



ArcSight SmartConnectors

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Configuration Guide for TippingPoint SMS Syslog SmartConnector

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Configuration Guide for TippingPoint SMS Syslog SmartConnector

This guide provides information for installing the SmartConnector for TippingPoint SMS Syslog and configuring the device for syslog event collection. Support for SMS and IPS device audit events is also included. For supported devices and versions, see [Technical Requirements](#).



The CEF certified event format used in SMS 4.0 complies with the requirements of the ArcSight Common Event Format. "SmartConnector for ArcSight Common Event Format Syslog" processes all events correctly for SMS 4.0 and makes all events available for use within the ArcSight product.

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](#).

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Product Overview

The TippingPoint Security Management System (SMS) is a hardened appliance that provides global vision and control for multiple TippingPoint Intrusion Prevention Systems (IPS). The SMS is responsible for discovering, monitoring, configuring, diagnosing and reporting for multiple TippingPoint IPS systems.

Configuration

Configuring TippingPoint Syslog

The TippingPoint product has two types of devices, sensors and SMS devices, which act as the management console and central logging point. The SMS provides a separate syslog output format option that works with third-party network security devices and host applications. ArcSight currently supports only events sent to our connector from the SMS console, not the events sent directly to the connector from the sensor devices, as the two devices log in slightly different formats.

When configuring the SMS console for syslog event collection, make sure to:

- Select to receive syslog from **manager** instead of **device**.
- Set the Syslog format to **SMS v2.0 syslog Format** or **SMS v2.5 syslog Format**. Syslog format 2.5 is supported only with TippingPoint versions 3.2, 3.3, 3.5, and 3.6.
- Set up the syslog messages to be tab delimited (not pipe, semi colon, or comma).
- Set the **Include timestamp** in header radio button to none.
- Uncheck the **Include SMS hostname** in header box.

Configuring for the Syslog SmartConnectors

The syslog SmartConnectors use a sub-connector architecture that lets them receive and process syslog events from multiple devices. There is a unique regular expression that identifies the device. For example, the same SmartConnector can process events from a Cisco Router and a NetScreen Firewall simultaneously. The SmartConnector inspects all incoming messages and automatically detects the type of device that originated the message.

You can install the syslog SmartConnector as a syslog daemon, pipe, or file connector. You can use the Syslog Deamon, Syslog Deamon NG, or Syslog File connector types depending on your requirement. The Syslog File type SmartConnectors also support Syslog Pipe.

Syslog Daemon SmartConnector

The Syslog Deamon SmartConnector is a syslogd-compatible daemon designed to work in operating systems that have no syslog daemon in their default configuration, such as Microsoft Windows. The SmartConnector for Syslog Deamon implements a UDP receiver

on port 514 by default, or can be configured on another port to receive syslog events. You can also configure to use the TCP protocol.

To use the SmartConnector for Syslog Daemon, add the following statement in the *rsyslog.conf* file:

```
*.* @@(remote/local-host-IP):514
```

Example: local1.warning @@10.0.0.1:514

- To read all Syslog events, use *.*
- To filter specific events, replace regex with the specific event name.
- For example: *.* @@(remote/local-host-IP):514 and local1.warning @@10.0.0.1:514.
- To send events over a TCP connection, use @@ and to send events over an UDP connection, use @.

If you are running SmartConnector for Syslog Daemon on the same machine as the server, you must provide the IP address of the local host. If you want to forward events to other machines, you must provide the IP address of the same.

Messages longer than 1024 bytes might be split into multiple messages on syslog daemon. No such restriction exists on syslog file or pipe.

Syslog Pipe and File SmartConnectors

When a syslog daemon is already in place and configured to receive syslog messages, an extra line in the syslog configuration file *rsyslog.conf* can be added to write the events to either a file or a system pipe and the ArcSight SmartConnector can be configured to read the events from it. In this scenario, the ArcSight SmartConnector runs on the same machine as the syslog daemon. The additional configurations for the ArcSight syslog file or syslog pipe SmartConnectors in the system where all Syslog Daemon SmartConnector configurations are done.

The Syslog Pipe SmartConnector is designed to work with an existing syslog daemon. This SmartConnector is especially useful when storage is a factor. In this case, syslogd is configured to write to a named pipe, and the Syslog Pipe SmartConnector reads from it to receive events.

The Syslog File SmartConnector is similar to the Pipe SmartConnector. However, this SmartConnector monitors events written to a syslog file such as *messages.log* rather than to a system pipe.

Using the SmartConnector for Syslog Pipe or File

This section provides information to set up your existing syslog infrastructure to send events to the ArcSight Syslog Pipe or File SmartConnector.

The standard UNIX implementation of a syslog daemon reads the configuration parameters from the `/etc/rsyslog.conf` file, which contains specific details about which events to write to files, write to pipes, or send to another host.

