



Hewlett Packard
Enterprise

HPE Security ArcSight Connectors

SmartConnector for ArcSight CEF Encrypted
Syslog (UDP)

Configuration Guide

November 30, 2016

Configuration Guide

SmartConnector for ArcSight CEF Encrypted Syslog (UDP)

November 30, 2016

Copyright © 2011 – 2016 Hewlett Packard Enterprise Development LP

Warranty

The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise Development LP shall not be liable for technical or editorial omissions contained herein. The information contained herein is subject to change without notice. The network information used in the examples in this document (including IP addresses and hostnames) is for illustration purposes only. Hewlett Packard Enterprise Development LP products are highly flexible and function as you configure them. The accessibility, integrity, and confidentiality of your data is your responsibility. Implement a comprehensive security strategy and follow good security practices. This document is confidential.

Restricted Rights Legend

Confidential computer software. Valid license from Hewlett Packard Enterprise Development LP required for possession, use or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

Follow this link to see a complete statement of Hewlett Packard Enterprise Development LP copyrights, trademarks and acknowledgements:

<https://www.protect724.hpe.com/docs/DOC-13026>.

Revision History

Date	Description
11/30/2016	Updated installation procedure for setting preferred IP address mode.
05/16/2016	Added overview information about the CEF Implementation Standard.
11/17/2015	Added algorithm used for encryption.
08/15/2014	Removed device event mappings to ArcSight fields with referral to vendor CEF documentation.
02/14/2014	Updated parameter screen image.
09/28/2012	Added Request Context and Device Payload ID mappings.
05/15/2012	Added new installation procedure.
02/15/2012	Added reference and link to ArcSight Common Event Format certified connectors.
05/15/2011	First edition of this Configuration Guide.

SmartConnector for ArcSight CEF Encrypted Syslog (UDP)

This guide provides information for installing and running the SmartConnector for ArcSight CEF Encrypted Syslog (UDP). This connector allows for connector-to-connector communication through an encrypted channel by decrypting events previously encrypted through the CEF Encrypted Syslog (UDP) destination. The encryption method is AES with a 128-bit key. See the *SmartConnector User's Guide*, "CEF Encrypted Syslog (UDP)," for more information about encrypting events.

Product Overview

CEF is an extensible, text-based, high-performance format designed to support multiple device types from both security and non-security devices and applications in the most simple manner possible, unlike other standards that target a single component of the security infrastructure, are tied to a specific transport protocol, or are designed specifically for applications and cannot support today's high-performance, real-time security requirements.

Each security infrastructure component tends to have its own event format, making it difficult to derive and understand the impact of certain events or combinations of events. ArcSight's Common Event Format (CEF) defines a very simple event format that can be adopted by vendors of both security and non-security devices. This format contains the most relevant event information.

The CEF SmartConnectors let ArcSight ESM connect to, aggregate, filter, correlate, and analyze events from applications and devices that deliver their logs in the CEF standard, using the syslog transport protocol.

Common Event Format Implementation

The Common Event Format (CEF) standard format, developed by ArcSight, lets vendors and their customers quickly integrate their product information into ESM. CEF is an open log management standard that simplifies log management, letting third parties create their own device schemas that are compatible with a standard that is used industry-wide for normalizing security events. Technology companies and customers can use the standardized CEF format to facilitate data collection and aggregation, for later analysis by an enterprise management system.

The ArcSight Common Event Format (CEF) Guide, also known as "Implementing ArcSight Common Event Format (CEF)" defines the CEF protocol and provides details about how to implement the standard. It details the header and predefined extensions used within the standard as well as how to create user defined extensions. It also includes a list of CEF mappings as well as supported date formats.

To access this standard, go to <https://www.protect724.hpe.com/docs/DOC-1072>.

Configuration

The SmartConnector is a syslogd-compatible daemon that implements a UDP receiver on the port you identify during connector installation to receive syslog events. Simply start the connector, either as a service or as a process, to start receiving events; no further configuration is needed.

Install the SmartConnector

The following sections provide instructions for installing and configuring your selected SmartConnector.

Prepare to Install Connector

Before you install any SmartConnectors, make sure that the ArcSight products with which the connectors will communicate have already been installed correctly (such as ArcSight ESM or ArcSight Logger). This configuration guide takes you through the installation process with **ArcSight Manager (encrypted)** as the destination.

