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CDEGS

SES Software

Network Installation

Version 17.0

2021

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Installing the Network Software Protection Key

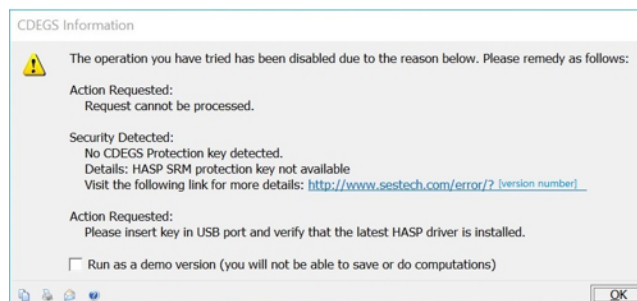
1. Introduction

The network version of SES Software must be installed in two stages. The workstation portion of the software must be installed at the end-user site, and the server components must be installed on the host server by a network administrator. This document describes the installation and configuration procedures for the server components of the software. The installation of the client part of the software proceeds through the standard SES Software installation program; simply select **Use Network License** in the **License Type** dialog.

The server installation is quite simple, and comprises only the licensing components of the software, namely:

- A hardware security key and associated device driver.
- A service that establishes a bridge between the client applications and the hardware key.
- Optional monitoring tools.

It is very important to secure the software license protection key at all times, and highly recommended to have it insured¹. If the key is missing or defective, the message shown to the right is displayed every time there is an attempt to access a protected software package or utility. It is imperative to communicate with SES prior to returning a key for any reason (upgrade, replacement, etc.), and to use an approved courier service, such as Federal Express or UPS, for the shipment.



2. For a Quick Start...

For installation scenarios involving a single SES Software network software protection key, installing and configuring the network key is straightforward. The basic steps are as follows:

1. Select any computer on the network on which to install the software license protection key, the *NetHASP License Manager (LM)*, *Sentinel LDK Run-time Environment* driver. We recommend you choose a network server, since this is less frequently rebooted, but any computer works just as well.

¹ SES offers an insurance service that protects your investment and, in case of loss or theft, ensures the prompt replacement of your key. If you have an active support service, then you automatically have this insurance. If you have any questions, please contact SES.

2. Install the *NetHASP License Manager* (LM) on that computer. To do this, run the setup file *lmsetup.exe* from the **Tools | NetHASP | Server | win32** folder under the distribution folder. By default, this folder is called Setup and is located under the **SES Software Documents** folder. You can open this last folder using **Start | All Programs | SES Software | Program Folders | Documents Folder**. If the **Setup** folder is missing, please rerun the full installation of SES Software to generate the distribution folder.
3. Install the *Sentinel LDK Run-time Environment* driver: run *HASPUserSetup.exe* from the **Tools | HASP | Install** folder on the SES Software distribution folder.
4. Connect the software protection key and activate the network key from one of the client computers (see [Software License Protection Key – Updating the Expiration Date](#)).

 Note


SES Software 17.0 supports Sentinel network key, you could skip the above step 2 if you have a Sentinel network key.

You may go to the page <http://localhost:1947/int/devices.html>² to verify if your key is a Sentinel network key, if so, it should list a HASP HL Net key for the Vendor 57923. If you received your key before April 2021, you need to update it as well, in order to use it as a Sentinel network key. SES recommends you to upgrade it since it is more fast and easy to manage your license.

 Note

The license can be used only for SES Software 17.0 and higher version after upgrading. Refer to the following section (“How to upgrade your key”) for more details. If you have an old NetHASP key, please contact our sales department for a replacement of your key.

Refer to the following section, [Server Installation of a Sentinel network Key](#), for more details on the available installation and configuration options when installing a Sentinel network key.

 Note

The following description only applies to the legacy NetHasp Key.

This technique uses general broadcasting to allow the clients to discover the license server. If you are configuring for multiple network keys, then the IP address method should be used instead of broadcasting since you will want each client to be able to acquire a specific license that is available on the network; broadcasting does not offer this level of control. Please see the section [Using SESNetKey to Configure Network Keys](#) for help in doing that.

