

Super Pro Net™ Network Key Installation and Operation

Installation

Overview

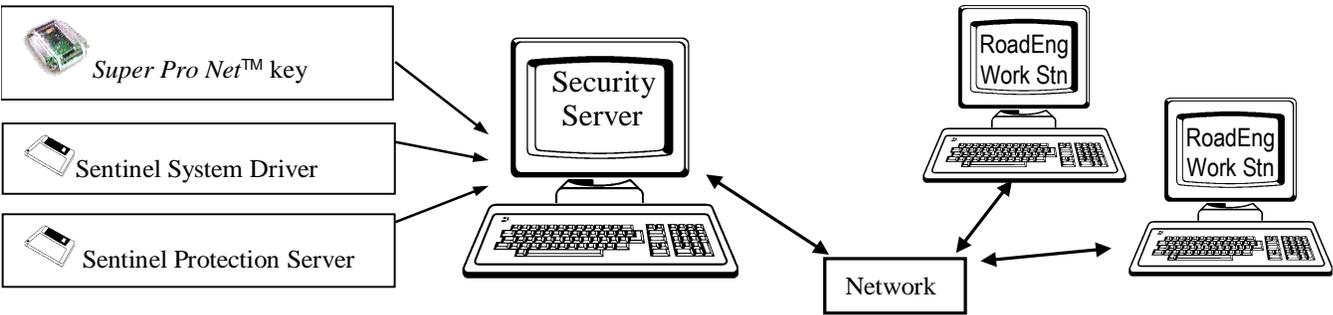
RoadEng software can be protected against unlicensed use on a network with [SafeNet](#)'s Super Pro Net™ hardware key. The installation of the Super Pro Net™ key and associated software is described in this document.

Installing the network hardware key on one computer (the *security server*) allows multiple users to run RoadEng on other networked workstations. The key is programmed to allow a limited number of concurrent users.

In addition to the Super Pro Net™ key, you will need to install supplemental software.

- Sentinel System Driver
- Sentinel Protection Server

See the diagram below:



Installation

1. Select the Security Server computer.

Choose a computer (*Security Server*) where the *Super Pro Net*TM key will be attached (on a USB port). This computer is usually a network file server but it can be any computer that is always connected to the network.

This computer should be running **Windows XP** or later (server or desktop versions are OK). SafeNet does provide support for some Linux versions, but we have not had success with any Linux OS to date.

2. Install the drivers (services) on the Security Server computer.

The *Sentinel System Driver* allows software to access the key via the USB port. The *Sentinel Protection Server* manages licenses on the key over the network.

The *Sentinel Protection Installer* will install both of these services. The RoadEng install CD contains a link to run this installer: *Install Security Key Drivers*. You may also download the latest installer from our web site:

http://www.softfree.com/anonyftp/V6_SECURITY/SentinelProtectionInstaller.exe

or direct from SafeNet:

<http://sentinelcustomer.safenet-inc.com/sentineldownloads>

You only need to install this software on the *Security Server* computer; do this before you attach the key.

3. Install the hardware Key.

Attach the key to the USB port of the *Security Server* computer.

4. Install the RoadEngTM software one or more networked workstations.

5. Setup *NetKey.ini* file on each workstation

The *NetKey.ini* file tells RoadEng™ to look for a key on the network and where to find it. You need to edit this file and make sure it is updated on all network workstations where RoadEng™ is installed.

NetKey.ini can be found in the RoadEng *Configuration and Layouts* folder, usually **C:\ProgramData\Softree\RoadEng**. You can open this folder from the *Terrain* module (included with all RoadEng™ packages) by selecting menu *Module-Setup, Install* tab and then pressing the *Explore* button.

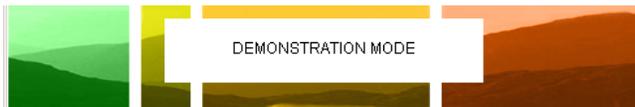
Edit the **NetKey.ini** file(s) as below:

```
[RoadEng]
NetDepartmentName=
NetKey=SuperProNet
NetKeyHost=<IP address or name of Security Server>
network=1
```

Each workstation will contain an identical **NetKey.ini** file; once you have edited one, copy it to all other workstations.