For complete product information, read the *Administrator's Guide* as well as the *Installation and Configuration* guide for your ArcSight product before installing a new SmartConnector. If you are adding a connector to the ArcSight Management Center, see the *ArcSight Management Center Administrator's Guide* for instructions, and start the installation procedure at "Set Global Parameters (optional)" or "Select Connector and Add Parameter Information."

Before installing the SmartConnector, be sure the following are available:

- Local access to the machine where the SmartConnector is to be installed
- Administrator passwords

Install Core Software

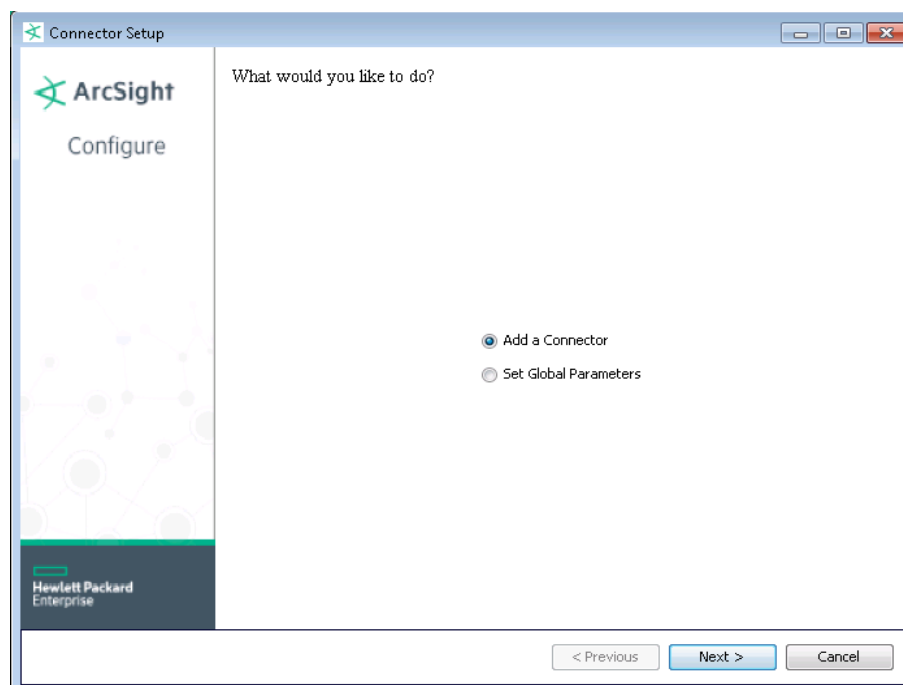
Unless specified otherwise at the beginning of this guide, this SmartConnector can be installed on all ArcSight supported platforms; for the complete list, see the *SmartConnector Product and Platform Support* document, available from the HPE SSO and Protect 724 sites.

- 1 Download the SmartConnector executable for your operating system from the HPE SSO site.
- 2 Start the SmartConnector installation and configuration wizard by running the executable.

Follow the wizard through the following folder selection tasks and installation of the core connector software:

Introduction
Choose Install Folder
Choose Shortcut Folder
Pre-Installation Summary
Installing...

- 3 When the installation of SmartConnector core component software is finished, the following window is displayed:



Set Global Parameters (optional)

If you choose to perform any of the operations shown in the following table, do so before adding your connector. After installing core software, you can set the following parameters:

Global Parameter	Setting
Set FIPS mode	Set to 'Enable' to enable FIPS compliant mode. To enable FIPS Suite B Mode, see the SmartConnector User Guide under "Modifying Connector Parameters" for instructions. Initially, this value is set to 'Disable'.
Set Remote Management	Set to 'Enable' to enable remote management from ArcSight Management Center. When queried by the remote management device, the values you specify here for enabling remote management and the port number will be used. Initially, this value is set to 'Disable'.
Remote management listener port	The remote management device will listen to the port specified in this field. The default port number is 9001.
Preferred IP Version	If both 'IPv4' and 'IPv6' IP addresses are available for the local host (the machine on which the connector is installed), you can choose which version is preferred. Otherwise, you will see only one selection. When both values are present, the initial setting is 'IPv4'.