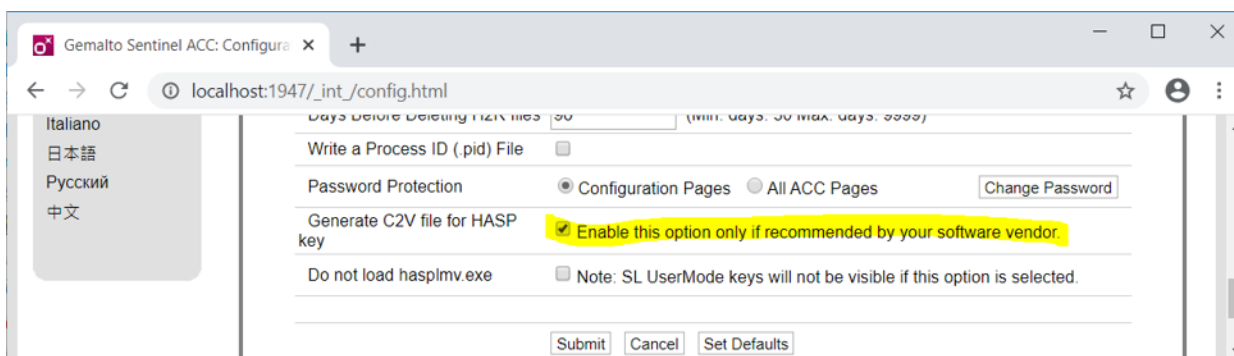
² Access to Sentinel Admin Control Center requires the installation of Sentinel LDK Run-Time Environment: HASPUserSetup.exe. The driver is installed at the same time.

To install more than one network key, repeat Steps 1 and 2 above for each key, using a different server for each key. Next, configure the clients to use those keys, as described in the section *Using SESNetKey to Configure Network Keys*.

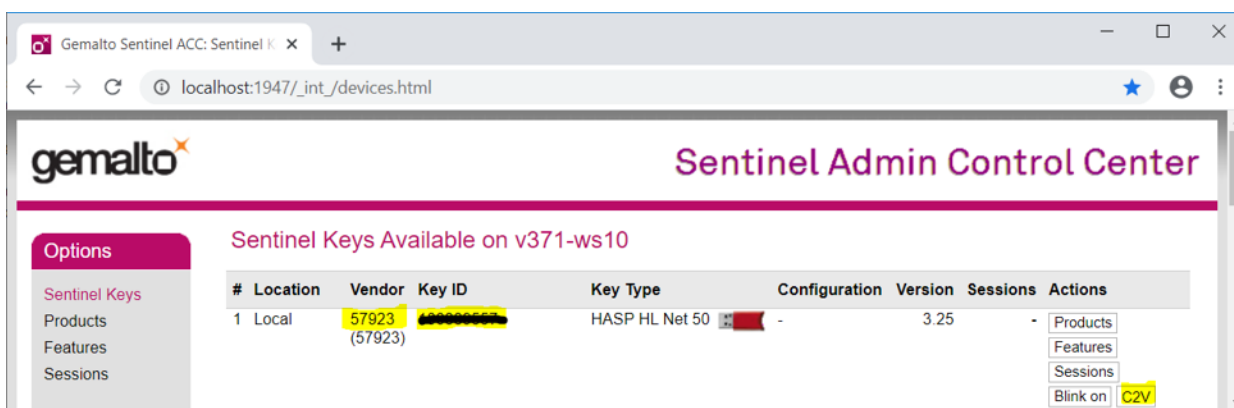
Refer to the following section ([Server Installation of a NetHasp Key](#)) for more details on the available installation and configuration options when installing a network key.

3. How to Upgrade your Key

1. Go to http://localhost:1947/_int_/config.html³, and for the setting **Generate C2V file for HASP key**, select **Enable this option only if recommended by your software vendor**.



2. Click **Sentinel Keys** under **Options** or go to http://localhost:1947/_int_/devices.html⁴, locate the SES key with Vendor 57923,
3. Click the **C2V** button to save your key's c2v file, and send us the file by [email](#).



4. After receiving the c2v file for your key, SES will send you a license file to disable your current NetHasp license, and a V2C file to upgrade your key with Sentinel license.
5. Click **Update/Attach** to go to the **update/Attach** page.
6. Click **Choose File** to select the V2C file from SES.
7. Click **Apply File**.

^{3,4} Access to Sentinel Admin Control Center requires the installation of Sentinel LDK Run-Time Environment: HASPUserSetup.exe. The driver is installed at the same time.

