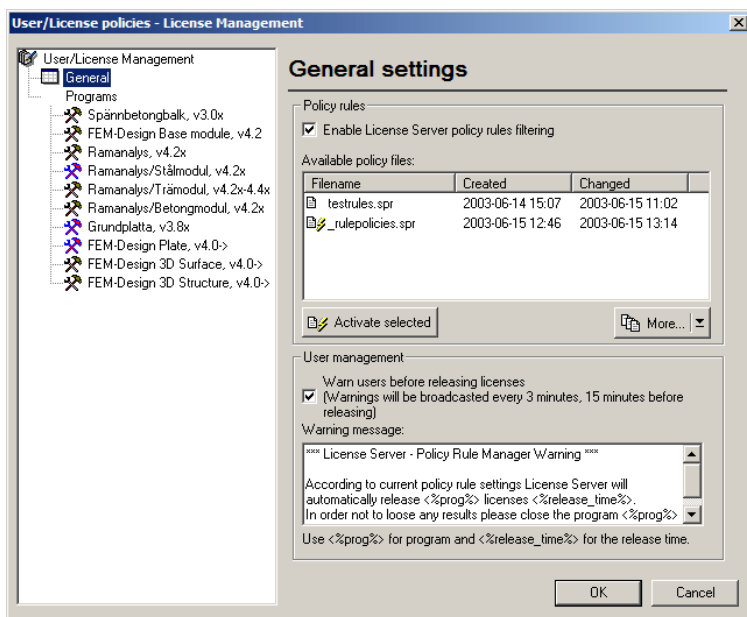


Image 38. General settings.

The **General** tab is used for stating general settings for the license management. All filtering can be made inactive by clearing the **Enable License Server policy**

**rules filtering** box. It is, in short, easy to eliminate all license/filter policies by inactivating the **Enable License Server policy rules filtering** box.

## 3.4 Re-installation

A re-installation can be either an updating of **StruSoft License Server** to a new program version, or a re-installation of the already installed version.

The user must have administrator permissions (be able to configure services and install programs) when re-installing a program.



*The license server is not to be uninstalled using **Add/Remove programs** during a re-installation. It is also important that the **StruSoft License Server** service is running on the server.*



*The following will happen when updating the **LOC** file:*

- *Current license file **SKASOFT.LOC** will be replaced.*
- *The program definition file **Apps.dat** will be updated.*
- *An internal system updating of the **StruSoft License Server** software.*

Initiate the **StruSoft License Server** installation by a double click on the **setup.exe** file. The file is located in the **h-las\LicServ** folder on the StruSoft program CD. The file can also be downloaded from StruSoft's server.

- Choose if the current version is to be installed or if the installation program is to be connected to StruSoft's download site from which the user can check for (and download) a new program version.



*We recommend the **Connect to StruSoft...** option since there might be a new updated version of the **StruSoft License Server** software.*

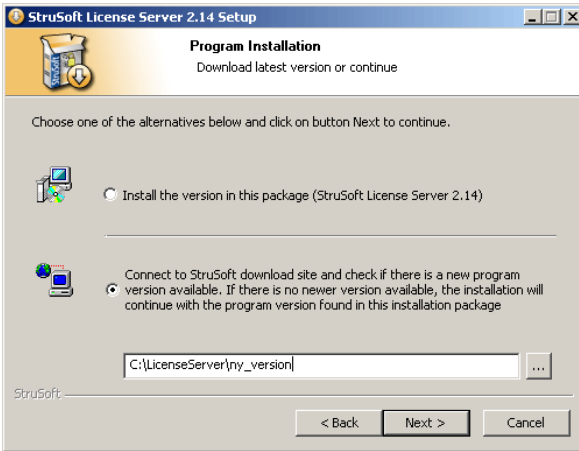


Image 12. Server installation.

The installation program will recognize a previously installed version of **StruSoft License Server** and tell the user to uninstall it (see the image below):

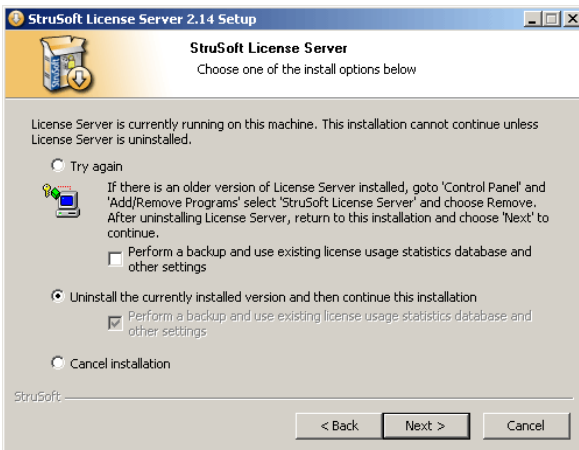


Image 39. Re-installation options.

The installation program will make suggestions of how to uninstall **StruSoft License Server** depending on the currently installed version.



*The installation program will save most settings from the earlier version.*

*The new installation will, among other things, save and use license usage statistics and port settings.*

## 3.5 Client installation

The client installation can begin when the security system has been installed and is running on the server. The **License Server** program must be running on the server if the installation is to be successful.