After making your selections, click **Next**. A summary screen is displayed. Review the summary of your selections and click **Next**. Click **Continue** to return to the "Add a Connector" window. Continue the installation procedure with "Select Connector and Add Parameter Information."

Select Connector and Add Parameter Information

- 1 Select **Add a Connector** and click **Next**. If applicable, you can enable FIPS mode and enable remote management later in the wizard after SmartConnector configuration.
- 2 Select **ArcSight CEF Encrypted Syslog (UDP)** and click **Next**.

- 3 Enter the required SmartConnector parameters to configure the SmartConnector, then click **Next**.

Parameter	Description
Network Port	Enter the port on which the SmartConnector will listen for syslog events. Enter the same port you configured for the CEF Encrypted Syslog (UDP) destination when you configured the source connector.
IP Address	Enter the IP address to which the SmartConnector will listen for syslog events.
Shared Key (16 Characters)	The Shared Key is used to decrypt the data previously encrypted through the CEF Encrypted Syslog (UDP) destination. Enter the same 16-character shared key you entered when configuring the CEF Encrypted Syslog (UDP) destination. See the SmartConnector User's Guide, "CEF Encrypted Syslog (UDP)," for more information.

Select a Destination

- 1 The next window asks for the destination type; make sure **ArcSight Manager (encrypted)** is selected and click **Next**. (For information about this destination or any of the other destinations listed, see the *ArcSight SmartConnector User Guide*.)
- 2 Enter values for the **Manager Host Name**, **Manager Port**, **User** and **Password** required parameters. This is the same ArcSight user name and password you created during the ArcSight Manager installation. Click **Next**.
- 3 Enter a name for the SmartConnector and provide other information identifying the connector's use in your environment. Click **Next**. The connector starts the registration process.
- 4 The certificate import window for the ArcSight Manager is displayed. Select **Import the certificate to the connector from destination** and click **Next**. (If you select **Do not import the certificate to**

connector from destination, the connector installation will end.) The certificate is imported and the **Add connector Summary** window is displayed.

Complete Installation and Configuration

- 1 Review the **Add Connector Summary** and click **Next**. If the summary is incorrect, click **Previous** to make changes.
- 2 The wizard now prompts you to choose whether you want to run the SmartConnector as a stand-alone process or as a service. If you choose to run the connector as a stand-alone process, select **Leave as a standalone application**, click **Next**, and continue with step 5.
- 3 If you chose to run the connector as a service, with **Install as a service** selected, click **Next**. The wizard prompts you to define service parameters. Enter values for **Service Internal Name** and **Service Display Name** and select **Yes** or **No** for **Start the service automatically**. The **Install Service Summary** window is displayed when you click **Next**.
- 4 Click **Next** on the summary window.
- 5 To complete the installation, choose **Exit** and Click **Next**.

For some SmartConnectors, a system restart is required before the configuration settings you made take effect. If a **System Restart** window is displayed, read the information and initiate the system restart operation.



Save any work on your computer or desktop and shut down any other running applications (including the ArcSight Console, if it is running), then shut down the system.

For instructions about upgrading the connector or modifying parameters, see the *SmartConnector User Guide*.

Run the SmartConnector

SmartConnectors can be installed and run in stand-alone mode, on Windows platforms as a Windows service, or on UNIX platforms as a UNIX daemon, depending upon the platform supported. On Windows platforms, SmartConnectors also can be run using shortcuts and optional Start menu entries.

If the connector is installed in stand-alone mode, it must be started manually and is not automatically active when a host is restarted. If installed as a service or daemon, the connector runs automatically when the host is restarted. For information about connectors running as services or daemons, see the *ArcSight SmartConnector User Guide*.

To run all SmartConnectors installed in stand-alone mode on a particular host, open a command window, go to `$ARCSIGHT_HOME\current\bin` and run: `arcsight connectors`

To view the SmartConnector log, read the file `$ARCSIGHT_HOME\current\logs\agent.log`; to stop all SmartConnectors, enter `Ctrl+C` in the command window.

Device Event Mapping to ArcSight Data Fields

Refer to vendor CEF documentation for device mappings for that vendor's product.

Information from vendors is formatted according to the CEF standard and sent to the ArcSight SmartConnector, which translates the data into an ArcSight event.



In a key value parser strings do not require tokenization. They work by default.