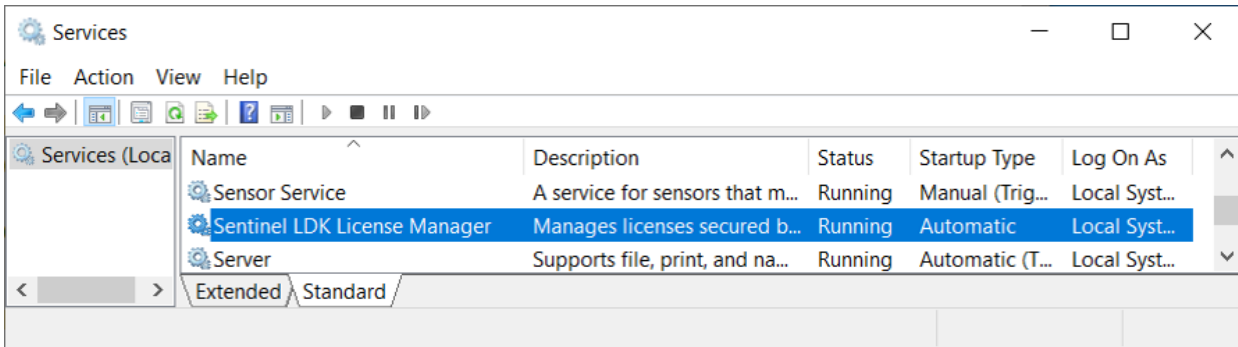
Server Installation of a Sentinel network Key

4. Server Installation

1. Start the program *Tools | HASP | Install | HASPUserSetup.exe* from the distribution folder.
2. Follow the wizard instructions.
3. Insert SES USB red dongle in the USB port on your server. If your server is a virtual server, you could use USB over IP device to mount the dongle to the server.
4. The red LED on the USB Dongle should light up.

5. Server Management

Navigate to **Control Panel > Administrative Tools > Services** and make sure that the **Sentinel LDK License Manager** service is running.



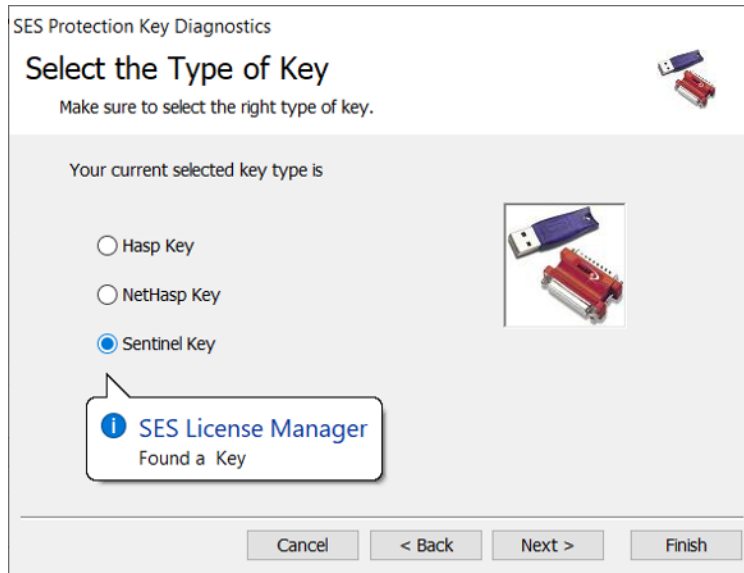
The Sentinel **Admin Control Center** allows you to check which clients are currently connected to the server PC and using the products. This can be accessed by going to <http://localhost:1947>⁵ in any browser. The sessions page will show which clients are using licenses.



⁵ Access to Sentinel Admin Control Center requires the installation of Sentinel LDK Run-Time Environment: HASPUserSetup.exe. The driver is installed at the same time.

6. Client configuration

1. Run SESLicenseManager from SES Software shortcut (**SES Software | System | SESLicenseManager**).
2. Click the **Check** button.
3. Select **Sentinel Key** and follow the wizard instructions.



Note

The **Sentinel LDK License Manager** uses port 1947 for communications - so please ensure that the port is open and that the program itself is allowed through the firewall.

Server Installation of a NetHasp Key

The installation of the NetHasp licensing system involves the following steps:

- Installation of the License Manager and of the device driver for the hardware key.
- Configuration of the License Manager.
- Configuration of the clients.

In a network where more than one key is installed, this last step requires special considerations, as described in the section entitled [Using SESNetKey to Configure Network Keys](#).

7. Installing and Configuring the License Manager

7.1 Installation Considerations

The License Manager can be installed on any *Windows* platform. The License Manager should be installed as a service – thereby avoiding the need to log into the server for the License Manager to be operational.

The *HASP License Manager* can be installed on a virtual environment only if the virtual server supports USB, meaning that the key server is able to detect the *SafeNet HASP* key in the device manager.

For better performance, please don't overload the license server, make sure there is always one physical core to take care of background service calls; this will allow the license service to continue to operate even if the other server cores are overloaded.