There are different ways in how to prepare a client computer for a network installation. The easiest way is to use the security system installation program. Another way is to do the settings manually as described below.



*Don't use the **IP** number when naming the path to the server. Use the **Computer name** instead.*



*The following will happen during a client installation settings in **SKASOFT.INI** under the **[LockOptions]** chapter:*

- ***LicenseServerName** is set to the server name.*
- ***LicenseServerPort** is set to the server port.*
- *The **Network** flag is set to **Y**.*

- *E.g.:*

*LicenseServerName=nt26t*

*LicenseServerPort=8080*

*Network=Y*

### Automatic configuration:

Choose **Client installation**.

A dialog box will then be shown. If the information text **License Server Manager could not establish a connection to ...** is shown, then this means that the address to the computer on which the **License Server** has been installed is either default, or not yet set. It could also be that the **License Server** is not running.

Choose **Settings** and enter *server name* and *server port*.

Then choose **OK** and after that **Retry**.

If the **License Server** responds then the text **A connection could be establish to License Server** will be shown.

The **Retry** button is deactivated. Choose **OK**.

The client is now configured.

## 3.5.1 Instructions for use

The below described warnings/messages might be shown when the user uses the network security system. The configuration of the client depends on the contents of the **SKASOFT.INI** file.

- If the client has previously been configured for a network installation (older security system) or if the client installation hasn't been performed according to the **client installation** chapter, a setting dialog box - in which **server name** and **server port** must be entered - will be shown.

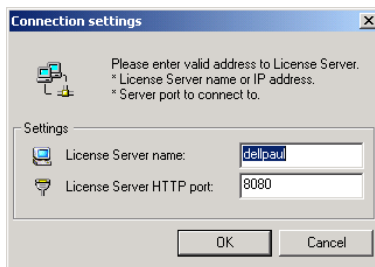


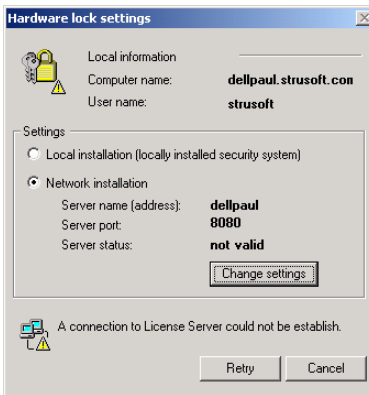
Image 40. Setting of server name and server port.



*Don't use the **IP** number when naming the path to the server. Use **Computer name** instead.*

Enter **server name** and **server port** and then choose **OK**.

- If the server name and/or server port has been incorrectly configured, or if the security server and/or **StruSoft License Server** are not running, a setting dialog box - in which the user can re-configure the security system - might be shown.



*Image 41. Re-configuration of the security system.*

The user can, under **Settings**, change the security system settings from a network lock to **Local installation** or the other way around, i.e. from **Local installation** to **Network installation**. The user must choose **Change settings** in order to change current network settings. Enter server name and server port. Choose **OK** and then **Retry**.

The status text in the lower part of the window will change if the system finds the license server (if using a network installation) or the hardware lock (if using a local installation).



*There are no problems with shifting between a **local installation** and a **network installation** if the user brings the computer home. If the user e.g. uses a **hardware lock** at home and a **network lock** at work then the security system can be made to shift between the two modes by a simple option.*

- An error message will be shown if the client doesn't find the **License Server**, or if an error has occurred during the communication with the server.

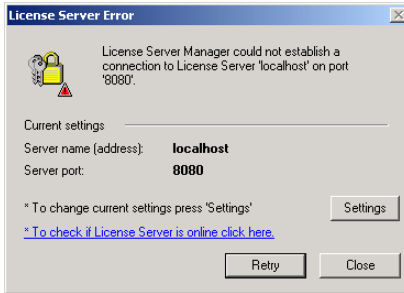


Image 42. Errors during communication with the StruSoft License Server.

Choose **Settings** and then enter **computer name** and a **computer port** where **StruSoft License Server** is installed. Choose **OK** and then **Retry**.

### 3.5.2 Program specific settings

It is sometimes necessary to use the network security system (i.e. the **StruSoft License Server**) as well as the local hardware lock connected to a computer's USB- or parallel port from the same machine.

The user must press the **Shift**-key on the keyboard when starting the program in order to be able to switch between the security systems of a program. The below seen window will then be shown:

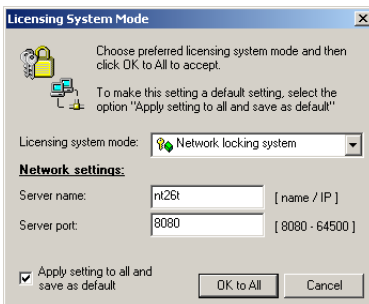


Image 43. Program specific settings.

Choose a setting that is suitable for the current program and mark **Apply settings to all and save as default** if the current setting is to be stored until the next time the program is going to be used. Then choose **OK to All**.

