



ArcSight SmartConnectors

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Configuration Guide for sFlow SmartConnector

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Configuration Guide for sFlow SmartConnector

This guide provides information for installing the SmartConnector for sFlow and configuring the device for event collection.

Intended Audience

This guide provides information for IT administrators who are responsible for managing the ArcSight software and its environment.

Additional Documentation

The ArcSight SmartConnector documentation library includes the following resources:

- [Technical Requirements Guide for SmartConnector](#), which provides information about operating system, appliance, browser, and other support details for SmartConnector.
- [Installation and User Guide for SmartConnectors](#), which provides detailed information about installing SmartConnectors.
- [Configuration Guides for ArcSight SmartConnectors](#), which provides information about configuring SmartConnectors to collect events from different sources.
- [Configuration Guide for SmartConnector Load Balancer](#), which provides detailed information about installing Load Balancer.

For the most recent version of this guide and other ArcSight SmartConnector documentation resources, visit the [documentation site for ArcSight SmartConnectors 8.4](#).

Contact Information

We want to hear your comments and suggestions about this book and the other documentation included with this product. You can use the comment on this topic link at the bottom of each page of the online documentation, or send an email to MFI-Documentation-Feedback@opentext.com.

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Product Overview

sFlow is the leading, multi-vendor, standard for monitoring high-speed switched and routed networks. sFlow technology is built into network equipment and gives complete visibility into network activity, enabling effective management and control of network resources. sFlow supports traffic monitoring on Gigabit and higher-speed networks and provides scalability to allow one sFlow collector to monitor multiple sFlow agents.

sFlow has two components: an sFlow agent embedded in a switch, and a remote sFlow collector. The sFlow agent collects traffic statistics and packet information from the sFlow-enabled interfaces on the switch and encapsulates them into sFlow packets. When an sFlow packet buffer overflows, or an sFlow packet ages out (the aging time is one second), the sFlow agent sends the packet to the specified sFlow collector. The sFlow collector analyzes the sFlow packets and displays the results. sFlow has two sampling mechanisms:

- Flow sampling: Packet-based sampling, used to obtain packet content information.
- Counter sampling: Time-based sampling, used to obtain port traffic statistics.

The sflowtool is a component of the sFlow toolkit. For Windows, you can obtain the compiled sflowtool from the InMon website. For Linux, the sflowtool is part of the connector and is located in the `/bin/agent/InMon/sflowtool/linux` directory.



The sflowtool must be installed on a different box than the SmartConnector.

Use the following commands to specify where the packets are sent:

```
c:\sflowtool -p <sflow agent listening port> -c <IP Address> -d <port number> - for Windows
```

```
./ sflowtool -p <sflow agent listening port> -c <IP Address> -d <port number> - for Linux
```

Where `<IP Address>` is the IP address of the connector and `<port number>` is the port number of the connector.

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).

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 OpenText SSO site.

- 1 Download the SmartConnector executable for your operating system from the OpenText 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 Add a Connector 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. You can set the following parameters:

| Parameter | Setting |
|-------------------|--|
| FIPS mode | Select 'Enabled' 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 'Disabled'. |
| Remote Management | Select 'Enabled' 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 'Disabled'. |

| Parameter | Setting |
|---------------------------------|--|
| 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 | When 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. The initial setting is IPv4. |

The following parameters should be configured only if you are using OpenText SecureData solutions to provide encryption. See the *OpenText SecureData Architecture Guide* for more information.

| Parameter | Setting |
|------------------------------|--|
| Format Preserving Encryption | Data leaving the connector machine to a specified destination can be encrypted by selecting 'Enabled' to encrypt the fields identified in 'Event Fields to Encrypt' before forwarding events. If encryption is enabled, it cannot be disabled. Changing any of the encryption parameters again will require a fresh installation of the connector. |
| Format Preserving Policy URL | Enter the URL where the OpenText SecureData Server is installed. |
| Proxy Server (https) | Enter the proxy host for https connection if any proxy is enabled for this machine. |
| Proxy Port | Enter the proxy port for https connection if any proxy is enabled for this machine. |
| Format Preserving Identity | The OpenText SecureData client software allows client applications to protect and access data based on key names. This key name is referred to as the identity. Enter the user identity configured for OpenText SecureData. |
| Format Preserving Secret | Enter the secret configured for OpenText SecureData to use for encryption. |
| Event Fields to Encrypt | Recommended fields for encryption are listed; delete any fields you do not want encrypted and add any string or numeric fields you want encrypted. Encrypting more fields can affect performance, with 20 fields being the maximum recommended. Also, because encryption changes the value, rules or categorization could also be affected. Once encryption is enabled, the list of event fields cannot be edited. |

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 proceed with "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 **sFlow** and click **Next**.
- 3 Enter the required SmartConnector parameters to configure the SmartConnector, then click **Next**.

| Parameter | Description |
|-----------------|--|
| Flow Port | Enter the number of the port to which the SmartConnector will listen. |
| Flow IP Address | The connector listens to all IP addresses on the specified port; individual IP addresses cannot be specified at this time. |

Select a Destination

- 1 The next window asks for the destination type; select a destination and click **Next**. For information about the destinations listed, see the *ArcSight SmartConnector User Guide*.
- 2 Enter values for the destination. For the ArcSight Manager destination, the values you enter for **User** and **Password** should be 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 If you have selected ArcSight Manager as the destination, 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 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 Fields

The following section lists the mappings of ArcSight data fields to the device's specific event definitions. See the *ArcSight Console User's Guide* for more information about the ArcSight data fields.

sFlow Event Mappings to ArcSight ESM Fields

| ArcSight ESM Field | Device-Specific Field |
|------------------------|-----------------------|
| Bytes In | dOctets |
| Destination Address | dstaddr |
| Destination Port | dstport |
| Device Address | DeviceAddress |
| Device Custom Number 1 | count |
| Device Custom Number 2 | dPkts |
| Device Custom Number 3 | tcp_flags |
| Device Custom String 1 | nexthop |
| Device Custom String 2 | src_as |
| Device Custom String 3 | dst_as |
| Device Custom String 4 | src_mask |
| Device Custom String 5 | dest_mask |
| Device Custom String 6 | tcp_flags descr |
| Device Event Class ID | 'flow' |
| Device Product | 'sFlow' |
| Device Receipt Time | unix_secs |
| Device Vendor | 'sFlow' |
| Device Version | version |
| Name | 'sFlow Event' |

| ArcSight ESM Field | Device-Specific Field |
|--------------------|--|
| Source Address | srcaddr |
| Source Port | srcport |
| Transport Protocol | prot (1=ICMP, 2=IGMP, 4=IP, 6=TCP, 8=EGP, 9=IGP, 17=UDP, 41=IPv6, 43=IPv6-Route, 44=IPv6-Frag, 46=RSVP, 47=GRE, 50=ESP, 51=AH, 58=IPv6-ICMP, 59=IPv6-NoNxt, 60=IPv6-Opts, 88=EIGRP, 89=OSPF, 94=IPIP, 98=ENCAP, 115=L2TP, 118=STP, 124=ISIS) |

please confirm that when customer used MySQL JDBC driver 5.1.38, they had issue to receive events. And the workaround is to apply older driver 5.0.8, after that connector is able to receive events.

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Feedback on Configuration Guide for sFlow SmartConnector (SmartConnectors 8.4.3)

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