Juniper Advanced Threat Prevention Appliance

CEF, LEEF & Syslog Support for SIEM User's Guide

Release 5.0
March 2018

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The information in this document is current as of the date on the title page.

YEAR 2000 NOTICE

Juniper Networks hardware and software products are Year 2000 compliant. Junos OS has no known time-related limitations through the year 2038. However, the NTP application is known to have some difficulty in the year 2036.

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- Find CSC offerings: http://www.juniper.net/customers/support/.
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- Call 1-888-314-JTAC (1-888-314-5822 toll-free in the USA, Canada, and Mexico).
- For international or direct-dial options in countries without toll-free numbers, see http://www.juniper.net/support/requesting-support.html

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Inside This Guide

SIEM Syslog, LEEF and CEF Logging

The Juniper ATP Appliance platform collects, inspects and analyzes advanced and stealthy web, file, and email-based threats that exploit and infiltrate client browsers, operating systems, emails and applications. Juniper ATP Appliance's detection of malicious attacks generates incident and event details that can be sent to connected SIEM platforms in CEF, LEEF or Syslog formats. This guide provides information about incident and event collection using these formats.

Juniper ATP Appliance generates LEEF or CEF logs for Download (DL) and Infection (IN) incidents, including phishing (PHS, DL + PHS), for the following event types.

- http | email | cnc | submission | exploit | data theft

> **NOTE** DL (Download)-based CEF Logs contain the hash and file type of the downloaded malware file. IN (Infection)-based CEF Logs do not provide a hash and file type.

Identity information is also sent as part of SIEM. Refer to Active Directory integration information, external collector options, and other Advanced Threat Analytics and Anti-SIEM filtering options available from the Operator's Guide.

> **NOTE** This guide focuses on CEF, LEEF and Syslog outputs for SIEM mapping and integration. Juniper ATP Appliance also provides JSON-based HTTP API results and ASCII TEXT notifications that are not discussed in this guide; refer to the Juniper ATP Appliance HTTP API Guide for more information.

In addition, Juniper ATP Appliance extended Syslog functionality in a previous release and added more details to Syslog messaging. Syslog alerts are sent for the following Incident and event types:

- Downloads
- Infections
- Exploits
- Email Downloads
- Phishing

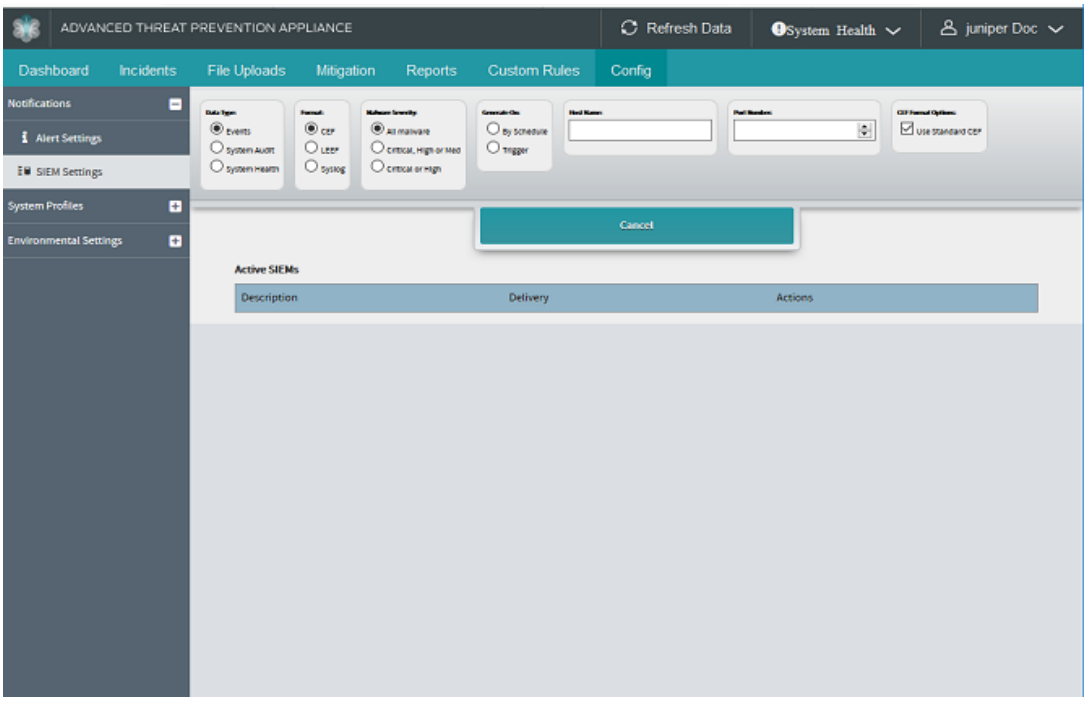
- File Uploads (malware analysis)
- Data Theft
- Endpoint Identity information

Juniper ATP Appliance has added extra fields to the Syslog output such as externalId (Incident ID), eventID (Event ID), and so on. All extra fields are included in this document.

