



# ArcSight SmartConnector

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## Configuration Guide for CyberArk Privileged Access Security SmartConnector

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# Contents

- Configuration Guide for CyberArk Privileged Access Security SmartConnector ..... 4
- Product Overview ..... 5
- Configuration ..... 6
  - Configuring for the Syslog SmartConnectors ..... 6
- Installing the SmartConnector ..... 9
  - Preparing to Install the SmartConnector ..... 9
  - Installing and Configuring the SmartConnector .....10
- Device Event Mapping to ArcSight Fields .....13
  - CyberArk Privileged Access Security Event Mappings to ArcSight Fields .....13
- Send Documentation Feedback ..... 14

# Configuration Guide for CyberArk Privileged Access Security SmartConnector

This guide provides information for installing the SmartConnector for CyberArk Privileged Access Security 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](#).

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# Product Overview

SmartConnector for CyberArk Privileged Access Security aims to receive the CEF formatted logs and parse them to the desired destination. The key agent in this facility is **syslog connector**. It receives messages and routes them to their destination based on configuration information provided in the `/etc/syslog.conf` file.

CyberArk's Privileged Access Security (PAS) provides a comprehensive solution for managing the most privileged accounts and SSH Keys in an enterprise. It is applicable to both on-premises and cloud environments.

It helps organizations secure, provision, manage, control, and monitor all activities associated with all types of privileged identities, such as:

- Administrator on a Windows server
- Root on a UNIX server
- Cisco Enable on a Cisco device
- Embedded passwords found in applications and scripts

For more information about the solution, see the [CyberArk's Privileged Access Security \(PAS\) solution documentation](#).

# Configuration



**Note:** The CyberArk logs have a missing pipe symbol ('|') in the header section, after the **name** field. This might cause mapping discrepancies across all the fields in some cases or issues in the **event.name** field in other cases. To address this issue, request modifications to the log format as described in the [ArcSight Common Event Format \(CEF\) Implementation Standard](#) document, from CyberArk, to ensure that the header section contains the pipe symbol ('|') after the name field. For more information, see the [Known Issues](#) section in Release Notes for ArcSight SmartConnector.

## Configuring for the Syslog SmartConnectors

### 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 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 <b>None</b> , <b>Rename</b> , or <b>Delete</b> 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 <b>None</b> .

- 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"><li>• <b>Solaris:</b> <code>\var\adm\messages</code></li><li>• <b>Linux:</b> <code>\var\log\messages</code></li></ul> <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"><li>• <b>Date format log rotation:</b> 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></li><li>• <b>Index log rotation:</b> 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>;</li></ul> <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 <b>None</b> , <b>Rename</b> , or <b>Delete</b> 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 <b>None</b> .
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 <b>Rename</b> . The default value is <b>Processed</b> , 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 table lists the mapping of ArcSight data fields to the device's specific event definitions:

### CyberArk Privileged Access Security Event Mappings to ArcSight Fields

ArcSight ESM Field	Device-Specific Field
Destination User Name	duser
Device Action	act
Device Address	dvc
Device Custom String 1	Affected User Name
Device Custom String 1 Label	Affected User Name
Device Custom String 2	Safe Name
Device Custom String 2 Label	Safe Name
Device Custom String 3	Device Type
Device Custom String 3 Label	Device Type
Device Custom String 4	Database
Device Custom String 4 Label	Database
Device Custom String 5	Other info
Device Custom String 5 Label	Other info
Device Product	Vault
Device Vendor	Cyber-Ark
Device Version	Device Version
Name	Name

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