The chosen settings will only be valid for the current use of the program if the user doesn't mark **Apply setting....**



*What will happen if the **Apply setting to all...** option is marked?*

*The setting is saved in the **skasoft.ini** file in the **LockOptions/Overrides** section.*

*E.g.:*

*[LockOptions/Overrides]*

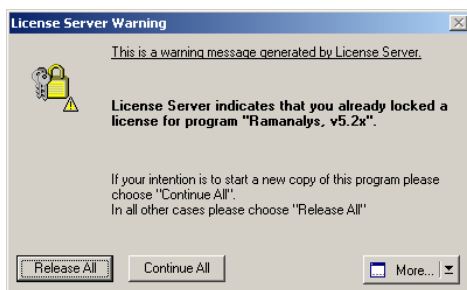
*{9}.forceMode=N*

*{9}.forceOption=nt26t:8080*

### 3.5.3 Warnings and other messages

#### License Server Warning

- If a program crashes (i.e. ceases to function and gets an error message) and is re-started.
- If several copies of one program are started on the same computer.



*Image 44. Warning dialog box.*

Choose **Release All** or **Continue All** depending on the circumstances. The meanings of the different options are described below.

## Release All

This command means that all previous licenses for the latest run will be re-used.

## Release/Continue

Each program or program-unit in use is being identified towards the security system with an **ID** number. When a program starts up it might question the security system for **ID** numbers belonging to other programs or units that the started program will use.

By clicking on the **Release** button the user will only retrieve the previous license for the program stated by the current message.

A new license will be claimed for the program stated by the current message by clicking on **Continue**. **Continue All** - does the opposite, i.e. locks additional licenses on the server. If the user wants to start several instances on the same computer; choose **Continue All**. We don't recommend this option unless the user really means to start several copies of one program on the same computer.

### 3.5.4 Other messages



Image 45. Warning dialog box.

An error message will be shown if a user tries to run a program to which he lacks a license, or if all licenses are busy.

The user must choose **Do not show this warning message again** and then choose **OK to All** if he doesn't want to receive this message again.



*Marking the **Do not show this warning message again** makes the program to go in to a **DEMO mode** the next time it is being run and without showing any warnings at all. This might lead to confusion on why the program is being run in a **DEMO mode**.*



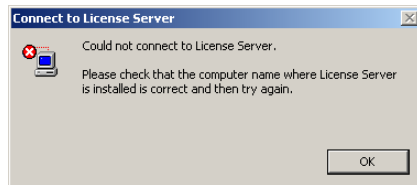
If the user wants to set the program so that no similar warning messages are shown then this must be done manually in the **SKASOFT.INI** file.

Find the [**LockSysSuppressions**] section. Add the following text (if the section is available) on the line below: **SuppressAll=Y**; if it isn't available then you must create the section first. Save the file.

## 3.6 Configuration of the StruSoft License Server service

After the installation of the **StruSoft License Server** software the icon (key and head) will be visible in the taskbar.

The icon belongs to the **piPeX Client** tool; see chapter 3.3.



The below shown message indicates that the **StruSoft License Server** service isn't running.

Go to the **Control panel** and **Administrative Tools**. Choose **Services**.

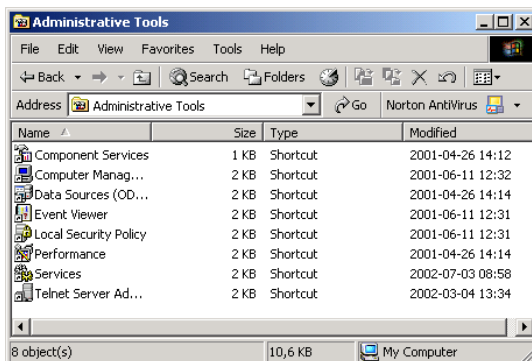


Image 46. Administrative tools.

Find the **StruSoft License Server** service.

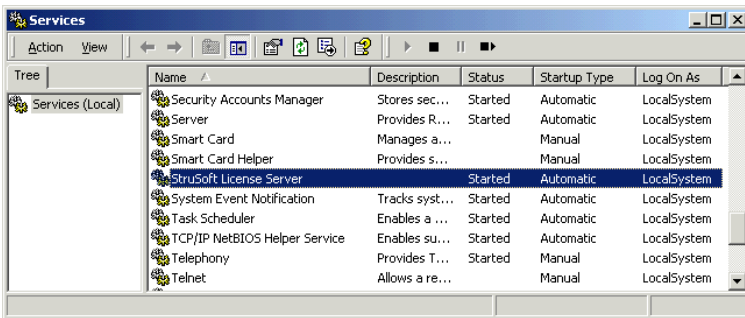


Image 47. Services.

Click on it with the right mouse button and choose **Properties**.

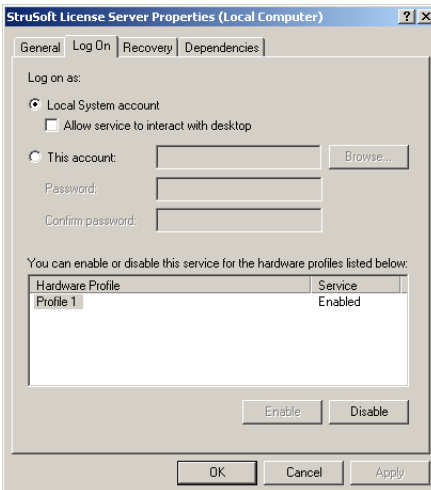


Image 48 Settings for the StruSoft License Server service.

