



ArcSight SmartConnectors

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Configuration Guide for Cisco IronPort Web Security Syslog SmartConnector

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Open Text Corporation

275 Frank Tompa Drive, Waterloo, Ontario, Canada, N2L 0A1

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Configuration Guide for Cisco IronPort Web Security Syslog SmartConnector

This guide provides information for installing the SmartConnector for Cisco IronPort Web Security Syslog 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

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Product Overview

The Cisco IronPort Web Security Appliance intercepts and monitors internet traffic and secures your internal network from malware, sensitive data loss, productivity loss, and other internet-based threats.

Configuration

Configuring the Device to Log Events

Log files can be retrieved based on the Syslog Push file transfer protocol. This method sends log messages to a remote syslog server. You must submit a hostname for the syslog server and choose to use either UDP or TCP for log transmission. Valid values for maximum message size for UDP are 1024 to 9216. For TCP, valid values are 1024 to 65535. Maximum message size depends on the syslog server configuration. The port used is 514. A facility can be selected for the log; however, a default for the log type is pre-selected in the drop-down menu. Only text-based logs can be transferred using syslog push.

For detailed information about Cisco IronPort Web Security appliance log files, see the *AsyncOS 9.0 for Cisco Web Security Appliances User Guide* at the following URL: http://www.cisco.com/c/dam/en/us/td/docs/security/wsa/wsa9-0/WSA_9-0-0_UserGuide.pdf.

Log Subscriptions

Log subscriptions create log files that are rotated based on a maximum time or maximum file size. A log subscription is either delivered to (pushed) or retrieved from (polled) another computer. The following list describes the fields on the Log Subscription window.

Use the **Log Subscriptions** page on the **System Administration** tab or the `logconfig` command in the CLI to configure a log subscription.

Log type: Defines the type of information recorded and the format of the log subscription.

Name: Nickname for the log subscription to be used for your future reference.

Rollover by File Size: The maximum size the file can reach before rolling over.

Rollover by Time: Sets the time interval for file rollovers.

Log level: Sets the level of detail for each log subscription.

Retrieval Method: Defines how the log subscription is to be transferred from the IronPort appliance.

Log Filename: Used for the physical name of the file when written to disk. If multiple IronPort appliances are being used, the log filename should be unique to identify the system that generated the log file.

Creating a Log Subscription in the GUI

To create a log subscription:

1. Go to **System Administration > Log Subscription**.
2. Click **Add Log Subscription**.
3. Select a **log type** and enter a name for the **log name** field for the log directory as well as the name for the log file itself.
4. Specify the **time interval** or the **file size** between rollovers.
5. Specify the **log style**, either Squid, Apache, or Squid Details.
6. Select a **log level**.
Options available include: Critical, Warning, Information, Debug, or Trace.
7. Configure the **log retrieval method** as syslog push.
8. Specify the syslog server hostname, either UDP or TCP for log transmission, the maximum file size, and the facility to use with the log.
9. Submit and commit your changes.

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 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>; 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.

Cisco IronPort Web Security Syslog Mappings to ArcSight ESM Fields

| ArcSight ESM Field | Device-Specific Field |
|----------------------------|--|
| Agent (Connector) Severity | high = 400...603, medium = 300...399, low = 100...299, 000 |
| Bytes In | total-bytes |
| Destination Host Name | data-source |
| Destination User Name | authenticated-user |
| Device Action | One of (action-taken, result-code) |
| Device Custom String 3 | acl-decision-tag (ACL Decision Tag) |
| Device Custom String 5 | hierarchy-retrieval (Hierarchy Retrieval) |
| Device Event Class Id | http-reponse-code |
| Device Product | 'IronPort Web Security Appliance' |
| Device Receipt Time | date |
| Device Severity | http-reponse-code |
| Device Vendor | 'CISCO' |
| File Type | content-type |
| Name | One of (action-taken, result-code) |
| Request Client Application | user-agent |
| Request Method | request-method |
| Request Url | uri |
| Source Address | client-ip |

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