



# ArcSight SmartConnectors

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## Configuration Guide for Brocade BigIron Syslog SmartConnector

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# Contents

- Configuration Guide for Brocade BigIron Syslog SmartConnector ..... 4
- Product Overview ..... 5
- Configuration ..... 6
  - Configuring Syslog Buffer Parameters using the Web Interface ..... 6
  - Configuring for the Syslog SmartConnectors ..... 8
- Installing the SmartConnector ..... 11
  - Preparing to Install the SmartConnector ..... 11
  - Installing and Configuring the SmartConnector ..... 11
- Device Event Mapping to ArcSight Fields ..... 15
  - BigIron IronWare Field Mappings ..... 15
- Send Documentation Feedback ..... 17

# Configuration Guide for Brocade BigIron Syslog SmartConnector

This guide provides information for installing the SmartConnector for Brocade BigIron Syslog and configuring the device for syslog 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

We want to hear your comments and suggestions about this book and the other documentation included with this product. You can use the comment on this topic link at the bottom of each page of the online documentation, or send an email to [MFI-Documentation-Feedback@opentext.com](mailto:MFI-Documentation-Feedback@opentext.com).

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# Product Overview

The BigIron family of Layer 3 Backbone Switches for the campus, MAN, and LAN environments delivers up to 3.84 Terabits per second of backplane switching capacity, reducing performance bottlenecks with wire-speed IP routing. The BigIron RX Series scales to support 192 separate 10 Gigabit Ethernet ports in a single 7 foot rack.

# Configuration

A Brocade device software can write syslog messages with the following severity levels:

- Emergencies
- Alerts
- Critical
- Errors
- Warnings
- Notifications
- Informational
- Debugging

You must specify a syslog server and change the level of messages the system logs.

## Configuring Syslog Buffer Parameters using the Web Interface

To configure syslog parameters using the Web management interface:

1. Log on to the device using a valid user name and password for read-write access.
2. Select **Management** from the **System** configuration panel.
3. Select the **System Log** link to display the following panel:

**System Log**

<b>Logging:</b>	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
<b>Buffer Size:</b>	<input type="text" value="50"/>
<b>Facility:</b>	<input type="text" value="user"/>
<b>Accept Severity:</b>	<input checked="" type="checkbox"/> alert <input checked="" type="checkbox"/> critical <input checked="" type="checkbox"/> debugging <input checked="" type="checkbox"/> emergency <input checked="" type="checkbox"/> error <input checked="" type="checkbox"/> informational <input checked="" type="checkbox"/> notification <input checked="" type="checkbox"/> warning

[\[Show Log Server\]](#)

[\[Home\]](#) [\[Site Map\]](#) [\[Logout\]](#) [\[Save\]](#) [\[Frame Enable\]](#) [\[Disable\]](#) [\[TELNET\]](#)

4. Select **Disable** or **Enable** next to **Logging** to disable or enable the syslog service on the device. The service is enabled by default.
5. Optionally, change the number of entries the local syslog buffer can hold. The buffer can be from 1 to 100. The default is 50.



A change in the buffer size takes effect only after you restart the system. The buffer size does not affect how many entries the device can log on a syslog server. The number of entries the device can log on the server depends upon the server's configuration.

6. Select the messages facility. The default is **User**. For a list of values, display the pull-down menu.
7. Select the message levels you want the device to log. All the levels are logged by default.
8. Click **Apply** to save the changes to the device's running configuration file.
9. To add a syslog server, click on the **Add Log Server** link under the dialog to display the System Log Server panel.
10. Enter the IP address of the new syslog server if you want the device to log messages to the syslog server as well as to the local buffer.
11. Enter the UDP port on the server that will be used for logging messages.
12. Click **Add** to add the server to the list of servers. You can add up to six syslog servers.
13. Select the **Save** link at the bottom of the dialog. Select **Yes** when prompted to save the configuration change to the startup-config file on the device's flash memory.

## 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** 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>; 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>

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 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.

## BigIron IronWare Field Mappings

ArcSight ESM Field	Device-Specific Field
Application Protocol	HTTP or Telnet or FTP
ArcSight Severity (High)	A or M
ArcSight Severity (Low)	D, I, or N
ArcSight Severity (Medium)	W or E
ArcSight Severity (Very High)	C
Base Event Count	Event count
Destination Address	Destination IP
Destination User Name	Destination user
Destination User Privileges	Destination user privileges
Device Action	Action taken by device
Device Custom Number 1	VLAN_ID
Device Custom Number 2	Ethernet_Port
Device Custom String 1	ACL_List
Device Custom String 2	AdditionalProtocolInfo

ArcSight ESM Field	Device-Specific Field
Device Custom String 3	STP State
Device Custom String 5	datetime
Device Event Category	Type
Device Event Class Id	Message Id
Device Inbound Interface	Source Interface
Device Product	'BigIron'
Device Severity	SeverityChar (C = very high, A and M = high, W and E = medium, D, I, and N = Low)
Device Vendor	'Foundry'
Name	name
Source Address	Source IP Address
Source Mac Address	Source Mac Address
Transport Protocol	TCP / UDP / ICMP / IGMP / ARP



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