7.2 Configuration

You can modify the behavior of the License Manager in two different ways:

1. *By editing the configuration file `nhsrv.ini`*. The syntax of this file is described in the file **Tools\NetHASP\Server\win32\nhsrvw32.hlp** in the distribution folder, under the topic **NetHasp License Manager Configuration File**. If a configuration file is customized, it should be placed in the same folder as the installed License Manager executable file (`nhsrvw32.exe`). A sample configuration file is available at **Tools\NetHASP\Server\nhsrv.ini**.
2. *By providing command line switches when starting the license manager*. The topic **Command-Line Switches** in the file **Tools\NetHASP\Server\win32\nhsrvw32.hlp** in the distribution folder gives a complete list of the available command line switches.

Usually, the default configuration of the *HASP License Manager* is satisfactory. The settings that are most often changed are:

- *The communication protocol*. By default, NetHASP tries IPX, NetBIOS and TCP/IP. For greater efficiency, you can restrict this to one or two protocols. This is better done through the user-interface of the license manager.

- The port number used to communicate with the clients under TCP/IP. By default, this is 475. It can be set through the **portnum** command-line switch.

7.3 Installation Steps

To install the **HASP License Manager**:

1. Start the program *Tools\NetHASP\Server\win32\lmsetup.exe* from the distribution folder.
2. Follow the initial steps of the wizard until prompted to select an **Installation Type**.
3. Select the **Service** option to install License Manager as a service with default settings. It is important that you do not select the **Application** option.
4. Select a directory and program folder for the License Manager, and click **Next**. The License Manager will be installed.
5. You may be prompted to install the HASP device driver. If so, select **No**.
6. Choose to start the license manager when prompted.

To install the key driver:

1. Start the **Sentinel Run-time Setup** *Tools\HASP\Install\HASPUserSetup.exe* from the distribution folder.
2. Follow the instructions in the wizard to install the key driver.
3. Plug your software license protection key into a USB port.
4. Your license manager is now ready for use.

Note

The **NetHASP License manager** uses TCP and UDP ports 475 and the **Sentinel HASP Run-time Environment** uses port 1947 for communications - so please ensure that these ports are open and that the program itself is allowed through the firewall.

8. Starting and Stopping the License Manager

When the License Manager is installed as a service the License Manager is configured to start automatically. To start or stop it manually:

- Start the **License Manager** from the **Services** applet. The **License Manager** is identified as **Hasp Loader** in the services list.
- Stop the **License Manager** from the **Services** applet.

You can also start and stop the **License Manager** from the **Monitor tool**. See the section [The Monitor Tool](#) for more details.

From time-to-time, the *HASP Loader* service on the license server may become overwhelmed. It is a good practice to periodically (say, once a week) restart this service. The restart operation will not be disruptive to ongoing runs and work in the GUI.

9. Using SESNetKey to Configure Network Keys

The utility *SESNetKey* that is installed with all SES Software packages helps to build a valid *NetHasp.ini* configuration file that enables the clients to communicate efficiently with the NetHasp license managers. It allows you to do two things:

1. Build a configuration file (*SESNetKey.ini*) that contains the network address of the servers to which the keys are connected and other information that helps identify the keys uniquely.
2. Once the configuration file is distributed to the clients and placed in their **SES Software Documents** folder, it allows the clients to select which of the keys to use from this point forward. It does that by generating a suitable NetHasp.ini configuration file according to the user's choice, and placing it in the **SES Software Documents** folder.

The following steps show how to run the *SESNetKey* utility to specify the IP address of the license manager servers.

1. Run *SESNetKey* from the **Start | All Programs | SES Software | System** menu.
2. Click the **Options** menu, and check the **Administration** menu item.
3. Click the **Edit | Add** menu item, or click the **Add** button on the toolbar.
4. In the **Key Properties** panel, enter CDEGS (or any other unique name) as the **Key Name**, select *NetHasp* as the **Key Type**, enter the IP address of the server as the **IP Address**, and then click the **Add** button.
5. Repeat Steps 3 & 4 for all remaining license manager servers.
6. Click the **File | Save** menu item to save, and then close *SESNetKey*.

Note

This procedure requires that SES Software be installed. Consult the **Installation Guide** for help on how to do that.

In the current version of the software, it is only possible to access a single hardware key⁸ at a given time. When more than one key is installed on the network, the user must select the key that should be queried when the SES programs perform a license check. It is important to notify users that they have to use the *SESNetKey* utility at least once, to specify the initial key that they want to use. Otherwise, the software may not run correctly.

The above steps are sufficient to configure a client computer to use one or more keys located on servers with specific IP addresses. It could be repeated on every client computer, but a simpler method is to

⁸ In the current version of the NetHasp key, it is not recommended to physically install more than one key in any server or workstation.

distribute the file *SESNetKey.ini* created by those steps to all other clients. This file is located in the **SES Software Documents** folder. Click **Start | All Programs | SES Software | Program Folders | Documents** folder to open **File Explorer** in that folder.

