



Net Key Installation



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Installation Instructions

Client Install

Install the *ApS-Ethos* software provided on each client computer.

On each client computer, go to the following file:

C:\Program Files\Ethos\Profiles\Boot.ini (for a 32-bit OS)
or
C:\Program Files (x86)\Ethos\Profiles\Boot.ini (for a 64-bit OS)

Check that the settings are exactly as below (it is important to put in the semi-colons where shown):

```
; Security key settings
Security Key Type=HASP NET (must be in capitals)
;Security Key Type=MEMOHASP
;Server Key Channel=15000
Server Key IP Address=NAME OF YOUR SERVER
```

Despite the name of the setting, Server Key IP Address must be the name of the server and not its IP address. The latter used to be acceptable, but does not work currently. If you do not know the name of server, browse to <http://localhost:1947> and get it from Sentinel Admin Control Center (see later sections of this document for more information).

Server Install

The server only needs the key driver installed.

If you have installed *ApS-Ethos*, you will find the driver installation file (*haspdinst.exe*) under Drivers\Sentinel in your **Ethos** installation folder, or you can download it from www.aps-ethos.com (HASP Driver).

Once you have found where the driver installation file is, you will need to:

- a) Unplug any HASP key connected to the computer (if connected).
- b) Open a Command Prompt (look under Windows System on Windows' Start menu or press Win+R then type **cmd**).
- c) Use the **cd** command (change directory) to go to the location where the driver file is located, e.g. **cd C:\Program Files (x86)\Ethos\Drivers\Sentinel**.
- d) Execute the command: **haspdinst.exe -i**
- e) When the installation has finished, plug the net key into the server and it should be detected.

Client Batch Install

You will need to have a preconfigured system for a 32-bit OS and a 64-bit OS respectively. On each preconfigured system, you will have an **Ethos** folder that contains all the files and settings to run *ApS-Ethos*.

Copy the full **Ethos** folder onto each client system, making sure the **Ethos** folder used matches the original OS.

C:\Program Files\Ethos (for a 32-bit OS)
or
C:\Program Files (x86)\Ethos (for a 64-bit OS)

Run the installer in each client system. You can use the command line to run the setup. These are some of the command line parameters you can use:

/SILENT, /VERYSILENT

Instructs Setup to be silent or very silent. When Setup is silent, the wizard and the background window are not displayed but the installation progress window is. When a setup is very silent, this installation progress window is not displayed. Everything else is normal so, for example, error messages during installation are displayed and the start-up prompt is displayed.

/NORESTART

Prevents Setup from restarting the system following a successful installation, or after a *Preparing to Install* failure that requests a restart. Typically used along with /SILENT or /VERYSILENT.

More details of the command line parameters can be found in the link below:

<http://www.jrsoftware.org/ishelp/index.php?topic=setupcmdline>

Trouble Shooting

Password and Version Activation Code

The first time you run *ApS-Ethos* you will be prompted to enter a **Version Activation Code**, also known as a **Version Password**. This code/password is linked to your key's **serial number** and the version of *ApS-Ethos* you are running. It is supplied with your key (included in the installation CD case if you have one).

After you have entered the **Version Activation Code**, or every time you run *ApS-Ethos*, a login screen will be displayed. The default login details are:

User Name: **System**
Password: **Password**

Number of net keys supported per server

Only one of our net keys will be supported per server. You can have different vendors' net keys per server.

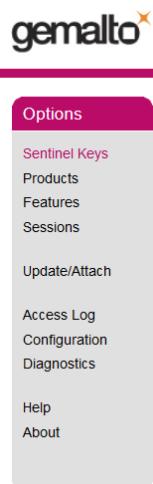
Checking the key

If you wish to check that the net key is being found, type the following on each client PC's internet browser:

<http://localhost:1947>

This should take you to the **Sentinel Admin Control Center**.

Select the **Sentinel Keys** option (top left corner). It should display a table containing all the keys it has found. Those displaying our vendor number of **62338** are keys supplied by CCT.



Reinstalling the driver

If the key fails to be detected on any PC, check that the HASP driver latest version has been loaded. These are the steps you need to follow to update the driver.

If you have installed *ApS-Ethos*, you will find the driver installation file (haspdinst.exe) under Drivers\Sentinel in your **Ethos** installation folder, or you can download it from www.aps-ethos.com (HASP Driver).

