



ArcSight SmartConnectors

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Configuration Guide for Cisco Meraki Syslog SmartConnector

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Configuration Guide for Cisco Meraki Syslog SmartConnector

This guide provides information for installing the SmartConnector for Cisco Meraki Syslog and configuring the IOS device for syslog 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

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Product Overview

Cisco Meraki Software is a cloud-managed networking solution with wireless, switching, security, WAN optimization, and MDM, centrally managed over the web, built from the ground up for cloud management. Cisco Meraki is the leader in cloud-managed networking and among Cisco's fastest-growing portfolios: over 100% annual growth and tens of millions of devices connected worldwide.

Configuration

Configuring the Device to Store Messages

To configure a Cisco Meraki device to store messages for reporting purposes from MX security appliances, MR access points, and MS switches:

1. From the Meraki dashboard, navigate to **Network-Wide > Configure > General**.
2. Go to **Reporting > Syslog server configurations**, then click the **Add a syslog server** link to define a new server.
3. Configure the IP address of your syslog server, the UDP port the server is listening on, and the roles you wish to be reported to the server.
4. If the Flows role is enabled for Meraki MX reporting, logging for individual firewall rules can be enabled/disabled on the **Security appliance > Configure > Firewall** page (Optional for Meraki MX reporting).

Additional Considerations for Syslog

Syslog messages can take up a large amount of disk space, especially when collecting flows. When deciding on a host to run the syslog server, make sure that you have enough storage space on the host to hold the logs. Consult the syslog-ng man page for further information on only keeping logs for a certain amount of time.

If the environment has multiple MX devices using site-to-site VPN, and logging is done to a syslog server on the remote side of the VPN, that traffic will be subject to the site-to-site firewall.

Note that it might be necessary to create a Site-to-site firewall rule to allow the syslog traffic through. To do this, go to **Security appliance > Configure > Site-to-site VPN > Organization-wide settings > Add a rule**.

Follow the instructions in the following sections to enable timestamps and system message logging, and to set the syslog destination, severity level, and syslog facility.

Enabling Time-Stamps on Log Messages

By default, log messages are not time-stamped. To enable time-stamping of log messages and debug messages, use the following commands in global configuration mode:

```
Router(Config)#service timestamps log datetime localtime
Router(Config)#service timestamps debug datetime localtime
```

Enabling System Message Logging

System message logging is enabled by default. It must be enabled to send messages to any destination other than the console. To reenble message logging after it has been disabled, use the following command in global configuration mode:

```
Router(config)#logging on
```

Setting the Syslog Destination

To identify the syslog server that is to receive logging messages, use the following command in global configuration mode:

```
Router(config)#logging host
```

The *host* argument is the name or IP address of the host. By issuing this command more than once, you build a list of syslog servers that receive logging messages. The `no logging` command deletes the syslog server with the specified address from the list of syslogs.

Limiting the Error Message Severity Level

You can limit the number of messages by specifying the severity level of the error message. Use the following command in global configuration mode:

```
Router(config)#logging trap Level
```

Keyword	Level	Description	Syslog Def
emergencies	0	System unusable	LOG_EMERG
alerts	1	Immediate action needed	LOG_ALERT
critical	2	Critical conditions	LOG_CRIT
errors	3	Error conditions	LOG_ERR
warnings	4	Warning conditions	LOG_WARNING
notifications	5	Normal but significant condition	LOG_NOTICE
informational	6	Informational messages only	LOG_INFO
debugging	7	Debugging messages	LOG_DEBUG

Defining the UNIX System Logging Facility

You can log messages produced by UNIX system utilities. Enable this type of logging and define the UNIX system facility from which you want to log messages. Consult the operator manual for your UNIX operating system for more information about these UNIX system facilities.

To define UNIX system facility message logging, use the following command in global configuration mode:

```
Router(config)#logging facility facility-type
```

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 Daemon, Syslog Daemon NG, or Syslog File connector types depending on your requirement. The Syslog File type SmartConnectors also support Syslog Pipe.

Syslog Daemon SmartConnector

The Syslog Daemon 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 Daemon 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

Unless specified otherwise at the beginning of this guide, this SmartConnector can be installed on all ArcSight supported platforms.

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.

Common Mappings to ArcSight ESM Events

ArcSight ESM Field	Device-Specific Field
Device Action	Action
Device Custom Number 2	eventType
Device Event Category	eventType
Device Event Class ID	__concatenate(eventType," ",_oneOf(action,extraAction))
Device Host Name	deviceHostName
Device Product	Meraki Access Point
Device Receipt Time	__concatenate(time,second)
Device Vendor	'CISCO'
Message	Message
Name	__concatenate(eventType," ",_oneOf(action,extraAction))
Request Url	requestUrl

Cho event type flows, urls, ip_flow_start Mappings to ArcSight ESM Events

ArcSight ESM Field	Device-Specific Field
Destination Address	dst
Destination Port	oneOf(dport,dst)
Destination Translated Address	translated_dst_ip
Destination Translated Port	translated_port
Device Custom Number 1	type

