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# Micro Focus Security ArcSight SmartConnectors

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## Configuration Guide for Arbor Networks Peakflow Syslog SmartConnector

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### Document Changes

Date	Product Version	Description
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# Configuration Guide for Arbor Networks Peakflow Syslog SmartConnector

This guide provides information to install the SmartConnector for Arbor Networks Peakflow Syslog and configure the device for syslog event collection.

## Intended Audience

This guide provides information for IT administrators who are responsible for managing the ArcSight SmartConnectors.

## Additional Documentation

The ArcSight SmartConnectors documentation library includes the following resources:

- *Installation Guide for ArcSight 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.
- *Release Notes for ArcSight SmartConnectors*, which provides information about the latest release

For the most recent version of this guide and other ArcSight SmartConnector documentation resources, visit the [documentation site for ArcSight SmartConnectors](#).

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## Product Overview

Arbor Networks' Peakflow is a security product that detects, traces, and blocks denial-of-services attacks. The SmartConnector for Arbor Networks Peakflow obtains Peakflow events through a syslog server and integrates them into ArcSight's security management solution.

# Configuring Arbor Peakflow

You can configure Arbor Peakflow either by using the web interface or using the command line interface. For more information, see the *Arbor Peakflow SP User Guide*.

## Configuring By Using the Web Interface

To configure the Peakflow device you must create a notification group that the Peakflow SP must use while sending alert notifications.

1. Got to **Administration > Notification > Groups**.
2. Click **Add Notification Group** to add a group or select an existing group.
3. Specify values for **Destination**, **Port**, **Facility**, and **Severity** fields, or retain the default values.
4. Click **Save** and **Apply**.
5. Click **Configuration Commit** to commit the configuration changes.



**Note:** Configuration changes made to the Peakflow system do not generally take effect until they are committed into the system configuration. You can also commit configuration changes by selecting the **Administration > Configuration Management > Commit** menu.

# Configuring by Using the Command Line Interface

To configure by using the command line interface:

```
/services/sp/notification/groups/add <NEW GROUP NAME>  
    /services/sp/notification/groups/edit/<GROUP NAME>log [destination |  
facility | port | severity] set config write
```



# Configuring Syslog

## 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.

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.

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**, 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 <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**, 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"> <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>;  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.</li> </ul>
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. 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 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.

ArcSight ESM Field	Device-Specific Field
Agent (Connector) Severity	High 5; Medium 2,3; Low 1
Device Address	Device Address
Device Custom Date 2	End time
Device Custom Number 1	ID
Device Custom String 1	Status Type
Device Custom String 3	Rate
Device Custom String 4	Rate Unit
Device Event Category	MessageType
Device Event Class ID	Device event class ID
Device Process Name	Tag
Device Product	Peakflow
Device Vendor	Arbor
Message	Message
Name	Name

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