



ArcSight SmartConnectors

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Configuration Guide for Top Layer Attack Mitigator Syslog SmartConnector

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Configuration Guide for Top Layer Attack Mitigator Syslog SmartConnector

This guide provides information for installing the SmartConnector for Top Layer Attack Mitigator Syslog and configuring the device for event collection. For supported devices and versions, see [Technical Requirements](#).

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

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Product Overview

The Top Layer Attack Mitigator has been designed to deliver non-disruptive protection against risks and losses associated with cyber threats and network attacks.

Configuration

Configuring the Top Layer Attack Mitigator Device

To configure the Attack Mitigator device to send events to the ArcSight SmartConnector:

1. Login to the web interface on the Top Layer Attack Mitigator device.
2. Navigate to **Log > Syslog > Settings**.
3. Click **Add**.
4. In the **IP Address** field of the **Add** dialog box, enter the IP address of the Log Host.
5. In the **UDP Port** field, enter the port to which the syslog daemon is listening.
6. In the **Facility** field, enter the syslog facility. Make sure that you correctly identify the facility in the log host to direct it to a file or pipe that ArcSight can access.
7. Set the **Mode** field to **Enabled**.
8. Click **Done**. Save the configuration once you have completed the steps.

Configuring 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>; <p>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.</p>

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.

Top Layer Attack Mitigator NG Field Mappings

ArcSight ESM Field	Device-Specific Field
Application Protocol	app
ArcSight Severity (High)	malicious
ArcSight Severity (Low)	unknown or trusted
ArcSight Severity (Medium)	suspicious
Bytes In	cbtx
Bytes Out	sbtx
Destination Address	sip
Destination Host Name	sname or host
Destination MacAddress	smac
Destination Port	sprt
Destination User Name	user
Destination User Privileges	monitor=User or privileged=Administrator
Device Action	disp
Device Action	res
Device Custom Date 1	time (RealTimeClock)
Device Custom String 1	Rule
Device Custom String 2	AttackName
Device Custom String 3	cz (Client Zone)
Device Custom String 4	sz (ServerZone)
Device Custom String 5	uz (UserZone)
Device Custom String 6	term (Terminating Reason)

ArcSight ESM Field	Device-Specific Field
Device Direction	src ('intern' = inbound, 'extern' = outbound)
Device Event Category	type
Device Event Class ID	id
Device Inbound Interface	cckt
Device Outbound Interface	One of (ckt, sckt)
Device Outbound Interface	sckt
Device Product	'Attack Mitigator'
Device Receipt Time	ctd
Device Severity	thret, or 'unknown'
Device Vendor	'TopLayer'
Device Version	bld
File Path	path
Message	message
Name	msg or atck
Request Method	op
Request URL	uri
Request URL File Name	arg
Source Address	cip
Source Host Name	cname
Source Mac Address	cmac
Source Port	cppt
Transport Protocol	prot

Top Layer Attack Mitigator Mappings to ArcSight ESM Fields

ArcSight ESM Field	Device-Specific Field
ArcSight Severity (High)	Mitigate
ArcSight Severity (Low)	Monitor

ArcSight ESM Field	Device-Specific Field
Custom String 1	AttackType
Custom String 2	thret or Info
Detect Time	ctd
Device Action	oper or disp
Device Process Name	app
Device Process Name	bld
Device Product	'Attack Mitigator'
Device Severity	Mitigate or Monitor
Device Vendor	'TopLayer'
Event Name	AttackType
External ID	id
File Path	path
Name	msg
Protocol	prot
Service	app
Source Address	cip
Source Address	SourceAddress
Source Port	cppt
Source User ID	user or cname
Source User Name	SourceUserName
Target Address	sip
Target Host Name	host
Target Port	sprt
Target User ID	sname
Target Web Args	arg
Target Web Method	op
Target Web URL	uri

Attack Mitigator NG Additional Data Fields

AdminStatus=adm	BytesDropped=bd	Bandwidth=bw
Cause=cause	CarbonCopyPort1=cc1	CarbonCopyPort2=cc2
CarbonCopyPort3=cc3	CarbonCopyPort4=cc4	ConfigurationItem=cfg
Chip=chip	Count=cnt	Code=code
PacketsIn=cptx	CSR=csr	Current=curr
deviceCustomString3=cz	Device=dev	DuplexSetting=dup
Duration=dur	Engine=eng	EthFramType=et
FlowId=fid	Flags=flags	ForwardingState=fwd
Identifier=ident	Interval=intvl	MTU=mtu
Number=num	IpOffset=off	OperationalStatus=oper
Option=opt	Previous=prev	QOS=qos
RedundantOperationalStatus=red	ReferringSite=ref	ReleaseStatus=rel
SerialNumber=ser	Speed=spd	PacketsOut=sptx
SpanningTree=st	State=state	Threshold=thrsh
TTL=ttl	Uptime=upt	VlanTag=vlan

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