For Syslog Pipe:

1. Execute the following command to create a pipe:

```
mkfifo /var/tmp/syspipe
```

2. Add one of the following lines depending on your OS to the `/etc/rsyslog.conf` file:

```
*.debug /var/tmp/syspipe
```

or

```
*.debug | /var/tmp/syspipe
```

3. Restart the syslog daemon in one of the following methods:
Enter the following commands:

```
/etc/init.d/syslogd stop  
/etc/init.d/syslogd start
```

or

Execute the following command to send a configuration restart signal:

On RedHat Linux:

```
service syslog restart
```

On Solaris:

```
kill -HUP `cat /var/run/syslog.pid`
```

For Syslog File:

1. Create a file or use the default file into which log messages must be written.
2. Modify the `/etc/rsyslog.conf` file

The syslog daemon is forced to reload the configuration and start writing to the pipe.

3. Restart the syslog daemon in one of the following methods:
 - a. Restart the syslog daemon in one of the following methods:
Enter the following commands:

```
/etc/init.d/syslogd stop  
/etc/init.d/syslogd start
```

or

Execute the following command to send a configuration restart signal:

On RedHat Linux:

```
service syslog restart
```

On Solaris:

```
kill -HUP `cat /var/run/syslog.pid`
```

Installing the SmartConnector

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

Preparing to Install the SmartConnector

Before you install any SmartConnectors, make sure that the OpenText ArcSight products with which the connectors will communicate have already been installed correctly (such as ArcSight ESM or ArcSight Logger).

For complete product information, refer to the *Administrator's Guide to ArcSight Platform*, available on [ArcSight Documentation](#).

If you are adding a connector to the ArcSight Management Center, see the *ArcSight Management Center Administrator's Guide* available on [ArcSight Documentation](#) for instructions.

Before installing the SmartConnector, make sure that the following are available:

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

Installing and Configuring the SmartConnector

1. Start the installation wizard.
2. Follow the instructions in the wizard to install the core software.
3. Specify the relevant [Global Parameters](#), when prompted.
4. Do one of the following depending on your requirement:

- Select **Syslog Daemon** from the **Type** drop-down:
 - a. Click **Next**, then specify the following parameters:

Parameters	Description
Network port	The SmartConnector for Syslog Daemon listens for syslog events from this port.
IP Address	The SmartConnector for Syslog Daemon listens for syslog events only from this IP address, apart from the default (ALL) to bind to all available IP addresses.
Protocol	Specify whether to read files in batch mode or real-time mode. In batch mode, all files are read from the beginning.
Forwarder	This option applies to Batch Mode only. Specify None , Rename , or Delete as the action to be performed to the file when the connector finishes reading and reaches end of file . For the real-time mode, retain the default value None .

- b. Click **Next**.
- Select **Syslog File** from the **Type** drop-down:

a. Click **Next**, then specify the following parameters:

Parameters	Description
Pipe Absolute Path Name	Specify an absolute path to the pipe, or accept the default value: <code>/var/tmp/syspipe</code> .
File Absolute Path Name	<p>Specify the full path name for the file from which this connector will read events. The following are default values:</p> <ul style="list-style-type: none">• Solaris: <code>\var\adm\messages</code>• Linux: <code>\var\log\messages</code> <p>You can use a wildcard pattern in the file name.</p> <p>In the real-time mode, rotation can occur only if the file is over-written or removed from the folder. The real-time processing mode assumes the following external rotation:</p> <ul style="list-style-type: none">• Date format log rotation: The device creates a new log at a specified time in the with the naming convention <code>filename.timestamp.log</code>. The connector detects the new log and terminates the reader thread to the previous log after the processing is complete. The connector then creates a new reader thread to the new <code>filename.timestamp.log</code> and begins processing that file. To enable this log rotation, specify timestamp in <code>yyyy-MM-dd</code> date format. For example, <code>filename.yyyy-MM-dd.log</code>• Index log rotation: The device writes to indexed files in the following format: <code>filename.log.001</code>, <code>filename.log.002</code>, <code>filename.log.003</code>, and so on. At startup, the connector processes the log with highest index. When the device creates a log with a greater index, the connector terminates the reader thread to the previous log after processing completes, creates a thread to the new log, and begins processing that log. To enable this log rotation, use an index format, as shown in the following example: <code>filename'%d,1,99,true'.log</code>; Specifying <code>true</code> indicates that the index can be skipped. For example, if 5 appears before 4, processing proceeds with 5 and will not read 4. Use of <code>true</code> is optional.

