

Splunk: Integration Guide

THALES LUNA HSM

Document Information

Document Part Number	007-013239-001
Revision	С
Release Date	6 December 2021

Trademarks, Copyrights, and Third-Party Software

Copyright © 2021 Thales Group. All rights reserved. Thales and the Thales logo are trademarks and service marks of Thales Group and/or its subsidiaries and are registered in certain countries. All other trademarks and service marks, whether registered or not in specific countries, are the property of their respective owners.

CONTENTS

Overview	4
Certified platforms	4
Configuring Splunk to monitor Luna HSM	4
Install Luna HSM App	5
Verify Luna HSM App installation	9
Add Custom MIBs to Splunk Modular Input	.10
Start using Luna HSM App	.11
Adding and removing Luna HSM	.11
Add a Luna HSM device	.11
Remove a Luna HSM device	.13
Monitoring Luna HSM devices	.14
HSM Inventory	.14
HSM Health	.15
HSM Statistics	.16
Log Statistics	.17
Contacting customer support	.18
Customer support portal	.18
Telephone support	.18
Email support	.18

Overview

This document guides administrators through the steps for setting up Splunk to monitor Luna HSM devices. Splunk monitors Luna HSMs using syslog and SNMP poll requests, allowing the user to monitor the device status and availability. This provides administrators and users insights into the operational performance and business results.

Integrating the Luna HSM with the Splunk application makes it simple to collect, analyze, and act upon the data generated by the syslog and SNMP poll requests on the Luna HSM appliances. The benefits of using the Splunk application to monitor the status of the Luna Network HSM include:

- > Monitor the health status and availability of Luna Network HSM appliances.
- > Collect and monitor graphical and statistical information about Luna HSM utilization.
- > Configure user alerts for sensors.
- > Monitor HSM errors, Lush command frequency, and NTLS response code.
- > Gather partition-based information on Luna HSM appliances.

This guide contains the following sections:

- > Certified platforms
- > Configuring Splunk to monitor Luna HSM
- > Adding and removing Luna HSM
- > Monitoring Luna HSM devices

Certified platforms

The following platforms are certified for integrating Splunk with Luna HSM:

Luna HSM App	Splunk Version	Platforms
Thales Luna HSM app for Splunk	8.2.x	RHEL 8

Luna HSM: Luna HSM appliances are purposefully designed to provide a balance of security, high performance, and usability that makes them an ideal choice for enterprise, financial, and government organizations. Luna HSMs physically and logically secure cryptographic keys and accelerate cryptographic processing. Luna HSM on premise offerings include the Luna Network HSM, Luna PCIe HSM, and Luna USB HSMs. Luna HSMs are also available for access as an offering from cloud service providers such as IBM cloud HSM and AWS cloud HSM classic.

Configuring Splunk to monitor Luna HSM

Install and set up the Splunk Luna HSM App, using the following steps:

- > Install Luna HSM App
- > Verify Luna HSM App installation

- > Add custom MIBs to Splunk Modular Input
- > Start using Luna HSM App

Install Luna HSM App

To install Luna HSM App, complete the following activities:

- > Luna HSM App installation prerequisites
- > Post-installation requirements
- > Install Luna HSM App in Splunk

Luna HSM App installation prerequisites

Before installing the Luna HSM App, ensure that you have completed the following tasks on the host system:

1. Download and install Splunk Enterprise Server.

NOTE: The Luna HSM App is supported by Splunk Enterprise on RHEL Linux and Cent OS platforms.

- 2. Ensure that the Luna HSM appliances you intend to monitor each have a unique hostname. The hostname is used to identify the appliance in the application logs.
- 3. Deploy Splunk SNMP modular input version 1.7.8 on the Splunk server.