ArcSight ESM Field	Device-Specific Field
Device Custom Number 1 Label	Type
Request Client Application	agent
Source Address	src
Source Mac Address	mac
Source Port	oneOf(sport,src)
Transport Protocol	protocol

Type events & airmarshal_eventst Mappings to ArcSight ESM Events

ArcSight ESM Field	Device-Specific Field
Destination Address	dst
Destination Port	oneOf(dport,dst)
Destination Translated Address	translated_dst_ip
Destination Translated Port	translated_port
Device Custom Number 1	type
Device Custom Number 1 Label	Type
Request Client Application	agent
Source Address	src
Source Mac Address	mac
Source Port	oneOf(sport,src)
Transport Protocol	protocol

Type events & airmarshal_eventst with type = 8021x_auth Mappings to ArcSight ESM Events

ArcSight ESM Field	Device-Specific Field
Device Custom Number 1	radio
Device Custom Number 1 Label	Radio
Device Custom Number 2	vap
Device Custom Number 2 Label	Virtual Access Point
Device Custom Number 3	aid
Device Custom Number 3 Label	Association ID
Source Address	client_ip
Source Mac Address	client_mac
Source User Name	identity

Type events & airmarshal_eventst with type = 8021x_eap_success Mappings to ArcSight ESM Events

ArcSight ESM Field	Device-Specific Field
Device Custom Number 1	radio
Device Custom Number 1 Label	Radio
Device Custom Number 2	vap
Device Custom Number 2 Label	Virtual Access Point
Device Custom Number 3	aid
Device Custom Number 3 Label	Association ID

ArcSight ESM Field	Device-Specific Field
Source Address	client_ip
Source Mac Address	client_mac
Source User Name	identity

Type events & airmarshal_eventst with type = association Mappings to ArcSight ESM Events

ArcSight ESM Field	Device-Specific Field
Device Custom Number 1	radio
Device Custom Number 1 Label	Radio
Device Custom Number 2	vap
Device Custom Number 2 Label	Virtual Access Point
Device Custom Number 3	aid
Device Custom Number 3 Label	Association ID
Device Custom String 2	channel
Device Custom String 2 Label	Channel
Device Custom String 3	rssi
Device Custom String 3 Label	Received Signal Strength Indication
Source Address	client_ip
Source Mac Address	client_mac

Type events & airmarshal_eventst with type = association_reject Mappings to ArcSight ESM Events

ArcSight ESM Field	Device-Specific Field
Destination Address	best_ap
Device Custom Number 1	load

ArcSight ESM Field	Device-Specific Field
Device Custom Number 1 Label	Load
Device Custom Number 2	best_ap_load
Device Custom Number 2 Label	Best Ap Load
Device Custom Number 3	best_ap_rssi
Device Custom Number 3 Label	Best Ap Rssi

Type events & airmarshal_eventst with type = cli_set_rad_parms Mappings to ArcSight ESM Events

ArcSight ESM Field	Device-Specific Field
Device Custom Number 1	radio
Device Custom Number 1 Label	Radio
Device Custom Number 2	vap
Device Custom Number 2 Label	Virtual Access Point
Device Custom Number 3	vlan
Device Custom Number 3 Label	Vlan
Device Custom String 3	rtt
Device Custom String 3 Label	Round Trip Time
Device Custom String 4	attr
Device Custom String 4 Label	Attribute

Type events & airmarshal_eventst with type = disassociation Mappings to ArcSight ESM Events

ArcSight ESM Field	Device-Specific Field
Device Custom Number 1	radio
Device Custom Number 1 Label	Radio
Device Custom Number 2	vap
Device Custom Number 2 Label	Virtual Access Point
Device Custom Number 3	vlan
Device Custom Number 3	aid
Device Custom Number 3 Label	Vlan
Device Custom Number 3 Label	Association ID
Device Custom String 2	channel
Device Custom String 2 Label	Channel
Device Custom String 4	dns_server
Device Custom String 4 Label	DNS Server
Device Custom String 5	concatenate("dhcp_ip: ",dhcp_ip," dhcp_server: ",dhcp_server," dhcp_server_mac: ",dhcp_server_mac)
Device Custom String 5 Label	DHCP Information
Reason	reason
Source Address	ip_src
Source Mac Address	client_mac
Source User Name	identity

Type events & airmarshal_eventst with type = 8021x_deauth Mappings to ArcSight ESM Events

ArcSight ESM Field	Device-Specific Field
Device Custom Number 1	radio
Device Custom Number 1 Label	Radio
Device Custom Number 2	vap
Device Custom Number 2 Label	Virtual Access Point
Device Custom Number 3	aid
Device Custom Number 3 Label	Association ID
Source Address	client_ip
Source Mac Address	client_mac
Source User Name	identity

Type events & airmarshal_eventst type with multiple_dhcp_servers_detected Mappings to ArcSight ESM Events