To configure a client computer when a *SESNetKey.ini* file is available:

- Copy the *SESNetKey.ini* file to your **SES Software Documents** folder (You can open it from **Start | All Programs | SES Software | Program Folders | Documents** folder).
- Run *SESNetKey* from the **Start | All Programs | SES Software | System** menu.
- Select the appropriate key server in the list and save the configuration using the **Save** option from the **File** menu.
- Exit *SESNetKey* using the **Exit** option from the **File** menu.

SES Software will be configured to use the network software protection server. If you have more than one network software protection server, and you need to be able to switch between servers, you may wish to create a shortcut to the *SESNetKey* utility for convenience. Consult the *SESNetKey*'s online help for details on how to use the utility.

10. Configuring the Clients

You can configure the way the SES programs communicate with the License Manager(s) by customizing the *NetHasp.ini* file. The most important parameters that can be modified in the *NetHasp.ini* file are:

- The network protocols that should be used when communicating with the License Manager. Note that this should be configured in the same way as for the server. This is set by the keys `NH_IPX`, `NH_NETBIOS`, and `NH_TCPIP` in the section `NH_COMMON`. For example, the following fragment of a *NetHasp.ini* file restricts the protocols to TCP/IP:

```
[NH_COMMON]
NH_IPX = Disabled
NH_NETBIOS = Disabled
NH_TCPIP = Enabled
```

- Whether or not to use broadcasting under TCP/IP. This is controlled by the key `NH_USE_BROADCAST` in the **NH_TCPIP** section.
- The IP Addresses (or host names) of the servers where the License Manager(s) to be queried for a license are installed. This is controlled by the key `NH_SERVER_ADDR` in the **NH_TCPIP** section. For example, the following fragment of a *NetHasp.ini* file instructs the client to look for licenses only on the **SES Software-Server** machine:

```
[NH_TCPIP]
NH_SERVER_ADDR = SESSoftware-Server
NH_USE_BROADCAST = Disabled
```

In principle, several servers can be specified simultaneously, although for the current version of the software, it is better to restrict every client to a single License Manager at a time. See the section entitled [Using SESNetKey to Configure Network Keys](#) for more details.

- The port number to be used under TCP/IP. This is controlled by the key `NH_PORT_NUMBER` in the **NH_TCPIP** section, and should be set to the same value as the corresponding license manager.

The customized *NetHasp.ini* file must be placed in the **SES Software Documents** folder of the clients for the customization to take effect.

If you have timeout and communication issues:

Try adjusting the following settings:

```
[NH_COMMON]
NH_SESSION = <Num>
NH_SEND_RCV = <Num>
```

where *<Num>* is a time in seconds.

- `NH_SESSION` sets the maximum length of time during which the application tries to establish communication with the **NetHASP License Manager**. The default is 2 seconds.
- `NH_SEND_RCV` sets the maximum length of time for the **NetHASP License Manager** to send or receive a packet. The default is 1 second.

11. Using SESLicenseManager to Configure Concurrent Runs

If you have a network license for N users (with $N > 1$), you may use SESLicenseManager to enable one user to run up to N cases concurrently on a single machine. This operation is referred to as reserving the license. At most one user can reserve the license in this way. When a user reserves the license, the seats that are reserved are not available to other users of SES Software using that same network license, until the license is *restored*.

It is important to make sure that no one else is using the network key when you use SESLicenseManager to reserve the license, since this operation will terminate the active sessions of all other users that are using that key.

The following steps show how to run the SESLicenseManager utility to reserve the license for concurrent runs.

 **Note**

To enable the **Concurrent Runs Configuration** feature in SESLicenseManager, you will need to add the line **ENABLE RESERVED KEY FEATURE=T** to the SESSECUR.INI settings file under the [GENERAL] section, as shown in the example:

```
[GENERAL]
Time-out limit=600
Use Default Protocols=F
Keep Alive=F
Maximum number of servers=1
Key Type=6
Query All Keys=F
Retry Count=-1
ENABLE RESERVED KEY FEATURE=T
```

The settings file can be found in the SES Software documents folder (C:\user-s\public\documents\ses software\17.0).

When you are no longer using this feature, you should remove the line from the settings file, or set its value to 'F', in order to maintain the performance of the network licenses.