NOTE: The steps for deployment of SNMP are available at the following URL: https://splunkbase.splunk.com/app/1537/#/details

- 4. Configure Syslog and SNMP poll/trap on the Luna HSM Appliance.
 - To configure syslog on splunk server, run the following command on your Luna Network appliance. syslog re add -h < Splunk server IP > -pr tcp -po 7171
 - To configure and enable SNMP traps/poll on Luna appliance, run the following steps. Each step corresponds to an administrative command via the Luna shell.
 - a. Add an SNMP user to the system:

```
sysconf snmp user add -s <Security_Username > -authPassword < PASSWORD > -
authProtocol < Auth_protocol > -privPassword < PASSWORD > -privProtocol <
Priviledge_protocol >
```

b. Enable SNMP:

sysconf snmp enable

c. Set the SNMP trap parameters for the SNMP user:

sysconf snmp trap set -h < Splunk_server_IP > -s <Security_Username > -e <
engineID > -authpr SHA -authpw < PASSWORD > -privPr AES -privPwd <PASSWORD>

d. Enable SNMP traps:

sysconf snmp trap enable

Post-installation requirements

Ensure you configure the following settings on the Splunk Web interface after downloading and installing the Luna HSM App.

- 1. Open Splunk web page, click **Settings** and then click **Add Data** from the left pane.
- 2. Select Users under USERS AND AUTHENTICATION.

! Administrator 🔻	Messages	Activity ▼ Help ▼ Find	Q
	KNOWLEDGE	DATA	
	Searches, reports, and alerts Data models	Data inputs Forwarding and receiving	
Add Data	Event types Tags	Indexes Report acceleration summaries	
	Fields Lookups User interface	Virtual indexes Source types	
	Alert actions Advanced search	DISTRIBUTED ENVIRONMENT Indexer clustering	
Explore Data	All configurations	Forwarder management Data Fabric	
ŶĮŶ	SYSTEM Server settings Server controls	Federated search Distributed search	
Monitoring Console	Health report manager RapidDiag	USERS AND AUTHENTICATION Roles	
	Instrumentation Licensing	<u>Users</u> Tokens	
	Workload management	Password Management Authentication Methods	

3. Click on administrator user that you have created and under Assign Roles, select can_delete.

Edit User: admin				×
	Password must contain at least ? 8 characters			
Time zone ?	Default System Timezone 🔻			
Default app ?	launcher (Home) 🔻			
Assign roles ?	Available item(s) admin can_delete power splunk-system-role	add all »	Selected item(s) admin can_delete	« remove all
Require password change on next login				

- 4. Click Save.
- 5. Make sure that you configure the email settings to send alerts on sensitive operations to users by clicking Settings Server settings under Server settings Email settings on the Splunk Web interface.

splunk>enterprise	Apps 🕶	🚺 Administrator 🕶	Messages 👻 Settings 👻	Activity - Help - Find	Q					
Server setting: Manage system settings	S including ports, host name, index path, email server, and system logging		KNOWLEDGE Searches, reports, and alerts	DATA Data inputs						
	General settings	Add Data	Data models Event types	Forwarding and receiving Indexes						
	Login background		Fields Lookups	Virtual indexes Source types						
	Global banner	Explore Data	User interface Alert actions Advanced search	DISTRIBUTED ENVIRONMENT						
	Email settings	989	All configurations	Indexer clustering						
	Server logging		SYSTEM	Forwarder management Data Fabric Federated search						
	Deployment client	Console	<u>Server settings</u> Server controls	Distributed search						
	Search preferences		Health report manager RapidDiag	USERS AND AUTHENTICATION						
			Instrumentation	Roles						
			Licensing	Users						
			Workload management	Tokens						
10.164.78.59:8000/en-US/mana	ger/launcher/systemsettings			Password Management						

Install Luna HSM App in Splunk

This section details the instructions on downloading the Luna HSM App.

1. Download the Luna HSM App application from the <u>Splunk App Page</u>. Accept the license agreements and download the **lunahsm.tgz** file.

