
Securing multiple RIPs using the Sentinel LDK

Technical Note Hqn089

October 2015



1 Introduction

The Sentinel LDK can be used to supply licenses to networked applications. One or more machines (“LDK servers”) can be used to run the Sentinel Local License Manager which can then serve licenses to other machines running the Harlequin MultiRIP v10.0r0 or Harlequin Host Renderer v4.0r0 (or later).

2 Configuration for each LDK Server

The Sentinel LDK Runtime Environment must be installed on each LDK server machine, and each machine running the RIP.

On start-up a RIP will always first try to obtain a license from any Sentinel Local License Manager running locally. If no license is obtained locally a RIP will then contact the LDK servers configured in the `LDKSERVERS` environment variable.

You should set `LDKSERVERS` to the name shown for each LDK server in the Computer Name field in the Diagnostics tab of the Sentinel Admin Control Center, separated by spaces. For LDK servers running a Windows operating system the `LDKSERVERS` environment variable should list the Windows computer name of each server.

A RIP will contact the LDK servers in the order listed until a license is obtained or the list is exhausted.

A RIP can potentially get its license from a different LDK server each time it runs, depending on the availability of licenses on each LDK server.

Note: The Windows machine name of a remote LDK server should only use “standard characters” as defined by Microsoft, that is, A-Z, 0-9, and hyphen. Using non-standard characters might work, but doing so elicits a warning when setting the machine name.

Each LDK server must have the **Allow Access from Remote Clients** option enabled in the Access from Remote Clients tab of the Configuration page of the Sentinel Admin Control Center (as shown).

Configuration for Sentinel License Manager on PASTORIUS

Basic Settings	Users	Access to Remote License Managers	Access from Remote Clients	Detachable Licenses
<p>Allow Access from Remote Clients <input checked="" type="checkbox"/> You may experience a delay of a few minutes before your changes will take effect.</p> <p>Access Restrictions</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div> <p>Show Recent Client Access</p> <p>The entries are evaluated in the order in which they are specified. As soon as a match is found, evaluation stops. allow=all is implicitly added to end of list</p> <p>Submit Cancel Set Defaults</p>				

In addition, you should use the Sentinel Admin Control Center to turn on **Allow Access to Remote Licenses** on each RIP machine (as shown):

Configuration for Sentinel License Manager on PASTORIUS

Basic Settings	Users	Access to Remote License Managers	Access from Remote Clients	Detachable Licenses	Network
<p>Allow Access to Remote Licenses <input checked="" type="checkbox"/> You may experience a delay of a few minutes before your changes will take effect.</p> <p>Broadcast Search for Remote Licenses <input checked="" type="checkbox"/></p> <p>Aggressive Search for Remote Licenses <input type="checkbox"/></p> <p>Specify Search Parameters</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div> <p>Submit Cancel Set Defaults</p>					

2.1 Subnet configuration (Windows only)

If the RIP and LDK server machines are on different subnets, each RIP machine will additionally require a `hasp_109670.ini` file to be created in:

Windows 7 and Vista:

```
%LocalAppData%\SafeNet Sentinel\Sentinel LDK
```

This file must contain a line `SERVERADDR = <name>` for each LDK server, where `<name>` is the IP address or the computer name of the LDK server machine. The order in which the LDK servers are listed in this file is not significant, and does not need to match the ordering of the `LDKSERVERS` environment variable.

If you are experiencing connection issues and seeing messages such as:

```
2015-07-30 11:50:16 [8988] Server '<IP address>' was too slow to connect in
update, after 296 [ms] from connect(), and 312 [ms] from search startup
```

You can increase the timeout values by adding the following, for example, to the `hasp_109670.ini` file:

```
broadcastsearch=0
conn_priority_timeout=1000
conn_total_timeout =12000
```

3 Setting up a remote LDK server

This section describes how to set up each remote LDK server. Global Graphics will provide product keys which can be used multiple times so that the same product key can be used to activate all of the LDK servers within a system. You can use an LDK licensing tool with a simple user interface. However, because a command line tool is also provided you can, if you prefer, create scripts to streamline the configuration process.

1. Install the Sentinel LDK Runtime Environment:

For Windows use:

```
>haspdinst.exe -install -criticalmsg
```

For Linux use:

```
>rpm -U aksusbd-2.2-1.i386.rpm
```

2a. If the LDK server has web access, activate and create the software key:

```
>ldkutil.exe -initial <productKey> -sl
```

2b. If the LDK server does not have web access, you have to create a fingerprint file and move it onto a machine with web access. You then activate and create the software key and then apply that to the LDK server. Use the following process.

On LDK server create a fingerprint file using:

```
>ldkutil.exe -fingerprint -sl -o <name>.c2v
```

Move the <name>.c2v file, using a network or memory stick, to a machine with web access, then on the machine with web access use:

```
>ldkutil.exe -initial -i <name>.c2v -o <name>.v2c
```

Copy the <name>.v2c file to the LDK server and then on the LDK server use:

```
>ldkutil.exe -apply -i <name>.v2c
```

For more information see *Hqn091—LDK tools and utilities, LDK security for Harlequin Multi-RIP 10* and *LDK security for Harlequin Host Renderer 4*, supplied by Global Graphics.

4 Document history

Change history		
v2.1	13.10.2015	Added subnet timeout information; removed Windows XP info.
v2.0	11.12.2014	Added Linux information
v1.0	06.06.2013	New Document



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