The service will have the following settings under the **LogOn** tab:

- Local Account

Change the starting method to **Automatic** under the **General** tab. Click on the **Start** button if the service is not running.

Unlike the previous versions (versions 1.1-2.0) the icon will not be shown when the **StruSoft License Server** service starts. The user must now manually go to

the start menu **StartUp**, under programs and choose **piPeX Client**. The tool will now be connected to the **StruSoft License Server**.

The **piPeX Client** will start automatically during the next log on since it is located under **StartUp**.



*The **StruSoft License Server** service should never be closed or re-started. The **Web GUI** is to be used for making locked licenses available. Depending on the user's permissions (that are bound to the computer name; see chapter 3.3.4.1) via the **Web GUI**, he can either make his own, or another user's, locked licenses available.*

*The **StruSoft License Server** service should never be re-started when updating a licensefile.*

## 3.7 The StruSoft License Server

Use any optional **Internet Browser** and load the address on which the **StruSoft License Server** software is installed and in use:

**http://[computer name]:[computer port]/**. If the computer is named **nt26t** and the port **8080** then the address will be **http://nt26t:8080/**. The **StruSoft License Server** will now respond with a **Web GUI**.

### Explanation of the header

#### **License Server name**

This tells the user the name of the computer on which the **StruSoft License Server** is running; in this case **nt26t**. **StruSoft License Server** is in use.

#### **Build info: #4184 (May 14 2004)**

This informs the user of the number of compilings necessary for making this version of the **StruSoft License Server**. The date and time for the latest re-compiling are written in the parenthesis.

#### **Server up time: 0 days, 2 hours**

This indicates the time that the **StruSoft License Server** has been running.

#### **Server time: 2004-11-09 10:19:53**

Current system time on the server.

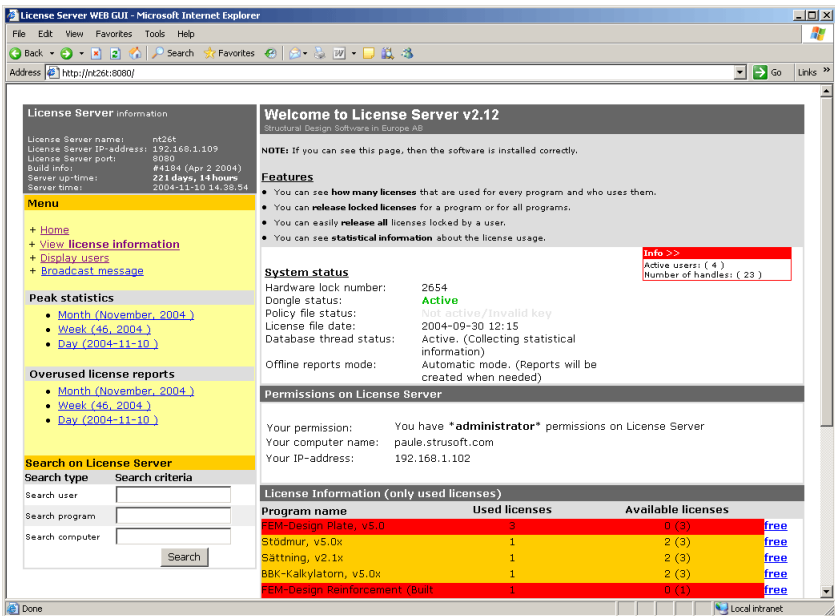


Image49. Web User Interface StruSoft License Server.

### 3.7.1 Link menus

- **Home**  
Shows the start page in which system information, a program user list and other important information is being presented.
- **View license information**  
Shows a compilation of each program and what it can be used for.
- **Display users**  
Shows a user list on all **License Server** users.
- **Broadcast message**  
Used for sending messages to the users who are running programs and are using the network security system. Sending messages to the user is similar to sending an e-mail. The difference is that the messages are sent by and through the **StruSoft License Server**.

A message stays in the system for 10 days (standard) after which the message will be erased. This means that a message must be collected within 10 days.

### 3.7.2 Other menus (the older versions)

**To see information about every program...**

The same as the **Info link** menu.

**To see extended information about the usage of every program...**

The same as the **Status link** menu.

**To see all users that are using License Server...**

Shows a user list on all **License Server** users.

### 3.7.3 Important status information

- **License Server Status:** Shows information on the **hardware lock**, and the **SKASOFT.LOC** licensefile.
- **Permissions on License Server:** Shows the rights on the computer that is connected to the **License Server** via the **Web GUI**. The name and **IP** number of the connecting computer are also shown here.
- **License information:** Shows a list on the programs that are available in the licensefile. The **Program ID** field shows the **ID** number of a program, **Total number of licenses** shows the total number of licenses and **Licenses used** shows the number of used licenses.



*Programs in use at the moment are being sorted in a descending order along the use. If e.g. the number of used licenses for a program is less than the number of available licenses then this item will be marked in **yellow**; otherwise it will be marked in **red**.*

### 3.7.4 Search

It is in the **Search on License Server** field possible to search for **user**, **program** and **computer**. If a user for example wants to search for a user who at the mo-

ment uses the **License Server** he only has to enter the user name and then choose **Search**.