← → C 🍐 https://splunkbase.splunk.com/app/2771/#/overview		3	☆ =
🔠 Apps 🕒 Luna SA 5.4 Product 🗅 172.20.18.90 - /Luna 🌃 www.napw.com/Ind	📰 IBM Search 🛛 🛻 Jobs at IBM - Power 🐴 Jobs at IB	3M - Power 🕎 Falling for Trendy D 🔮 Poisons in milk SH » 🗀 Other box	okmarks
splunkbase ⁻ categories •	TECHNOLOGIES - FOR DEVELOPERS	Splunk.com Community Logout Modhumita Sharma Search oppsQ	Î
🤝 LUNA HSM App		DOWNLOAD	
		X X X X O rotings	
Gemalto splunk app monitors health status of syslog and SNMP poll. We have to add our app monitor those devices	Safenet Luna SA appliances throught their bliances in this application so that we can	.≜. 14 downloads ✦ Subscribe Stats	
Reference of the International Control of the	Annual Contract Statement and Statement and Statement	Share this app	
		VERSION 1.0 Application Management Utilities App 6.2 End User License Agreement for Third- Party Content Ulnux	

2. Log in to the Splunk web interface and click on App – Manage Apps to open the Apps Management page in Manager.

3. Click the Install app from file button, locate the downloaded lunahsm.tgz file, and then click Upload.

Install App From File	
If you have a .spl or .tar.gz app file to install, you can upload it using this form.	
You can replace an existing app via the Splunk CLI. 🛽 Learn more.	
Choose File Iunahsm.tgz Upgrade app. Checking this will overwrite the app if it already exists.	
Cancel	Upload

- 4. Restart the Splunk server after the file gets uploaded.
- 5. Verify the application installation. It should be included in the list of apps installed within the Splunk Web Interface. For example: http://IP address:8000.

Search & Reporting > Python Upgrade Readiness App > SNMP Modular Input > Splunk Essentials for Cloud and > Enterprise 8.2 > Splunk Secure Gateway > Thales Luna HSM app for > Splunk > Manage Apps > Find More Apps >	splunk>	enterprise Apps -	
Python Upgrade Readiness App SNMP Modular Input Splunk Essentials for Cloud and Enterprise 8.2 Splunk Secure Gateway Thales Luna HSM app for Splunk Manage Apps Find More Apps		Search & Reporting	>
SNMP Modular Input Splunk Essentials for Cloud and Enterprise 8.2 Splunk Secure Gateway Thales Luna HSM app for Splunk Manage Apps Find More Apps		Python Upgrade Readiness App	ΞQ
Splunk Essentials for Cloud and Enterprise 8.2 Splunk Secure Gateway Thales Luna HSM app for Splunk Manage Apps Find More Apps		SNMP Modular Input	SNMP
Splunk Secure GatewayThales Luna HSM app for SplunkManage AppsFind More Apps		Splunk Essentials for Cloud and Enterprise 8.2	>
Thales Luna HSM app for SplunkManage AppsFind More Apps		Splunk Secure Gateway	ssg
Manage Apps Find More Apps		Thales Luna HSM app for Splunk	-
Find More Apps		Manage Apps	
		Find More Apps	

Verify Luna HSM App installation

To install Luna HSM App correctly, ensure that the following conditions are met:

- > A new application, Thales Luna HSM App for Splunk, exists in the applications list.
- > New indexes named lunasa_appliance, luna_syslog1, hsm_partition_info, hsm_operation, hsm_client_addr, hsm_information and hsm_network_info exist in the index list section.