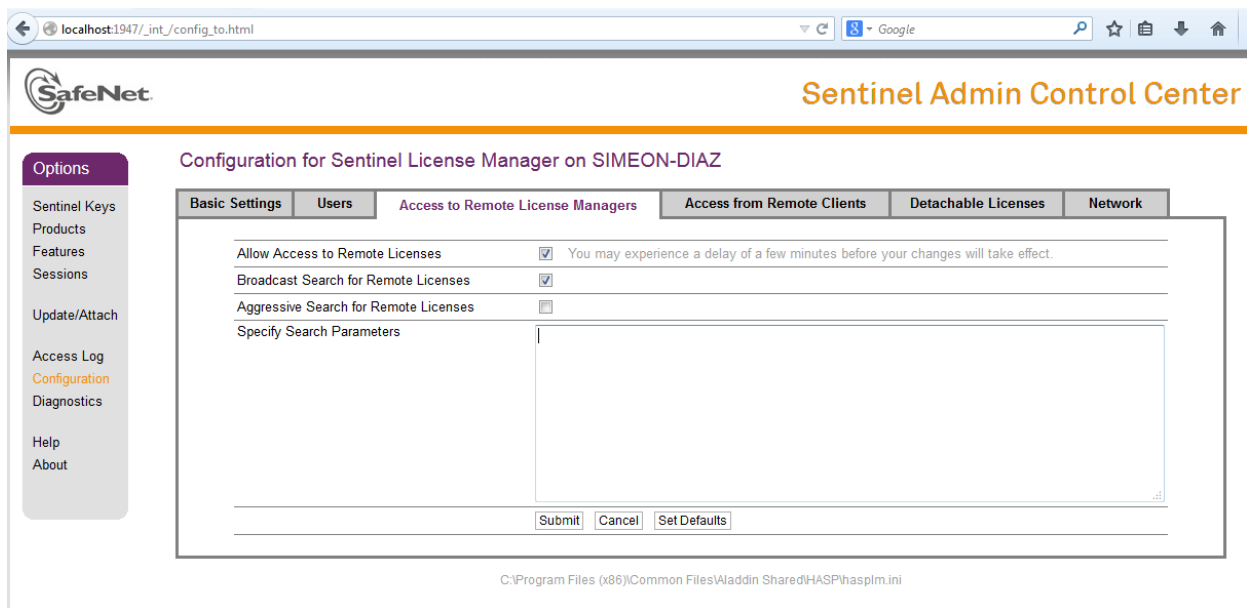
Once you have found where the driver installation file is, you will need to:

- a) Unplug any HASP key connected to your computer.
- b) Open a Command Prompt (look under Windows System on Windows' Start menu or press Win+R then type **cmd**).
- c) Use the **cd** command (change directory) to go to the location where the driver file is located, e.g. **cd C:\Program Files (x86)\Ethos\Drivers\Sentinel**.
- d) Execute the command: **haspdinst.exe -fr -purge**
- e) Once d) is completed (a reboot is recommended), type and execute:
haspdinst -i
- f) When the installation has finished, plug the key in and it should be detected correctly.

Server in another subnet

If your net key is connected to a server in a different subnet, you will need to add some settings to the clients to allow them to see the net key:

- a) Browse to http://localhost:1947/_int_/config.html in your client computer.
- b) Go to “**Access to Remote License Managers**”



- c) In the “**Specify Search Parameters**” field, add the IP address of the server where the net key is plugged, then click **Submit**.

- d) If "c" If the above doesn't solve the issue, tick “**Aggressive Search for Remote Licenses**”.

Browse http://localhost:1947/_int_/ACC_help_config_remote_lms.html for more info about “**Specify Search Parameters**” and “**Aggressive Search for Remote Licenses**”:

Settings of Sentinel Admin Control Center

The **hasplm.ini** file contains all the settings for Sentinel Admin Control Center (SACC).

- 1- Restart the services of **Sentinel LDK License Manager**.
- 2- Browse to [http://localhost:1947/int /config.html](http://localhost:1947/int/config.html). Enable all the logs and click the **Submit** button.
- 3- Go to "C:\Program Files (x86)\Common Files\Aladdin Shared\HASP" and check "hasplm.ini" is present.

If you need to configure several client computers, you might prefer to copy one hasplm.ini into each client PC. There is one setting that is different per computer - the **name** of the server. Set the name of each client computer where you are copying the file:

```
[SERVER]
name = My Client PC name
pagerefresh = 3
linesperpage = 20
ACCremote = 0
```

...

```
[UPDATE]
```

...

```
[REMOTE]
broadcastsearch = 1
aggressive = 0
serversearchinterval = 30
```

```
[ACCESS]
```

...

```
[USERS]
```

...

Minimum server requirements

Operating Systems Supported

- Windows 10
- Windows Server 2008 SP2
- Windows Server 2008 R2 SP1
- Windows Server 2012 R2

Free USB (2.0 or higher) port where the net key will be plugged in.