A list of the programs that the above mentioned user uses will be shown if the search is successful. Other information about the user will also be presented.

### 3.7.5 System links

The link menus that execute one or several commands on the **License Server** are called system links.

- **release licenses**: used for releasing (clearing) all used licenses for a program.
  - The link is mapped to the internal **free\_program(parameter)** system command.



*Example:*

*http://nt26t:8080/>>free\_program(169); releases all licenses for the program with program ID 169.*

*http://nt26t:8080/>>free\_program(ALL); releases all licenses for all programs.*

- **delete user**: Is used for deleting a user from the **License Server**. All licenses used by this user at the moment will be released.
  - The link is mapped to the internal **kill\_user(parameter)** system command.



*Example:*

*http://nt26t:8080/>>kill\_user(paul); releases all licenses that the user paul is using at the moment.*

- **release\_handle**: is used for releasing a certain session of a used license.
  - The link is mapped to the internal **release\_handle(parameter)** system command.



*Example:*

*http://nt26t:8080/*

*>>release\_handle(15877768158476681026388); releases a locked license to a certain user.*

There are no problems with putting several commands together. If a system administrator wants to put several commands together to make only one command of them then he can do as follows:

```
http://[computername]:[computerport]/>>command1(...);command(s);
```

The supported commands are:

- **show\_status**(bit number) or ALL
- **free\_program**(bit number) or ALL
- **show\_info**(bit number) or ALL
- **release\_handle**(handle id)
- **show\_user**(user\_name)
- **kill\_user**(user\_name) or ALL
- **show\_computer**(computer\_name)

### 3.7.6 Rights on the License Server

Some system commands demand that the user who runs the command has the right to do so. The command will not be processed if a user (i.e. a computer) in a network tries to click on e.g. the **release\_licenses** link when he does not have the right to do so.

A user who lacks the rights of an administrator will only be able to run commands affecting the computer that the user is using.

Click with the right mouse button on the padlock icon in the taskbar in order to change the rights on the **License Server**. Choose the **Configure License Server** menu.

Personal security settings can be made in the **Web User Interface - Administration settings** field.

It isn't advisable to let all users have an administrator's rights.

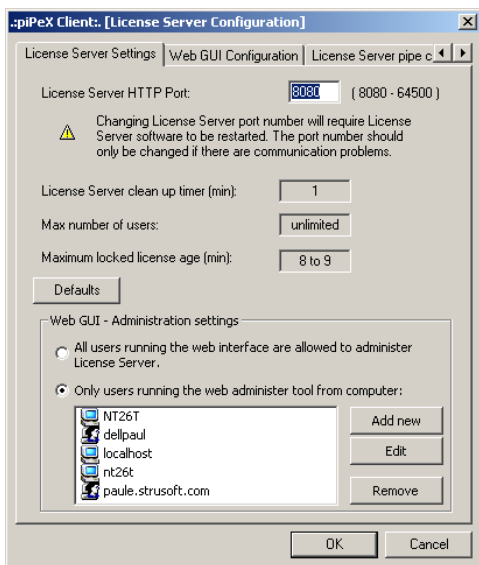


Image 50. StruSoft License Server settings.

Choose **All users running the web interface are allowed to administer License Server** if you want all users to be allowed the rights of an administrator.

Choose **Only users running the web administrator tool from computer** in order to give the rights of an administrator to a chosen user. Choose **Add New** and enter the name of the computer that is going to be given the rights. Choose **OK**.

### 3.7.7 Port settings

The **License Server** has been configured to work on port **8080**. This setting can be changed by entering another port number in the settings dialog box.

The software must then be re-started in order for the new settings to take place.

## 3.7.8 Network/Network settings

Programs using the network security system are being registered to the **StruSoft License Server** by using one of the below seen ways of communication:

1. HTTP protocol
2. Windows pipes

The communication between the server and the client is encrypted with a 56 bit 3DES encryption algorithm. The **StruSoft License Server** can be compared to a Web server.

Programs using the network security system are being registered to **StruSoft License Server** by using a TCP/IP and HTTP protocol.

If the communication with the **StruSoft License Server** is slow and if it takes a long time to start a program, or if the Web interface is slow, this might depend on incorrect network settings. The problem can also be caused by the DNS server, but this differs from case to case due to current network configuration.

### **We suggest the following (on the client):**

If your operating system is WinNT/Win2000/WindowsXP then try:

Start the command prompt and write **ipconfig/release** and then **ipconfig/renew**.

If the above described taken measure doesn't help, it might depend on the DNS server configuration used for name resolution - ex. the ISP DNS server. In this case the name resolution will be passed through the network to the DNS server and then back again, which makes calls to the **StruSoft License Server** slow. Windows pipes must be used if the problem remains. Open the skasoft.ini file and find the **[LockOptions]** section.

Add the following line:

```
CommunicationMode=2
```

## 3.8 Security System Update for FEM-Design and WIN-Statik

Requires **FEM-Design** versions: 3.5x - 4.xx and **WIN-Statik** (16 and/or 32 bits) version <5.0.