Indexes A repository for data in Splunk Enterprise. Indexes reside in flat files on the Splunk Enterprise instance known as the indexer. Learn more 🖻										New Index		
18 Indexes		filter	c	L							10	00 per page 🔻
Name ‡	Actions		Type ‡	App 🔷	Current Size ‡	Max Size ‡?	Event Count ‡	Earliest Event ‡	Latest Event \$	Home Path \$	Frozen Path ‡	Status ‡
lunasa_applia nce	Edit Dele	ete Disable	🗄 Events	lunahsm	1 MB	488.28 GB	4.33K	2 hours ago	in 5 hours	\$SPLUNK_DB/I unasa_applianc e/db	N/A	✓ Enabled
luna_syslog1	Edit Dele		🗄 Events	lunahsm	5 MB	488.28 GB	148K	20 hours ago	11 hours ago	\$SPLUNK_DB/I una_syslog1/db	N/A	✓ Enabled
hsm_partition _info	Edit Dele	ete Disable	Events	lunahsm	2 MB	488.28 GB	34.7K	2 hours ago	in 5 hours	\$SPLUNK_DB/h sm_partition_inf o/db	N/A	✓ Enabled
hsm_operatio n	Edit Dele		🗄 Events	lunahsm	1 MB	488.28 GB	6.49K	2 hours ago	in 5 hours	\$SPLUNK_DB/h sm_operation/d b	N/A	✓ Enabled
hsm_client_a ddr	Edit Del	ete Disable	🗄 Events	lunahsm	2 MB	488.28 GB	52.2K	2 hours ago	in 5 hours	\$SPLUNK_DB/h sm_client_addr/ db	N/A	✓ Enabled
hsm_informat ion	Edit Dele		Events	lunahsm	2 MB	488.28 GB	55K	2 hours ago	in 5 hours	\$SPLUNK_DB/h sm_information/ db	N/A	✓ Enabled
hsm_network _info	Edit Del	ete Disable	🗄 Events	lunahsm	1 MB	488.28 GB	6.92K	2 hours ago	in 5 hours	\$SPLUNK_DB/h sm_network_inf o/db	N/A	✓ Enabled

> The Splunk Setting > Fields > Fields extractions section displays a section for the Thales Luna HSM app for Splunk.

splunk>enterprise Apps -			Administrator •	Messages 🕶	Settings 🕶	Activity 👻 H	elp 🕶	Find Q
Field extractions Fields » Field extractions					New	/ Field Extraction	Оре	en Field Extractor
Showing 1-100 of 100 items								
App Thales Luna HSM app * Owner Any	* Vis	sible in the App 👻 filter	Q					100 per page 🔹
Nar Log Event Alert Action (alert_logevent)	Í	Extraction/Transform 🕈			Owner \$	App \$		Sharing \$
Act Apps Browser (appsbrowser) introspection_generator_addon (introspection_generator_addon iourgald_ioput/(iourgald_ioput)	don)	?i)(?!=\w)(?:objectguidlguid)\s*=\s*(? <gu< td=""><td>id_lookup>[\w\-]+)</td><td></td><td>No owner</td><td>system</td><td></td><td>Global Permis</td></gu<>	id_lookup>[\w\-]+)		No owner	system		Global Permis
Act Home (learned) learned (learned)		bbjectSid\s*=\s*(? <sid_lookup>\S+)</sid_lookup>			No owner	system		Global Permis
Act Python Upgrade Readiness App (python_upgrade_readiness_ Search & Reporting (search)	_app)	àd-kv			No owner	system		Global Permis
Per Splunk Dashboard Studio (splunk-dashboard-studio) Splunk Archiver App (splunk_archiver)		berfmon-kv			No owner	system		Global Permis
acc Splunk Essentials for Cloud and Enterprise 8.2 (splunk_essentials_8_2) Splunk Get Data In (splunk_gdi) solunk httpinput (splunk Intipinput)		access-extractions			No owner	system		Global Permis
acc Instrumentation (splunk_instrumentation) Clones Internal Metrics into Metrics Index (splunk_internal_met Splunk Analytics Workspace (splunk_metrics_workspace)	access-extractions			No owner	system		Global Permis	
access_common : REPORT-access U	Jses ransform	access-extractions			No owner	system		Global Permis
anaconda_syslog : REPORT-syslog U	Jses ransform	syslog-extractions			No owner	system		Global Permis