1. Run SESLicenseManager from the **Start | All Programs | SES Software | System** menu.
2. Click the **File** menu, and click the **Concurrent Runs Configuration** menu item.
3. Click the arrows to increase the **Number of Concurrent Runs**, enter your phone number (or any information allowing other users of the network key to identify you) in the **Notes** textbox, and then click on the **Reserve** button.
4. Click **Yes** when the *Please note that if other SES Software applications are currently running with the key, they will be terminated.* Warning messages will show.

After reserving the license, you can use SESBat to run multiple concurrent runs. To do this, increase the **Number of Concurrent Runs** in the **Batch Options** tab of SESBat, and then start the runs.

Once the concurrent runs are completed, you should use SESLicenseManager again to release the license so that other users can use the key. To release the license:.

1. Run SESLicenseManager from the **Start | All Programs | SES Software | System** menu.
2. Click the **File** menu, and click the **Concurrent Runs Configuration** menu item.
3. Click on the **Restore** button to release the reserved license.

 Note

The **Restore** command can be used by any SES Software user on the network when the license is reserved, not only by the user who reserved the license. Again, you should make sure that no one else is using the network key when you use SESLicenseManager to restore the license, since this operation will terminate the active sessions of other users that are using that key. In particular, one should contact the user who reserved the license before clicking the **Restore** button because all concurrent runs will be terminated once you release the reserved license.

12. Using SESLicenseManager to Configure License Usage Logging

You can monitor usage of a network license by activating the *license usage logging* feature. When this feature is activated, the following information is stored in a log file when ending an interactive session:

User Name, Computer Name, Key Label, Application Name, Login Time/Date, Logout Time/Date, Total Usage Time (seconds)

The following steps show how to run the SESLicenseManager utility to configure license usage logging.

1. Run SESLicenseManager from the **Start | All Programs | SES Software | System** menu.
2. Click the **File** menu, and click the **License Usage Logging Configuration** menu item.
3. Click (...) to select a network shared folder, or type the full path of a network shared folder in the provided box, and then click **OK** to activate the license usage logging feature.

To control the size of log file, you can add the `Max Size Of Log File` key in the `GENERAL` section in the `SESSECUR.INI` file, as shown below:

```
[GENERAL]
Max Size Of Log File= <MaxSizeOfLogFile>
```

where `<MaxSizeOfLogFile>` is the maximum size of the log file in kB (the default is 64 kB).

This should be done on all client computers that are to be monitored. The `SESSECUR.INI` file is located in the **SES Software Documents** folder (You can open it from **Start | All Programs | SES Software | Program Folders | Documents** folder).

When the license usage logging feature is activated, the log file `SESLicenseLog.csv` will be created in the network shared folder.

 Note

If the size of the log file exceeds *<MaxSizeOfLogFile>*, a backup file will be created with the name *SESLicenseLog.N.csv*, where *N* is the number of backups. For example, if *SESLicenseLog.000001.csv* exists, then the backup file name will use (000001) +1 for *N*, giving the filename *SESLicenseLog.000002.csv*. Also, a file named *T-CDEGSXXXXCurrentUsers.log* will be created in the same folder. This file contains the current user list for the network key *T-CDEGSXXXX*, where *T-CDEGSXXXX* is the key label.

13. The Monitor Tool

The Aladdin Monitor tool detects which **HASP License Managers** are currently loaded on the network, and for each of them, shows which workstations (if any) they currently serve. It can also be used to start or stop the Hasp License Manager service.

This tool is useful to help resolve installation problems, to verify if the License Managers are correctly loaded, and to monitor the usage of the licenses.

13.1 Installing The Monitor

To install the monitor, start the program **Tools\NetHASP\Monitor\install\aksmon32_setup.exe** from the distribution folder and follow the instructions. The program can be installed on the server, on the client or on both.

13.2 Using The Monitor

To start the monitor, start **askmon.exe** from your selected installation folder. When loaded, the program automatically detects the License Managers that are currently running over the network. The list of running License Managers appears to the left of the program.

You can obtain information about any License Manager by selecting it from the list; the information is displayed in the right pane, and includes the *ID* of the workstations that are currently serviced by the License Manager, the maximum number that can be serviced, etc. Consult the program's online help for more details.

Software License Protection Key

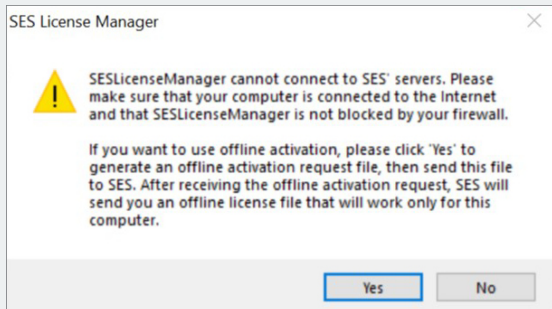
Updating the Expiration Date

14. SESLicenseManager Program

To protect our users, we have introduced a timed software license protection key which, if stolen, becomes ineffective after a period of time. It is easy to maintain: simply reinitialize it with the supplied SESLicenseManager program. The procedure for resetting the date on the protection key is described below. Please close all SES Software programs prior to your software license protection key. Make sure that you are running this procedure on the computer where the key is installed.