*Note! The Security System Update is **only to be done** if the user has previously used the License Server version <1.1. To enable older versions (above) of FEM-Design and WIN-Statik to use the **License Server** version 2.x+ the programs have to be updated. Old program files will be replaced with newer files during the updating. A program reinstallation is not required in this case.*

Click on the **Security System Update** link menu. The dialog shown below will then appear. Depending on chosen installation language, the list **Available programs** will show one or more programs.

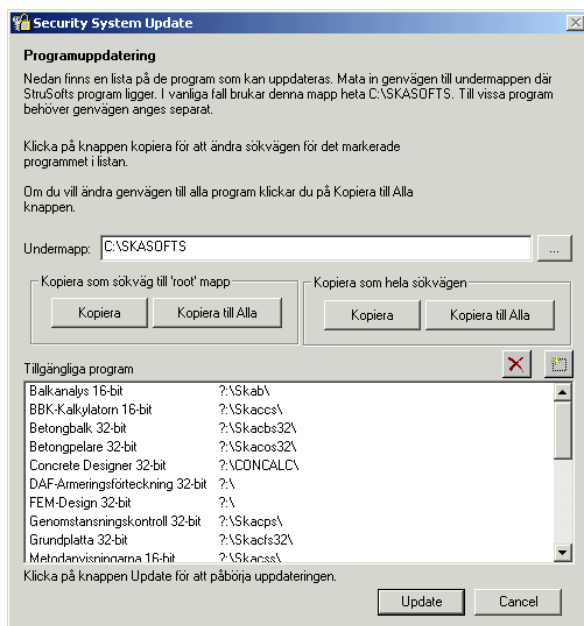


Image 51. Security System Update.



- *The subdirectory is by default?:\...\SKASOFTS, where the? is the root drive.*
- *If another directory has been chosen then that directory must be used instead of the?:\...\SKASOFTS directory.*

Choose the path to the subdirectory for the programs that will be updated.

Select the programs that will be updated in the list and then choose **Copy**. Now the chosen path will be copied to the selected items in the list.



***Subdirectory and program directory is the full program path.***

*The user must, if the **program directory** is not the suggested one, choose the correct directory and then use **Copy** (as whole directory) instead of **Copy** (as root directory); see image 51.*

Choose the **Copy to All** button if the same directory applies to all programs in the list.

- The programs that are not to be updated should be unselected. To unselect/deactivate a program: select it in the list and click on **Delete** button.
- To select/activate a program in the list: select it first and click on the button **to the right** of the **Delete** button.

Choose the **Update** button to begin the updating process.

## 4 Local installation

A local installation means a single-user system, and all the installations are being done locally on that specific computer. The hardware lock is attached to that computer and a lockfile will also be installed on it.

At a local installation the following components must be installed:

- Driver to hardware lock
- Lockfile

### 4.1 New installation

Click on the **Local installation** button in the **Security System** dialog box under the **Installation** tab.

#### 4.1.1 Local installation: 1/4, Driver to hardware lock

To the right in this dialog box the user can see if a driver to the hardware lock is already installed, and to the left there is some general information.

- Click on the **Install** button.
- Click on **Next**.

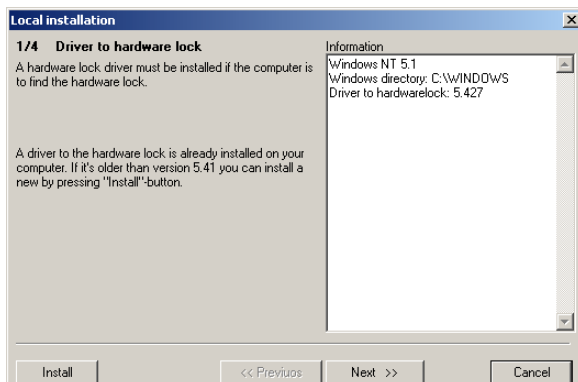


Image 52. Local installation, 1/4, Driver to hardware lock.

## 4.1.2 Local installation: 2/4, Hardware lock

- Attach the correct hardware lock to the parallel port of the computer.
- A **correct hardware lock is found** will be seen to the left of the dialog box if everything is in order, and the user can see the number of the hardware lock to the right.
- Click on **Next**.

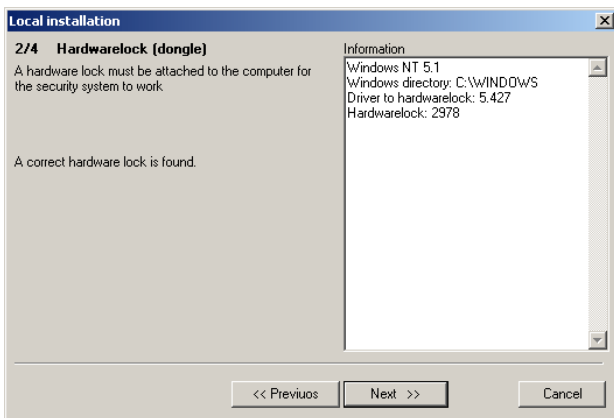


Image 53. Local installation, 2/4, Hardware lock.