> New alerts are displayed in Setting > Search, Reports and Alert section for the Thales Luna HSM app for Splunk.

splunk>enterprise Apps -		🚯 Adm	inistrator 👻 🛛	Messages 🔻	Settings 🕶	Activity -	Help 🔻	Find Q
Searches, Reports, and Alert Searches, reports, and alerts are saved searches	S created from pivot or the search page. Learn more D				New Federa	ted Search	New Rep	New Alert
0 Searches, Reports, and Alerts Type: All •	App: Thales Luna HSM app for Splunk (lunahsm) •	Owner: Administrator (admin	1) • filter		q			10 per page 💌
Name * Actions \$ I No searches, reports, and alerts found.	Apps Browser (appsbrowser) introspection_generator_addon (introspection_generator_addon) journald_input (journald_input)	w ¢	Owner ‡	App ‡	Alerts ≎	Sha	ring ‡	Status ‡
	Home (launcher) learned (learned) ✓ Thales Luna HSM app for Splunk (lunahsm)	_						
	Python Upgrade Readiness App (python_upgrade_readiness_app) Search & Reporting (search)							

> The **Setting > Data Inputs > TCP** Section displays a TCP input type. The TCP port should be 7171.

splunk >enterprise	Apps 🔻			6	Administrator -	Messages 🔻	Settings 🔻	Activity -	Help 🔻	Find	Q
TCP Data inputs > TCP										New Loca	al TCP
Showing 1-1 of 1 item filter	Q									100 per pa	age 🔻
TCP port \$		Host Restriction \$	Source type \$		Stat	us \$			Action	IS	
7171			syslog		Ena	oled Disable			Clone		
4											÷

Refer to <u>Splunk Documentation</u> for more information about verifying these values.

Add Custom MIBs to Splunk Modular Input

Deploy the PyCrytpo package (pip install pycryptodomex) before adding custom MIBs to the Splunk Modular Input. Refer to <u>https://www.baboonbones.com/php/markdown.php?document=snmp/README.md</u> for more information about adding custom MIBs to SNMP Modular Input. Luna HSM App requires the following custom MIBs in python (.py) format:

- > SAFENET-HSM-MIB
- > LM-SENSORS-MIB
- > CHRYSALIS-UTSP-MIB
- > SAFENET-APPLIANCE-MIB
- > SAFENET-GLOBAL-MIB
- > SNMPv2-SMI

NOTE: Ensure that Thales provides these custom MIBs files in python (.py) as well as in the .txt format with this application.

Copy the mibs.py files from the location MIBs present in the downloaded Luna App for Splunk zip file and paste them at "\$SPLUNK_HOME/etc/apps/snmp_ta/bin/mibs/user_python_mibs" or regenerate python files out of the

custom MIB txt files using the SPLUNK_HOME/etc/apps/snmp_ta/bin/mibdump.py script available with Splunk Modular Input (click the link <u>here</u> to refer to the process as defined under the section Adding Custom MIBs in Splunk Modular Input documentation).

Start using Luna HSM App

After the successful installation of the Thales Luna HSM app for Splunk, you can configure, run, or maintain the application as a service. Luna HSM App usage operations include the following:

- > Adding a New Luna Device: Configure a Luna HSM Appliance with the Splunk Luna HSM App. The Add Luna Appliance page on the Splunk web interface allows you to add a Luna HSM appliance in an easy way.
- > **Monitoring Luna HSM Appliances**: Monitor a Luna HSM appliance for usage, availability and health status, etc. enabling you to gain end-to-end visibility across all the components of your appliance.
- > **Configuring Settings for Server and Authentication**: Configure user roles and email settings for setting alerts on sensitive operations.