Troubleshooting

If the RoadEng™ software starts in *Demonstration Mode* or if it displays a *Demonstration Mode* error, the key or *Security Server* software is malfunctioning. The following items may help you pinpoint the problem.



Identifying Network Problems

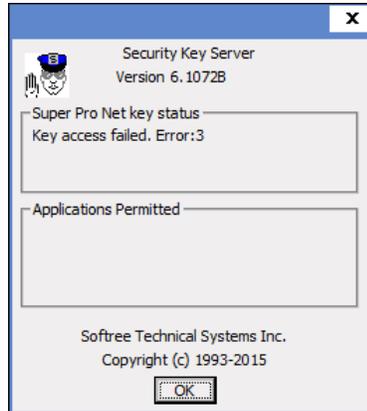
When a network problem is encountered the first step is to make sure the *RoadEng Net Key Server* (**KeySrv32.exe**) is running on the RoadEng Workstation. The *RoadEng Net Key Server* must be running for a RoadEng application to access the key over a network.

To determine if the *RoadEng Net Key Server* is running, look in the task bar for the icon shown below.



If it is not running, Network=1 is not set in your *NetKey.ini* file in the RoadEng *Configuration and Layouts* folder (see installation step 5 above).

A mouse click on the *RoadEng Net Key Server* icon allows you to read any error messages in the status box.



The most common causes of trouble.

6. The Workstation and Security Server are not properly connected over the network. If the network is down or malfunctioning the Workstation will not be able to query the key on the *Security Server* computer.
7. The key is not plugged in to the USB port of the *Security Server* computer.
8. The *Sentinel Protection Installer* has not been installed properly on the *Security Server* computer (see step 2 above). Make sure that the *Sentinel Keys Server* and *Sentinel Protection Server* services are both running. Services can be viewed from the Windows Control Panel.

 Sentinel Keys Server	Manages Sentinel Hardware keys atta...	Started	Automatic	Local System
 Sentinel Protection Server	Manages Sentinel SuperPro and Ultra...	Started	Automatic	Local System

9. *Network=1* is not set in your *NetKey.ini* file in the *RoadEng Configuration and Layouts* folder (see step 5 above). In this situation the *RoadEng Security Key server* will **not** be running on the Workstation.
10. *NetKeyHost=< IP address or name of Security Server >* has not been set or is incorrect in your *NetKey.ini* file in the *RoadEng Configuration and Layouts* folder (see step 5 above). For example “*NetKeyHost=192.168.0.107*”. If the *Security Server* does not have a static IP make sure you use the computer network *name*.
11. Too many people are already running RoadEng, license limit exceeded (error 70 shown in *RoadEng Security Key Server* status). You must wait until someone else using RoadEng relinquishes their license. See *Monitoring Key usage* below.

If you are not actively using RoadEng, save your work and exit all RoadEng modules to release your license for others to use.

12. When All Else Fails...

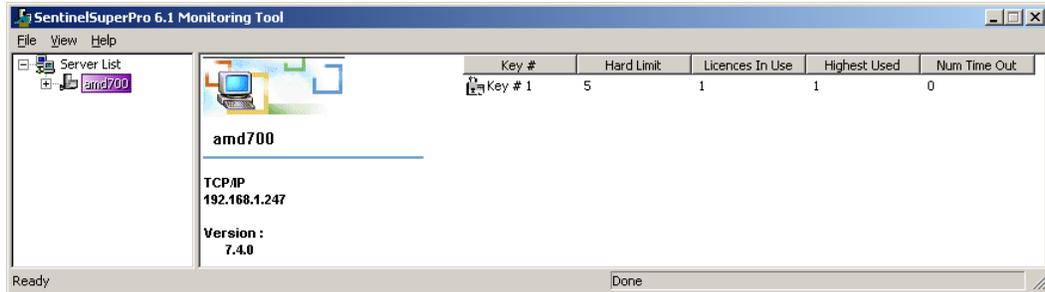
There is an extensive adobe acrobat document on your release CD (*Drivers/SProNet\guide\SafeNet_Sentinel_EndUser_Guide.pdf*) that covers many topics not discussed here.