Parameters	Description
Reading Events Real Time or Batch	Specify whether to read files in batch mode or real-time mode. In batch mode, all files are read from the beginning.
Action Upon Reaching EOF	This option applies to Batch Mode only. Specify None , Rename , or Delete as the action to be performed to the file when the connector finishes reading and reaches end of file . For the real-time mode, retain the default value None .
File Extension If Rename Action	This option applies to Batch Mode only. Specify the extension to be added to the file name if the action on reaching the end of file is specified as Rename . The default value is Processed , which adds a <code>.processed</code> extension.

b. Click **Next**.

5. Select a [destination and configure parameters](#).
6. Specify a name for the connector.
7. (Conditional) 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 then click **Next**. The certificate is imported and the **Add connector Summary** window is displayed.



Note: If you select Do not import the certificate to connector from destination, the connector installation will end.

8. Select whether you want to install the connector as a service or in the standalone mode.
9. Complete the installation.
10. [Run the SmartConnector](#).

For instructions about upgrading the connector or modifying parameters, see [Installation and User Guide for SmartConnector](#).

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.

TippingPoint Syslog Format 2.5 Mappings

ArcSight ESM Field	Device-Specific Field
Agent (Connector) Severity	Very High = Critical; High = Major; Medium = Low or Minor; Low = Normal
Application Protocol	protocol
Base Event Count	evtcount
Destination Address	dstip
Destination Port	dstport
Device Action	actiontype (7=Permit, 8=Block, 9=P2P, 12=Quarantine)
Device Custom IPv6 Address 2	srcip
Device Custom IPv6 Address 3	dstip
Device Custom Number 1	vlanid
Device Custom Number 2	alarmid
Device Custom String 2	policyUUID
Device Custom String 3	signatureUUID
Device Custom String 4	Both (srczonename, dstzonename)
Device Custom String 5	_SYSLOG_SENDER (Device Name)
Device Custom String 6	querieddomain
Device Event Class ID	appid
Device Host Name	devicename (SMS Host Name)
Device Inbound Interface	phyport
Device Product	'SMS'
Device Receipt Time	apptimestamplong
Device Severity	appseverity (0=Normal, 1=Low, 2=Minor, 3=Major, 4=Critical, 5=Critical)

ArcSight ESM Field	Device-Specific Field
Device Vendor	'TippingPoint'
External ID	seqnumber
Name	message
Source Address	srcip
Source Port	srcport
Transport Protocol	protocol

TippingPoint Syslog Format 2.0 Mappings

ArcSight ESM Field	Device-Specific Field
Application Protocol	protocol
Base Event Count	Evtcount
Destination Address	dstIP
Destination Port	dstport
Device Action	Action Type (7=Permit, 8=Block, 9=P2P)
Device Custom Number 1	alarmID
Device Custom String 2	policyUUID
Device Custom String 3	signatureUUID
Device Custom String 4	devicesegment
Device Custom String 5	devicename
Device Event Class ID	appID
Device Inbound Interface	deviceslot
Device Product	'SMS'
Device Receipt Time	apptimestamplong
Device Severity	App Severity (0=Normal, 1=Low, 2=Minor, 3=Major, 4=Critical, 5=Critical)
Device Vendor	'TippingPoint'
Name	Message
Source Address	srcIP
Source Port	srcport
Transport Protocol	protocol

TippingPoint Syslog Device Audit Mappings

ArcSight ESM Field	Device-Specific Field
Agent (Connector) Severity	Medium = FAIL; Low = PASS
Destination Address	destination IP
Destination Port	destination port number
Destination User Name	deviceUser
Device Action	Device Action
Device Custom Date 1	Rotation start date
Device Custom Date 2	Rotation end date
Device Custom IPv6 Address 2	Source IPv6 Address
Device Custom String 5	Device Name
Device Event Category	category
Device Event Class ID	Short description of the message field
Device Inbound Interface	interface
Device Product	'SMS'
Device Severity	result
Device Vendor	'TippingPoint'
Event Outcome	Status
Message	message
Name	Short description of the message field
Source Address	sourceIp

TippingPoint Syslog SMS Audit Mappings

ArcSight ESM Field	Device-Specific Field
Agent (Connector) Severity	Medium = fail; Low = success
Destination Address	destination IP
Device Action	action
Device Custom IPv6 Address 2	Source IPv6 Address

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Device Event Mapping to ArcSight Fields

ArcSight ESM Field	Device-Specific Field
Device Custom Number 1	Session ID
Device Custom String 1	ActionSet rule
Device Custom String 3	Signature version
Device Custom String 5	Device Name
Device Event Class ID	Short description of the description field
Device Inbound Interface	interface
Device Product	'SMS'
Device Receipt Time	eventtimestamp
Device Severity	status
Device Vendor	'TippingPoint'
Event Outcome	status
Message	description
Name	Short description of the description field
Source Address	clientAddress
Source Host Name	clientAddress
Source Port	clientPort
Source User Name	username
Transport Protocol	protocol

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