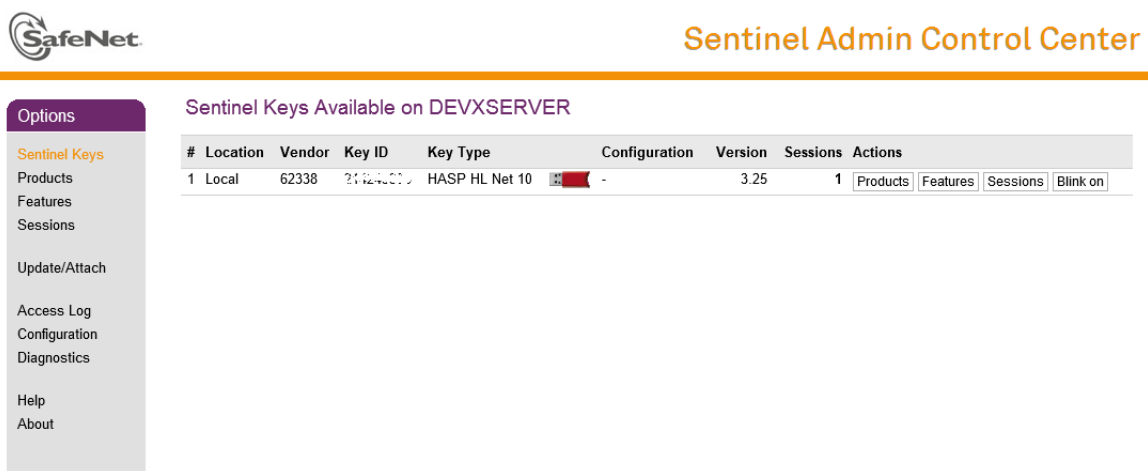
Hard drive free space of 100MB to install the driver.

Connectivity

- 1.- C:\Windows\System32\hasplms.exe shouldn't be blocked by firewall or anti-virus application.
- 2.- Port **1947** should be open by the firewall application.
- 3.- HASP License Manager Service mustn't be stopped.

Check licences used

From the server side, you can check how many licences are being used and who is using them. Browse to <http://localhost:1947/int/devices.html> where you will see the key(s) listed.



The screenshot shows the Sentinel Admin Control Center interface. On the left is a sidebar with a purple 'Options' menu containing links for Sentinel Keys, Products, Features, Sessions, Update/Attach, Access Log, Configuration, Diagnostics, Help, and About. The main content area is titled 'Sentinel Keys Available on DEVXSERVER' and displays a table with the following data:

#	Location	Vendor	Key ID	Key Type	Configuration	Version	Sessions	Actions
1	Local	62338	24424200	HASP HL Net 10	-	3.25	1	Products Features Sessions Blink on

A value in the number of sessions will indicate that someone is using a feature in the key. Each feature has a limit of sessions. Clicking on the **Features** button will show the features available in the key and the limit of sessions:

Features on DEVXSERVER: Key 214245000 (Vendor: 62338)

#	Product	Feature	Location	Access	Counting	Logins	Limit	Detached	Restrictions	Sessions	Actions
1	-	0	 Local	Loc Net Display	Station	-	10	-	Perpetual	-	Sessions
2	6 62338 Product 6	101	 Local	Loc Net Display	Station	1	8	-	Perpetual	1	Sessions

Clicking on the **Sessions** button will show you who is using that feature:

Sessions on DEVXSERVER, Key 214245000, Feature 101, Product 6

ID	Key	Location	Product	Feature	Address	User	Machine	Login Time	Timeout	Actions
000001D8		Local	6 62338 Product 6	101	10.0.0.56	User	Computer Name	Tue Dec 8, 13:59:30	11:58:50	Disconnect

Virtual machines

We have run the net key in a VMware Sphere Client. The net key needs to be plugged into a USB port in the virtual machine server and then assigned to the specific machine. The configuration of the client PCs is the same as if you were using a server or PC to host the net key.

Notes:

1. If you are running "Hyper-V virtual machine 2012", you will need to enable "USB devices handout VT-X". Hyper-V virtual machine 2012 R2 does not support USB handling.

Can't send design to cutter

Net keys aren't normally issued to be used in the computer controlling the cutter.

If you already have a Sentinel/Gemalto green dongle, you should use it in the system controlling the cutter. In this case, you shouldn't edit the boot.ini to point to the net key.



When using a local dongle (green), the boot.ini should have the setting below (it is the default value):

Security Key Type=MEMOHASP

How to change the Sentinel HASP Licensing System to a port other than 1947

Sentinel licensing system presents its service on port **1947**. This port is registered with the Internet Assigned Numbers Authority (IANA) and reserved for use by the "sentinelarm" service. See the registry (<https://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xhtml>) for more information.

Occasionally there are other programs which are incorrectly configured to use this same port and which conflict with the licensing system. Such a conflict is properly resolved by changing the errant program.

If necessary, however, you can change which port is used by the Sentinel HASP Licensing System by making a change to the registry on the machine. If the port used by a licence server is changed, **ALL** machines which need to get a licence from that server must similarly change.

To change the port, first install a product using the licensing system. Then, stop the licensing service, modify the registry to add a **Port** key with the desired new port number, and restart the service:

```
sc stop hasplms
reg add HKLM\System\CurrentControlSet\Services\hasplms\Parameters
/v Port /t REG_SZ /d 1948
sc start hasplms
```

To restore the port setting to the default port 1947, delete the **Port** key from the registry:

```
sc stop hasplms
reg delete
HKLM\System\CurrentControlSet\Services\hasplms\Parameters /v Port
sc start hasplms
```

Verify your changes by browsing the Sentinel Admin Control Center interface at <http://localhost:<portnumber>>