



ArcSight SmartConnector

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Configuration Guide for OpenText Network Detection & Response (Bricata) SmartConnector

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Configuration Guide for OpenText Network Detection & Response (Bricata) SmartConnector

This guide provides information for installing the SmartConnector for OpenText Network Detection & Response (Bricata) and configuring the device for syslog 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

OpenText Network Detection & Response (NDR) is an advanced platform for network detection and response solutions for enterprises. OpenText NDR provides organizations with 360-degree protection, end-to-end visibility and context for direct answers, and powerful insight to take immediate action. The solution provides complete visibility of east-west traffic across network environments in real time and full-spectrum threat detection that extracts and stores high-fidelity metadata, including an indexed threat hunting repository. A multi-faceted suite of best-in-breed threat detection allows organizations to thoroughly inspect network traffic from every angle. Users can find unknown, hidden threats to conduct retrospective network traffic analysis and historical data testing to determine if threats have infiltrated the environment prior to known indicators being available. They can use meaningful visualizations and flexible network views to see everything in a single pane of glass or create custom views. With seamless response and extensive integrations, organizations can correlate alerts in real time, enrich existing workflows, automate responses and prevent threats. OpenText NDR is the only end-to-end network detection and response platform that allows both security teams and the entire enterprise to collaborate better, reduce security risk, and solve network problems faster than ever before.

Salient Features of OpenText NDR:

- Empowers high-performance enterprise security teams with total visibility into network traffic.
- Helps in fusing detection, forensic analysis, and proactive threat hunting.
- Empowers security teams to effectively defend against known threats and to identify those otherwise unseen using signature inspection, stateful anomaly detection, and machine learning-powered malware conviction.

Configuration

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.

Syslog Installation

Install this SmartConnector (on the syslog server or servers identified in the Configuration section) using the SmartConnector Installation Wizard appropriate for your operating system. The wizard will guide you through the installation process. When prompted, select one of the following Syslog connectors (see Configure the Syslog SmartConnectors in this guide for more information):

- Syslog Daemon
- Syslog Pipe
- Syslog File

Because all syslog SmartConnectors are sub-connectors of the main syslog SmartConnector, the name of the specific syslog SmartConnector you are installing is not required during installation.

The syslog daemon connector by default listens on port 514 (configurable) for UDP syslog events; you can configure the port number or use of the TCP protocol manually. The syslog pipe and syslog file connectors read events from a system pipe or file, respectively. Select the one that best fits your syslog infrastructure setup.

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** and specify the following parameters:

Parameter	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**, and specify the following parameters:

Parameter	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>

Parameter	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 .processed 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](#).

Post-Installation Configuration

OpenText NDR facilitates the export of three types of events which are alerts, metadata, and health events, from either the Central Management Console (CMC) or the sensor to various Security Information and Event Management (SIEM) destinations. To enable this functionality, the network configuration must permit the transmission of these events from the CMC or sensor to the designated SIEM ports. Currently, the Syslog Connector has been expanded to include support for Alerts. This section outlines the steps to configure the system for exporting events from the CMC to the Syslog Connector.

Perform the following steps to create a system export configuration:

1. Navigate to **System > Configuration > CMC Event Export(s)** in the main navigation menu.
2. Click **+EXPORT** on the action bar to generate a default export configuration.
3. Enter a name for the configuration in **Export Configuration Name**. Select **Default** export template from the Templates, and click **CREATE**. This will display the export configuration name and template values in the **Exports** view. The system will now populate the new configuration with the default settings.
4. Click **configuration** to view more details and make required modifications. The system permits the selection of one of event types for export.
5. The following are the event types: Alerts, Metadata, Health Alerts.
6. Select **ALERTS** as the event type and clear the Metadata and Health Alerts check boxes.
7. Navigate to **Export** and select **RAW** to stream raw JSON data to the connector. Select the same protocol that the connector was configured with.
8. Enter the IP address of the machine where the connector is installed and specify the port number over which the connector is configured to receive events.
9. Click **VERIFY** to validate the configuration and click **SAVE** on the action bar to save the export configuration.

Device Event Mapping to ArcSight Fields

The following table lists the mapping of ArcSight data fields to the device's specific event definitions. See *ArcSight 101* for more information about the ArcSight data fields.

OpenText Network Detection & Response (Bricata) Event Mappings to ArcSight Fields

ArcSight ESM Field	Device-Specific Field
Application Protocol	app_proto or app_proto_tc
Bytes In	bytes_toserver
Bytes Out	bytes_toclient
Destination Address	dest_ip
Destination Port	dest_port
Device Action	Action
Device Address	sensor_ipv4
Device Custom Number 3	linktype
Device Custom Number 3 Label	Linklayer protocol
Device Custom String 1	src_location_country or dest_location_country
Device Custom String 1 Label	Country
Device Event Category	category
Device Event Class ID	signature_id
Device Inbound Interface	interface
Device Payload ID	flow_id
Device Product	Alert
Device Receipt Time	Start
Device Severity	Severity or event_type
Device Vendor	Bricata
End Time	Last

ArcSight ESM Field	Device-Specific Field
External ID	flow_uuid
Message	signature
Name	signature
Old File ID	event_uuid
Source Address	src_ip
Source Host Name	sensor_hostname
Source Nt Domain	sensor_fqdn
Source Port	src_port
Start Time	Start
Transport Protocol	Proto

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