Adding and removing Luna HSM

To monitor a Luna HSM using the Splunk application, you must provide Splunk access to the Luna HSM. If you would like to stop monitoring a Luna HSM, you can remove the device from the Splunk application. This section contains the following topics:

Add a Luna HSM device

Remove a Luna HSM device

Add a Luna HSM device

To add a Luna HSM device

- 1. Log in to the Splunk web interface as an Administrator user.
- 2. Click Thales Luna HSM app for Splunk.

splunk	>enterprise		6	Administrator 🔻	Messages 🔻	Settings 🔻	Activity -	Help 🔻	Find	
Apps	¢	Explore Splunk Enterprise								
>	Search & Reporting	<u>ب</u>					F			
EQ	Python Upgrade Readiness		(+)				L			
	. TP	Product Tours	Add Data	-	Explore Data		Spl	unk Apps 🖄		
	Update	New to Splunk? Take a tour to help you on your way.	Add or forward data to Splunk Enterprise. Afterwards, you may	Explore da	ta and define nov arses that data.	/ Hunk	capabilities of	of Splunk En	na tne terprise.	
SNMP	SNMP Modular Input		extract fields.							
>	Splunk Essentials for Cloud and Enterprise 8.2								Close	
	Update									
ssg	Splunk Secure Gateway									
	Thales Luna HSM app for Splunk									
	+ Find More Apps		Choose a							

3. Click Configure Luna Appliance and select Add Luna HSM Appliance.

splunk>enterprise Apps •	Administrator * Messages * Settings * Activity * Help * Find Q
Add Luna HSM Appliance	es Compute une Appliance reports search en finales une nom appror opinink Edit Export •
Configuration Name	
SNMP Modular Input Activation Key	Vicit http://www.baboohoner.com#activation
Destination	Visit http://www.aauconucites.com/eacuvation
IP version 6	Yes Whether or not this is an IP version 6 address. Defaults to false
SNMPv3 USM username	
SNMPv3 Authorization Key	SNMPv3 secret authorization key used within USM for SNMP PDU authorization
SNMPv3 Authorization Protocol	usmHMACSHAAuthProtocol Hashing for Authorisation Protocol parameter
SNMPv3 Encryption Key	
SNMPv3 Encryption Key Protocol	SNMPV3 secret encryption key used within USM for SNMP PDU encryption usmAesCfb128Protocol
Port	Encryption methods for Encryption Protocol parameters 161
	The SNMP port. Defaults to 161
System Python Path	Defaults to /usr/bin/python
SNMP Interval	60 SNMP attribute pollina timeout (in seconds). Defaults to 60 second.
SNMP Timeout	5
	How often to run the SNMP query (in seconds). Defaults to 5 seconds Cancel Save

- 4. Enter your information on the Add Luna HSM Appliance page, as explained below:
 - **a.** Configuration Name : Enter the name of your SNMP input for the Luna device. You can select a random name that is unique for each appliance.
 - **b.** SNMP Modular Input Activation Key : Get activation key for SNMP Modular from https://www.baboonbones.com/#activation
 - c. IP Version 6: Mark this checkbox, if your device support IPv6.
 - d. Destination: IP or hostname of the HSM device you would like to query.
 - e. SNMPv3 USM username: Enter the username you created on your Luna appliance while configuring SNMP.
 - f. **SNMPv3 Authorization Key**: Enter the SNMPv3 secret authorization key you used during SNMP user creation on the Luna device.
 - **g. SNMPv3 Encryption Key**: Enter the SNMPv3 secret encryption key you used during SNMP user creation on the Luna device.
 - **h. SNMPv3 Authorization Protocol**: Select the Authorization protocol name corresponding to the key you used during SNMP user creation on Luna Box.
 - i. **SNMPv3 Encryption Key Protocol**: Select the Encryption protocol name corresponding to the key you used during SNMP user creation on Luna Box.