Note

SESLicenseManager must connect to SES's server over the internet while activating the software license protection key. If the program is unable to connect to SES, you will be offered to use offline activation with the following message, during the latter part of the activation process.



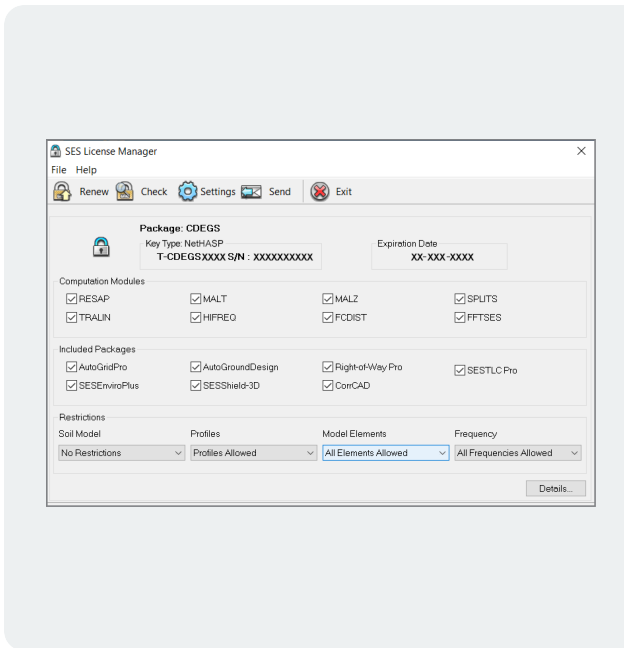
If you want to use offline activation, please send SES an offline activation request file by answering **Yes** and following the wizard.

After receiving the offline activation request, SES will send you an offline license file that will work only for the computer that generated the offline activation request file

Before you start, make sure the network key is setup properly. You will need a license file from SES (or a link to such a file) or the username and password of your support account.

1. In the **Windows Start Menu**, go to **All Programs**, then select **SES Software x...x** (where *x...x* is the version number of the most recently installed version of SES Software).
2. Once you have opened the SES Software menu, click on the **System** menu.
3. In the **System** menu, click on **SESLicenseManager**.

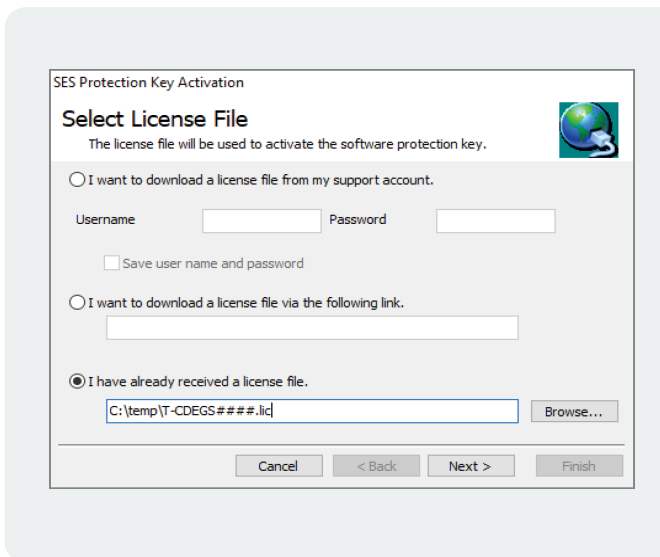
4. You will see one of the two screens that follow:



On this screen:

- The example shows a CDEGS package. The **Computation Modules Programs** panel displays which modules are enabled by your software license protection key. The **Included Packages** panel displays other packages included in your key.
- The type of soil model that can be used with your software package(s) is indicated at the left side of the **Restrictions** section.
- The remaining panels show the type of software protection license key detected and its expiration date.