Monitoring Key usage

There are two ways to monitor key usage

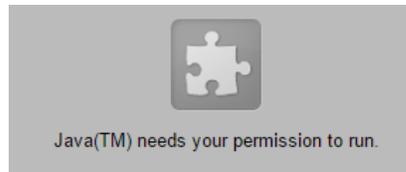
1. Run Monitor.exe

On the RoadEng install cd, **drivers\SProNet\monitor\monitor.exe** is a utility that will tell you where your key is on the network (provided the security server software is running), the number of licenses on the key and how they are being used. Expand the *Server List* tree on the left and select a key to display information.

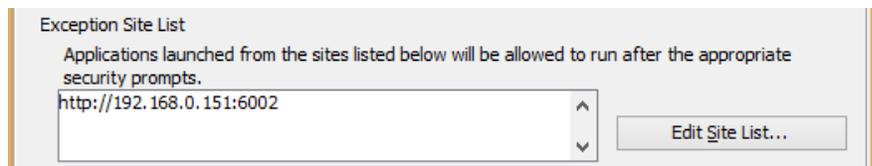


2. Run a java app included with the driver

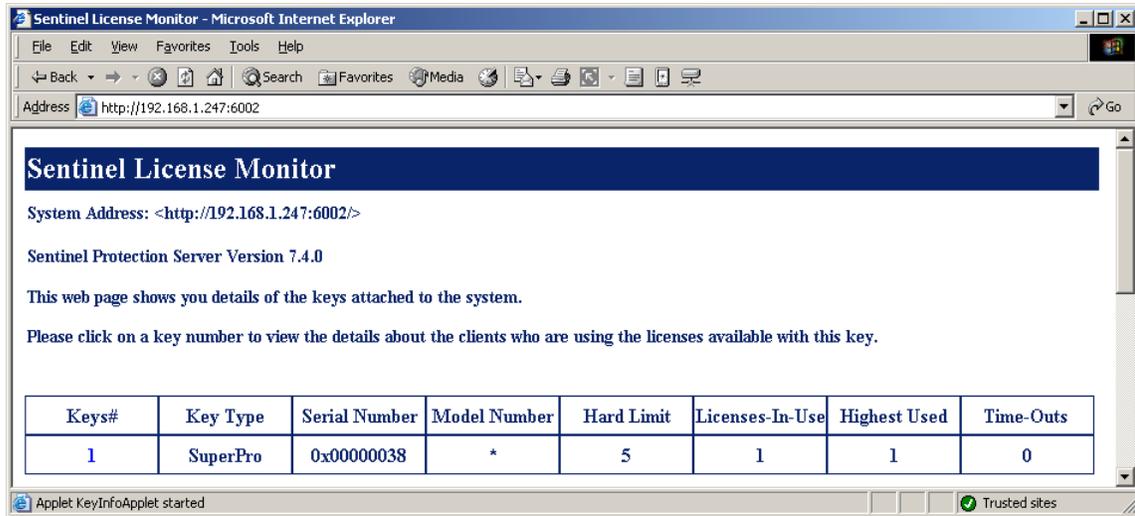
Use your browser; type the IP address of the *Security Server* computer followed by “:6002” (a port number) in the address bar. This runs a Java application, however, this application is old and will not be permitted to run on the latest versions of Java.



To overcome this issue, you will need to provide an exception (once). Open your control panel and then the *Java control panel*; select the *security* tab and press the button to edit the *Exception Site List*. Add your address as shown in the screen capture below (note inclusion of “**http://**”):



There will be other security related prompts depending on your browser; and then you will see the *License Monitor* in your browser:



Changing Network Keys and Removing the Security Server

Changing the Key

To change hardware keys (for example during a version upgrade), make sure no one is using RoadEng software, and simply replace the key. The server software will detect the change.

Removing the Security Server

If you no longer need to host a key on the security server computer, use the Windows Control panel, *Programs and Features* item to remove *The Sentinel Protection Installer*. You can also re-run the installer software (step 2 in the installation instructions above) and follow the prompts to un-install.