- j. System Python Path : Defaults to /usr/bin/python. Change path if you have python installed at different location.
- k. Port: Enter the SNMP polling port available on Luna appliance. The default port is 161.
- I. **SNMP Interval**: Enter the time interval (in seconds) to determine the frequency of SNMP queries. It is recommended to set it at 300 seconds. The default value is **60** seconds.
- m. SNMP Timeout : Enter how often to run the SNMP query (in seconds). Defaults to 5 seconds.
- 5. Click Save to continue.
- 6. Restart Splunk service
 - # /opt/splunk/bin/splunk restart

The Luna Network HSM appliance is now configured with Luna HSM App on the Splunk web interface. Verify the Luna Network HSM is available in the **HSM Home** tab.

splunk>enterprise	Apps 🔻				6	Administrator 🔻	Messages 🔹 S	ettings 🔻	Activity - Hel	Fi	nd Q,
Thales Luna HSM App - Int	roduction	HSM Home	HSM Statistics	Logs Statist	ics Con	figure Luna Applian	ce 🕶 Reports		💳 Thales Lu	na HSM a	app for Splunk
HSM Home Home page									Edit	Exp	oort ▼
HSM Information											
Appliance Hostname/IP ‡	HSM Label ≑	Firmware Version ‡	Authentica Method ‡	ation	FIPS Mode ¢	RPV Initialized	HSM SO logins atte	empts left ‡	Maximum Parti Allowe	ion ed ‡	Partition Created ‡
10.164.75.32	SA7	7.7.0	password		true	No		3		10	4
HSM Usage Informati	on									ď₹	i 🖸 in 5h
Appliance Hostname/IP ‡	Allocated Sto Area ‡	orage	Total Storage Bytes ‡	Available S	Storage Bytes \$	Partitions Created \$	Maximum Partition Limit :	¢ Clie	ent connected With HSM ‡	HSM O State \$	perational
10.164.75.32	40.6 %		67108864	3	9862648	4	1	0	1	UP	

Remove a Luna HSM device

Remove Luna HSM appliances that you do not want Splunk to monitor. To remove a Luna device:

7. On the Splunk interface for Luna HSM App click Click Configure Luna Appliance and select Remove Luna Device. The Remove Appliance screen displays.

	🚯 Administrator 🕶 M	lessages ▼ Settings ▼	Activity Help	Find Q
Home HSM Statistics Logs Statistics	Configure Luna Appliance -	Reports Search	Thales Luna HS	SM app for Splunk
			Edit	Export 👻
ces				
PPLIANCE IP/HOSTNAME DE	LETE?			
64.75.32				
	Home HSM Statistics Logs Statistics	● Administrator ● M Home HSM Statistics Logs Statistics Configure Luna Appliance ● Cess PPLIANCE IP/HOSTNAME DELETE? 4.75.32 ☑	Image: Market in Physical Control In Physical Controphysical Control In Physical Control In Ph	Administrator v Messages v Settings v Activity v Help v Home HSM Statistics Logs Statistics Configure Luna Appliance v Reports Search Thales Luna HS Edit Edit 4.75.32 ▲ Administrator v Messages v Settings v Activity v Help v Reports Search Thales Luna HS Search Edit Edit

8. Select the Luna Network HSM appliance that you want to remove from the list of configured devices, then click **Delete.**

9. Restart Splunk service

/opt/splunk/bin/splunk restart

NOTE: It can take some time to remove the HSM information after deleting it.

Monitoring Luna HSM devices

You can use the Luna HSM App for monitoring the health status, logs, availability, appliances operations and status of Luna HSM devices. Using the syslog and SNMP poll request, you can monitor the Luna HSM for the following purposes:

- > HSM Inventory
- > HSM Health
- > HSM Statistics
- > Log Statistics

HSM Inventory

The HSM Inventory tab on Luna HSM app provides information on the Luna HSM appliances configured with the application. Click the **HSM Home** for inventory which displays **HSM Information** panel and **HSM Usage Information** panel.