- If you are presented with the screen above, select **File | Activate License**, or click the **Renew** button on the toolbar to open the **SES Protection Key Activation Wizard**. The **Select License File** screen appears if a software license protection key is detected, as shown below.
- Alternatively, you may be presented immediately with the **Select License File** screen:



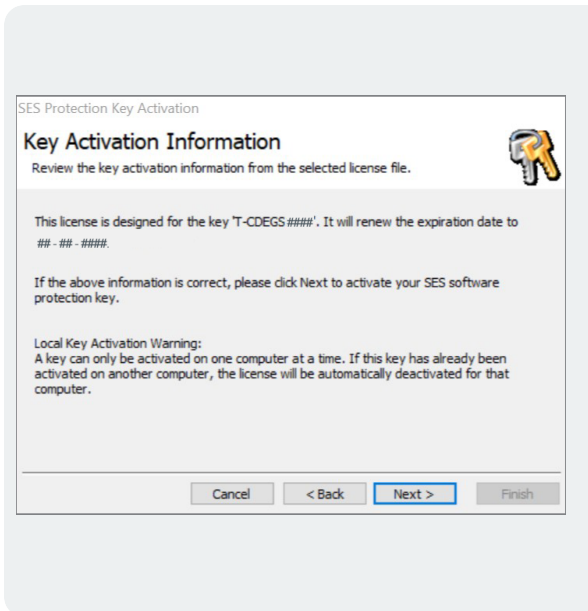
The **Select License File** screen allows you to select a license file to activate your protection key. There are three options:

- If you are under support, you can use your username and password to download your license file automatically.
- You may also use a temporary link provided by SES to download a license file.
- You can select a license file that has been provided by SES

5. Often, you will already have a license file, in which case you should choose the last option, **I have already received a license file**, and click the **Browse** button to go to the directory where you have placed the license file, which you should then select: it is a file named **T-CDEGS####.lic**, where **####** represents the ID number of your key. If you do not have a

license file, but have a link from SES or your support account username and password, then use these instead. Click on **Next**.

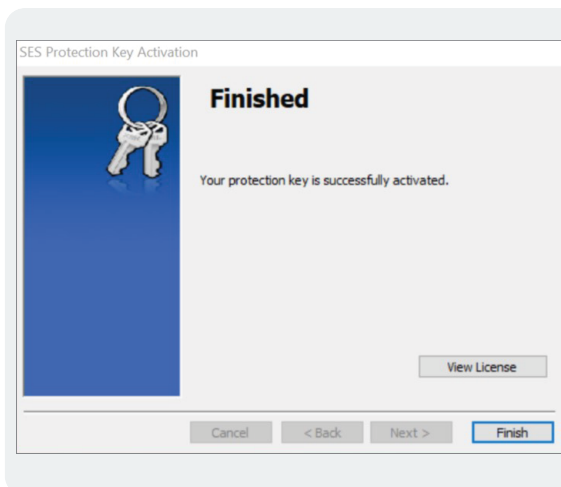
6. The software will attempt to communicate with SES. If this process fails, then you will see the screen shown at the beginning of this document. Follow the ensuing instructions to obtain an offline license file dedicated to the computer you are activating and start the activation process again with the offline license file, when you receive it.



The **Key Activation Information** screen shows the information in your selected license file. If the license file only contains expiration data, it will display only the new expiration date; otherwise it will display the full license information.

The example shown here is for CDEGS key **T-CDEGS####** and assumes that the **SES Protection Key Activation** wizard was launched to reactivate the key until the given date.

7. Read the information on the **Key Activation Information** screen. If you see anything wrong, then contact SES. Click on **Next**.



Your protection key is successfully activated. will be shown in the Finished step when the license file has been accepted.

You may use the View License button to view the license information.

At this point simply click on the **Finish** button and the window will close.

The software is now ready to be used.

By default, SESLicenseManager will automatically send the activation file to SES via email. Under certain circumstances, for example depending on your firewall settings or whether you have an email account set up on your PC, the file may fail to send. If this occurs, a notification will typically appear on your screen,

and it is requested that you email the activation report to SES manually at KeySupport@sestech.com. The activation report file, *KeyVerify.dat*, is found in the *SES Documents* Folder, which can be accessed by double-clicking the SES Software shortcut and then:

Program Folders | Documents Folder

You may also notice other files in this folder, for example *KeyDiagnostics.dat*, which is a diagnostic report that is sent to SES when the **Send** button is clicked from the SESLicenseManager main screen. *KeyOARquest.dat* contains the offline activation request that would be generated and sent to SES if offline activation was requested.

The software license protection key, as shipped, is valid for a limited time. The SESLicenseManager utility requires the license file to renew the protection key. SES will provide you with this license file (by email).

Activating the Protection Key on a New PC

Activation of the protection key is required before it can be used. The activation can be done from any client computer. Please follow the same steps as outlined in the topic [Updating the Expiration Date of the Protection Key](#) to activate the protection key.



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