
Micro Focus Security

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SmartConnector for ArcSight Common Event Format Syslog

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SmartConnector for ArcSight CEF Syslog

This guide provides information to install and configure the SmartConnector for ArcSight Common Event Format (CEF) Syslog for event collection.

Product Overview

Each security infrastructure component tends to have its own event format, making it difficult to derive and understand the impact of certain events or combinations of events. ArcSight's Common Event Format (CEF) defines a very simple event format that can be adopted by vendors of both security and non-security devices. This format contains the most relevant event information. The SmartConnector for ArcSight CEF Syslog translates the data from other formats into an ArcSight event.

Common Event Format Implementation

The Common Event Format (CEF) standard format, developed by ArcSight, lets vendors and their customers quickly integrate their product information into ESM. CEF is an open log management standard that simplifies log management, letting third parties create their own device schema that are compatible with a standard that is used industry-wide for normalizing security events. Technology companies and customers can use the standardized CEF format to facilitate data collection and aggregation, for later analysis by an enterprise management system.

For more information about CEF, see the *Implementing ArcSight Common Event Format (CEF)* Guide. It defines the CEF protocol and provides details about how to implement the standard. It details the header and predefined extensions used within the standard as well as how to create user defined extensions. It also includes a list of CEF mappings as well as supported date formats.

Configuration

Syslog Daemon SmartConnector

If you are using SmartConnector for Syslog Daemon, then add the following statement in the `rsyslog.conf` file to forward Oracle Audit events to Syslog Daemon:

```
<eventname> @@(remote/local-host-IP):514
```

Use `*.*` to read all Syslog events. For example, For example: `*.* @@(remote/local-host-IP):514`.

Replace regex with the specific event name, to filter specific events. For example, `local1.warning @@10.0.0.1:514`.

Use `@@` to send events over a TCP connection.

Use `@` to send events over an UDP connection.

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



Messages longer than 1024 bytes might be split into multiple messages on syslog daemon. There are no such restriction for syslog file or pipe.

Syslog Pipe and File SmartConnectors

When a syslog daemon is already in place and configured to receive syslog messages, you can add a line in the syslog configuration file (`rsyslog.conf`) 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.

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.

In this scenario, the ArcSight SmartConnector runs on the same machine as the syslog daemon. Therefore, you must do additional configurations for the ArcSight syslog file or syslog pipe SmartConnectors in the system where all Syslog Daemon SmartConnector configurations are done.

For Syslog Pipe:

Create a pipe, then modify the **/etc/rsyslog.conf** file to send events to it.

1. Create a pipe by executing the following command:
`mkfifo /var/tmp/syspipe`
2. Add one of the following lines to **/etc/rsyslog.conf** file, depending on your operating system:
 - *.debug /var/tmp/syspipe
 - *.debug | /var/tmp/syspipe
3. To restart the syslog daemon, do one of the following:
 - Execute the following scripts:
 - a. **/etc/init.d/syslogd stop**
 - b. **/etc/init.d/syslogd start,**
 - Execute the following command to send a configuration restart signal:
 - **RedHat Linux:** `service syslog restart`
 - **Solaris:** `kill -HUP `cat /var/run/syslog.pid``

This command forces the syslog daemon to reload the configuration and start writing to the pipe you just created.

For syslog file:

1. Create a file or use the default file into which log messages are to be written.
2. After editing the **/etc/rsyslog.conf** file.
3. To restart the syslog daemon, do one of the following:
 - Execute the following scripts:
 - a. **/etc/init.d/syslogd stop**
 - b. **/etc/init.d/syslogd start,**
 - Execute the following command to send a configuration restart signal:
 - **RedHat Linux:** `service syslog restart`
 - **Solaris:** `kill -HUP `cat /var/run/syslog.pid``



Important: Make a note of the absolute path to the syslog file or pipe you created as you would need to specify the details during the installation of the SmartConnector

Preparing to Install the SmartConnector

Before you install any SmartConnectors, make sure that the Micro Focus 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, be sure 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 <code>timestamp</code> 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.
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. 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 click **Next**. (If you select **Do not import the certificate to connector from destination**, the connector installation will end.) The certificate is imported and the **Add connector Summary** window is displayed.
8. Select whether you want to run 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 [SmartConnector Installation and User Guide](#).

Device Event Mapping to ArcSight Data Fields

For device mappings for a product, refer to the vendor CEF documentation.

Information from vendors is formatted according to the CEF standard and sent to the ArcSight SmartConnector, which translates the data into an ArcSight event.



In a key value parser strings do not require tokenization. They work by default.

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