## 4.1.3 Local installation: 3/4, Lockfile

- Insert the floppy disk labelled *Lockfile, Hardware lock* on which the lockfile (SKASOFT.LOC) is located.
- Set **Path to lockfile (disk drive)**.
- Click on the **Install** button and then on **Next**.

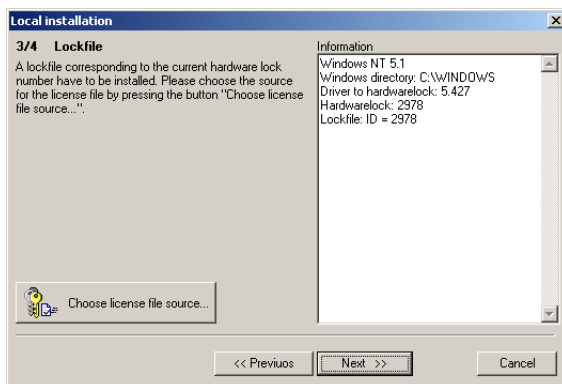


Image 54. Local installation, 3/4, Lockfile.

## 4.1.4 Local installation: 4/4, End

- The installation is now completed and you can click on **Exit**.

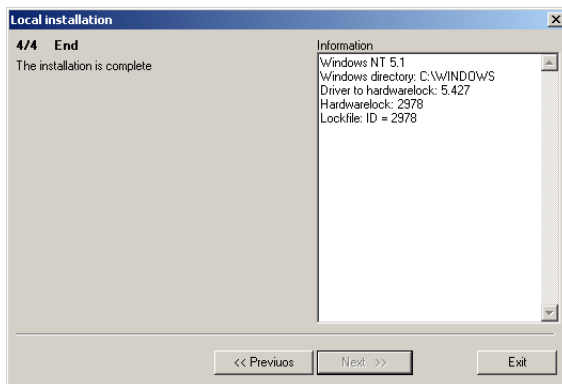


Image 55. Local installation, 4/4, End.

## 4.2 Update

Updating the security system means updating the lockfile. This must be done when the user has purchased new licenses, and/or a new lockfile has been sent to the user on a floppy disk (labelled **Lockfile, Hardware lock**) or via e-mail.

- Start the installation program and choose the **Update** tab in the **Security System** dialog box. Click on **Update lockfile**.
- Set **Path to lockfile (disk drive)** in the **Update lockfile** dialog box and click on **Install**.
- A dialog box now tells the user that the lockfile has been installed. Click on **OK**.

### 4.3 Re-installation

- Uninstall the driver to hardware lock (**Sentinel System Driver**) from the **Control Panel**.
- Perform a new installation according to chapter 4.1.

## 5 Information on the Security System

The **Network installation** of the security system consists of the two following parts:

- **Server installation:** The following components are to be installed on the server (preferably a computer that is always running).
  - Driver to hardware lock (the hardware lock is attached to said computer)
  - Lockfile
  - License server program (**StruSoft License Server**)
- **Client installation:** Installation on the clients that are connected to the server. The **License Server** program must be running if the installation is to be successful.

A **Local installation** means a single-user system and all the installations are being done locally on that specific computer. The hardware lock is attached to that computer and a lockfile will also be installed on that computer. The following components need to be installed at a local installation:

- Driver to hardware lock
- Lockfile

A more thorough description of concepts that are important for understanding the security system installation will follow below.

### 5.1 Driver to hardware lock

A hardware lock driver must be installed in order for the computer to find the hardware lock. The driver should be of version 5.4 or a more recent one. The driver can be installed from StruSoft's homepage or a floppy disk labelled **Sentinel drivers, Hardware lock** (normally this is not distributed) if there is no CD player on the computer. Run the **Install**-program from the floppy disk (e.g. A:\install).

## 5.2 Hardware lock

The hardware lock (*Sentinel SuperPro*) is the most essential part of the security system and it must be attached to the parallel port/ USB port of the server computer. The client computers do not need neither a hardware lock nor to install a lockfile at a network installation. The hardware lock is of course attached to the actual computer at a local installation. There might in some cases be several locks on a computer. The locks should be transparent but this is not always the case. We suggest the user to try and change the order of the locks if a lock is not found. We suggest that our lock is put first (closest to the computer). The hardware lock has a unique **ID** number (3-4 digits). This number is printed on the lock and will, if the lock is found, also be shown in an information box during the installation. The user should enter this **ID** number when contacting **Structural Design Software**.



*The drivers must be installed **BEFORE** the lock is attached to the USB port when installing USB locks.*

## 5.3 Lockfile (SKASOFT.LOC)

The lockfile is to be installed on the computer where the hardware lock is attached (that is on the server at a network installation). The file must be in the Windows folder which the installation program sees to automatically. The file must not to be found anywhere else. There is one lockfile for every hardware lock and the lockfile is distributed on a floppy disk labelled *Lockfile, Hardware Lock*. The floppy disk has an **ID** number printed on it, and this number must match the **ID** number on the hardware lock. The user can also see the **ID** number of a hardware lock in the information box during the installation.