ArcSight ESM Field	Device-Specific Field
Destination Address	server_ip
Destination Mac Address	server_mac
Device Custom Number 2	vap
Device Custom Number 2 Label	Virtual Access Point
Source Address	original_server_ip
Source Mac Address	original_server_mac

Type events & airmarshal_eventst type = radius_ mac_auth Mappings to ArcSight ESM Events

ArcSight ESM Field	Device-Specific Field
Device Custom Number 1	radio
Device Custom Number 1 Label	Radio
Device Custom Number 2	vap
Device Custom Number 2 Label	Virtual Access Point
Event Outcome	resp

Type events & airmarshal_eventst with type = rogue_ ssid_detected Mappings to ArcSight ESM Events

ArcSight ESM Field	Device-Specific Field
Destination Mac Address	dst
Device Custom Number 1	vlan_id
Device Custom Number 1 Label	Vlan ID
Device Custom Number 2	fc_type
Device Custom Number 2 Label	FC Type
Device Custom Number 3	fc_subtype
Device Custom Number 3 Label	FC SubType
Device Custom String 2	channel
Device Custom String 2 Label	Channel
Device Custom String 3	rss
Device Custom String 3 Label	Received Signal Strength Indication
Device Custom String 4	ssid

ArcSight ESM Field	Device-Specific Field
Device Custom String 4 Label	SSID
Device Custom String 5	bssid
Device Custom String 5 Label	BSSID
Device Custom String 6	wired_mac
Device Custom String 6 Label	Wired Mac
Source Mac Address	src

Type events & airmarshal_eventst with type = splash_auth Mappings to ArcSight ESM Events

ArcSight ESM Field	Device-Specific Field
bytesIn	download
bytesOut	upload
Device Custom Number 1	duration
Device Custom Number 1 Label	Duration
Device Custom Number 2	vap
Device Custom Number 2 Label	Virtual Access Point
Device Custom Number 3	wired_vlan
Device Custom Number 3 Label	Wired Vlan
Source Mac Address	mac

Type events & airmarshal_eventst with type = wpa_auth Mappings to ArcSight ESM Events

ArcSight ESM Field	Device-Specific Field
Device Custom Number 1	radio
Device Custom Number 1 Label	Radio

ArcSight ESM Field	Device-Specific Field
Device Custom Number 2	vap
Device Custom Number 2 Label	Virtual Access Point
Device Custom Number 3	aid
Device Custom Number 3 Label	Association ID
Source Address	client_ip
Source Mac Address	client_mac

Type events & airmarshal_eventst with type = wpa_deauth Mappings to ArcSight ESM Events

ArcSight ESM Field	Device-Specific Field
Device Custom Number 1	radio
Device Custom Number 1 Label	Radio
Device Custom Number 2	vap
Device Custom Number 2 Label	Virtual Access Point
Device Custom Number 3	aid
Device Custom Number 3 Label	Association ID
Source Address	client_ip
Source Mac Address	client_mac

Type events & airmarshal_eventst with type = ssid_spoofing_detected Mappings to ArcSight ESM Events

ArcSight ESM Field	Device-Specific Field
Destination Mac Address	dst
Device Custom Number 2	vap

ArcSight ESM Field	Device-Specific Field
Device Custom Number 2	fc_type
Device Custom Number 2 Label	Virtual Access Point
Device Custom Number 2 Label	FC Type
Device Custom Number 3	fc_subtype
Device Custom Number 3 Label	FC SubType
Device Custom String 2	channel
Device Custom String 2 Label	Channel
Device Custom String 4	ssid
Device Custom String 4 Label	SSID
Device Custom String 5	bssid
Device Custom String 5 Label	BSSID
Source Mac Address	src

Type events & airmarshal_eventst with type = device_packet_flood Mappings to ArcSight ESM Events

ArcSight ESM Field	Device-Specific Field
Destination Mac Address	device
Device Custom Number 1	radio
Device Custom Number 1 Label	Radio
Device Custom Number 2	alarm_id
Device Custom Number 2 Label	Alarm ID
Device Custom Number 3	dos_count
Device Custom Number 3 Label	DOS Count

ArcSight ESM Field	Device-Specific Field
Device Custom String 3	packet
Device Custom String 3 Label	Packet
Device Custom String 4	state
Device Custom String 4 Label	State
Device Custom String 5	inter_arrival
Device Custom String 5 Label	Inter Arrival
reason	reason

Type events & airmarshal_eventst with type = 8021x_eap_failure Mappings to ArcSight ESM Events

ArcSight ESM Field	Device-Specific Field
Device Custom Number 1	radio
Device Custom Number 1 Label	Radio
Device Custom Number 2	vap
Device Custom Number 2 Label	Virtual Access Point
Device Custom Number 3	aid
Device Custom Number 3 Label	Association ID
Source User Name	identity

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Feedback on Configuration Guide for Cisco Meraki Syslog SmartConnector (SmartConnectors 8.4.3)

Just add your feedback to the email and click send.

If no email client is available, copy the information above to a new message in a web mail client, and send your feedback to MFI-Documentation-Feedback@opentext.com.

We appreciate your feedback!