splunk>enterprise	Apps 🔻				3	Administrator 🔻	Messages 🔻 🛛	Settings 🔻	Activity - Help	▼ Find Q
Thales Luna HSM App - Int	roduction	HSM Home	HSM Statistics	Logs Statisti	ics Confi	gure Luna Applian	ce 🔻 Reports		🚍 Thales Lur	a HSM app for Splunk
Search										
HSM Home Home page									Edit	Export •
HSM Information										
Appliance Hostname/IP \$	HSM Label ≎	Firmware Version \$	Authentic Method	ation	FIPS Mode	RPV Initialized	HSM SO logins at	ttempts left ‡	Maximum Partiti Allowe	on Partition d
10.164.75.32	SA7	7.7.0	password		true	No		3		10 4
HSM Usage Information	on									
Appliance Hostname/IP ≎	Allocated St Area ‡	orage	Total Storage Bytes ≑	Available S	itorage Bytes ≑	Partitions Created \$	Maximum Partitio Limit	on Clie	ent connected With HSM ‡	HSM Operational State \$
10.164.75.32	40.6 %		67108864	39	9862648	4		10	1	UP

- > HSM Information: This panel provides appliance details, including IP Address, HSM Label, Firmware Version, Authentication Method, FIPS Mode, RPV Initialized, HSM SO logins attempts left, Maximum Partition Allowed, and Partition Created.
- > HSM Usage Information: This panel provides information regarding storage space and partition, including Appliance Hostname/IP, Allocated Storage Area, Total Storage Bytes, Available Storage Bytes, Partitions Created, Maximum Partition Limit, Client connected With HSM, and HSM Operational State.

HSM Health

Click the **HSM Health** tab to view statistical information on your appliance at various hours of a particular date, including **Power Supply (CPU Temperature, Voltage)** and **Fan Speed**.



HSM Statistics

Click the HSM Statistics tab to view details such as Crypto operations frequency, HSM Utilization, HSM Operations Error Frequency, HSM Command count frequency, HSM Operational state, HSM Successful client connections, HSM Failed Client Connections and HSM Connected Clients. Select the desired IP from the Select Appliance drop-down to view the statistics of a particular appliance.



Log Statistics

Click the **Log Statistics** tab to monitor the **Lush Command Frequency** and **NTLS ResponseCode Count** of your appliance.

splunk> App: SafeNet Luna HSM App ~	Administrator V Messages V Settings V Activity V Help V Find
HSM Inventory HSM Health HSM Statistics Logs Statistics	SafeNet Luna HSM App
Logs Statistics	
Appliance Host Name List	
MyLunaSA_76_60 v	
Select Hostname from this list to check Lush Command Frequency and NTLS ResponseCode Count	
Lush Command Frequency	NTLS ResponseCode Count
	: 0xc0000002 :
No results found.	
	:0;
About Support File a Bug Documentation Privacy Policy	© 2005-2015 Splunk Inc. All rights reserved.

Contacting customer support

If you encounter a problem during this integration, contact your supplier or <u>Thales Customer Support</u>. Thales Customer Support operates 24 hours a day, 7 days a week. Your level of access to this service is governed by the support plan arrangements made between Thales and your organization. Please consult this support plan for further information about your entitlements, including the hours when telephone support is available to you.

Customer support portal

The Customer Support Portal, at <u>https://supportportal.thalesgroup.com</u>, is a database where you can find solutions for most common problems. The Customer Support Portal is a comprehensive, fully searchable repository of support resources, including software and firmware downloads, release notes listing known problems and workarounds, a knowledge base, FAQs, product documentation, technical notes, and more. You can also use the portal to create and manage support cases.

NOTE: You require an account to access the Customer Support Portal. To create a new account, go to the portal and click on the **REGISTER** link.

Telephone support

If you have an urgent problem, or cannot access the Customer Support Portal, you can contact Thales Customer Support by telephone at +1 410-931-7520. Additional local telephone support numbers are listed on the support portal.

Email support

You can also contact technical support by email at technical.support.DIS@thalesgroup.com.