If an error message, saying that the lockfile is not correct, appears during the installation it might depend on the following:

- the wrong lock was attached to the computer,
- the wrong lockfile has been sent to the user,
- the user has been trying to use a local system lockfile for a network system.

The user must, if the lockfile has been distributed via e-mail, save the file either on a floppy disk, on the hard drive or somewhere on the network where he has access to it. Change in **Path to lockfile** during the installation step of the lockfile.

The user must perform a license update of the security system when having bought new licenses and received a new lockfile on a floppy disk. The **License Server** program does not have to be re-started after updating the lockfile if the user uses the **piPeX Client** at a network installation.

## 5.4 SKASOFT.INI

**SKASOFT.INI** is an initiation file that is created when installing the system and it is located in the Windows folder. The file might contain settings from a number of different Structural Design Software programs, and it is therefore divided into different sections. The section concerning the security system is called **[LockOptions]** or **[Locking]**. The path to the licensefile is written in **[LockOptions]**.

### Localt locking system

### Network locking system

---

[LockOptions]  
Network=N

---

[LockOptions]  
Network=Y  
LicenseServerName=Servernamn  
LicenseServerPort=Serverport

## 5.5 Test

The user can run a test program, to see where and why the error occurs if the security system does not work as it is supposed to do. The user must, in a single-user system, run the **Local installation** program; run the test program for **Network installation** in any other case.

## 5.6 Other

### 5.6.1 Shortcuts

The individual **Structural Design Software** programs can either be installed locally on every computer or in a folder that is shared in a network. Programs that have been installed to a network only generate shortcuts on the computer where the installation was made. These shortcuts must be set manually on the client computers.

### 5.6.2 Novell-network

Network systems using a Novell server cannot use the Novell server as a license server computer. The license server program must be located on a computer having Windows 95, Windows 98, Windows NT, Windows ME, Windows 2000 or Windows XP as the operating system.

The user can for example use one of the clients in the network. This computer must not be turned off if you want the security system to be working.

Another great way to create shortcuts when doing a network installation of a program is to do as seen below:

1. The user creates a program group (a folder) e.g. **I:\StruSoft\SkasoftS\WINStatik** on the computer where the programs are being installed centrally.
2. Create and save the program shortcuts in this folder.
3. The user now only has to create a shortcut to the **WINStatik** folder on the clients using the above seen path.

All of this is built on the presumption that the clients have the same folder system as the computer, on which the programs were installed, does. The administrator is free to change shortcuts, create new or remove old ones without having to change any settings on the clients if the shortcuts have been made as described above.

## 6 FAQ

**Question:** Why do all programs start in DEMO-mode?

**Answer:** The security system was not installed /configured correctly. A license for the program might be missing (or all licenses are busy). Also check that the programs' shortcuts point in the right direction.

**Question:** Why does some installed programs start while others do not?

**Answer:** This might depend on the lockfile lacking certain programs/versions, in which case the user can contact the retailer for an updating of the lockfile. The user must have in mind that the shortcuts still might point at older installations. The user must then update the shortcuts and remove older versions of the program.

**Question:** The company name does not show on the printouts. What do you do?

**Answer:** This is taken care of on each client. Open **SKASOFT.INI**, which is found under the client's Windows folder. In that folder there is a section named **[COMMON]**. If you don't have the **[COMMON]** section then you must create it in an optional space in the **INI**-file. The information must then be supplemented the following way:

```
[COMMON]
username=xxx
company=xxx
```

Write user name and company name above. In some programs this information will be written in the head of each program.

**Question:** The following error message is shown when trying to run a program on NT4: The procedure entry point **\_lc\_collate\_cp** could not be located in the dynamic link library **MSVCRT.dll**. What do you do?

**Answer:** Install service pack 6; if this doesn't help then the system files must be updated. This can be done if the user downloads, and

runs, the **MDAC\_TYP** patch from either Microsoft or from StruSoft's homepage under **Updates/Security System**.

**Question:** **ODBC Drivers are missing at a License Server 2.0 installation. What do you do?**

**Answer:** **License Server 2.0** uses its own access-database for handling statistics and therefore requires the correct drivers for that database. The drivers can be installed from our web under [**Updatings**]-[**SecuritySystem**] or from the CD (under **Program group: SecuritySystem**).

**Question:** **I have been upgrading my old license server to the License Server 2.0 and performed a client installation, but the programs can only be run in DEMO-mode. Why is that?**

**Answer:** Earlier installed StruSoft-programs must be updated since *they believe* that the old license server is in use. See chapter 3.8 in the manual.

**Question:** **The programs lose contact with the hardware lock all of a sudden. Why?**

**Answer:** **Network lock:** Sudden problems when running programs that have functioned previously usually depend on disruption in the local network. Make sure that server name and port are set correctly. The error can also occur if the license server program stops running; e.g. if the server was shut down. If a program has recently been updated /installed, then something might have gone wrong during the installation. **Local locks and network locks:** The hardware lock might be defect; try with **Sentinel Medic** on the CD.

**Question:** **The programs can be run on the server but not on the clients; why?**

**Answer:** It can be a number of reasons, e.g.:

- disruption in the network,
- the clients' paths are incorrect,
- the server name is incorrect,
- the clients are using the wrong port.