The Juniper ATP Appliance Central Manager WebUI Config> Notifications> SIEM Settings provides the option to configure event and system audit notifications for CEF-format, LEEF-format, or SYSLOG SIEM servers. The servers, in turn, must be configured to receive the Juniper ATP Appliance notifications in CEF, LEEF and Syslog formats (provide hostname and port number for Syslog).

Configure SIEM Settings in order to have Events or System Audit notifications sent to designated hosts aslogs in either CEF, LEEF or Syslog format.

Figure 1 Setting SIEM Notification



Note that if selecting Syslog as the SIEM setting when configuring System Health alerts, you can choose to include the Hostname or Process name in the Syslog messages that are sent from the Juniper ATP Appliance: Show Hostname and Show Process Name:

To create a new SIEM notification:

1. Navigate to the Config>Notifications page and select SIEM Settings from the left panel menu.
2. Click Add New SIEM Connector to set up a new Events, System Audit or System Health log notification in CEF, LEEF or Syslog format.
3. Select from the available options and click Add to complete the configuration and add the new SIEM connector configuration to the Active SIEMS list.

Using CEF Alert event_id or incident_id to Display Details in Web UI

Given an incident_id or event_id, you can use the following URLs to display relative details in the Juniper ATP Appliance Web UI.

Replace “JATP_HOSTNAME_HERE” with your Juniper ATP Appliance host name, and replace “0000000” with the

event_id or incident_id.

- https://JATP_HOSTNAME_HERE/admin/index.html?incident_id=0000000
- https://JATP_HOSTNAME_HERE/admin/index.html?event_id=0000000

NOTE The system will prompt for login/password if no login session is currently active.

To display, delete or edit an Active SIEM connector configuration:

1. To display a recent report, or delete or edit an existing SIEM configuration, click Display, Delete or Edit, respectively, in the Active SIEM table for a selected configuration row.
2. Edit, modify or delete the current settings and fields as desired, then click Save.

Alert notification configuration options

Alert notifications for SIEM events or system audits are available only if Outgoing Mail Settings are configured from the Config>System Settings menu.

Descriptions of Events alert settings are provided in the following tables.

Table 3-1 Events SIEM Settings

Type	Select the type of SIEM connector notification to be configured: Event
Format	Select CEF or Syslog as the notification output format.
Malware Severity	To filter the log notification by malware severity results, choose either: All Malware | Critical, High or Med | Critical or High
Generate On	Select Trigger or By Schedule to set the method by which a SIEM Events log is generated. If "By Schedule" is selected, then select a Day, then enter a Time in the format 00:00 am or pm to set the day(s) and time at which the alert is to be generated.
Host Name	Enter the host name of the CEF or Syslog server.
Port Number	Enter the port number of the CEF or Syslog server.

Table 3-2 System Audit SIEM Settings

Type	Select the type of SIEM notification to be configured: System Audit
Format	Select CEF or Syslog as the notification output format.
Event Type	Select the event type(s) to include in the alert notification: Login/Logout | Failed logins | Add/Update Users | System Settings | Restarts
Format	Select CEF or Syslog as the log output format.

Table 3-2 System Audit SIEM Settings

Type	Select the type of SIEM notification to be configured: System Audit
Format	Select CEF or Syslog as the notification output format.
Generate On	Select Trigger or By Schedule to set the method by which a SIEM System Audit log is generated. If “By Schedule” is selected, then select a Day, then enter a Time in the format 00:00 am or pm to set the day(s) and time at which the alert is to be generated.

Table 3-3 System Health SIEM Settings

Type	Select the type of SIEM connector log to be configured: System Health
Health	Select the health report type(s) to include in the SIEM log: Overall Health | Processing Delay
Format	Select CEF or Syslog as the log output format. Note that if selecting Syslog as the SIEM setting when configuring System Health alerts, you can choose to show or hide the Hostname or Process name in the Syslog messages that are sent from the Juniper ATP Appliance: show Hostname and Show Process Name.
Generate On	Select Trigger or By Schedule to set the method by which a SIEM System Audit log is generated. If “By Schedule” is selected, then select a Day, then enter a Time in the format 00:00 am or pm to set the day(s) and time at which the alert is to be generated.

Syslog Trap Sink Server

When configuring a Juniper ATP Appliance to generate alert notifications in CEF or Syslog format, an administrator must confirm that the rsyslog trap-sink SIEM server supports CEF. The CEF output is accessible for parsing only on the rsyslog server and cannot be viewed from the Juniper ATP Appliance CLI or Web UI.

CEF, LEEF and Syslog Format

Common Event Format (CEF)and Log Event Extended Format (LEEF) are open standard syslog formats for log management and interoperabily of security related information from different devices, network appliances and applications. This open log format is adopted by Juniper ATP Appliance for sending Juniper ATP Appliance malware event , system audit and system health notifications to the configured channel.

LEEF FORMAT

As LEEF events are received, QRadar performs traffic analysis and inspects event traffic to identify the sending device or appliance traffic. When traffic analysis identifies an event source, the first 25 events are categorized as SIM Generic Log DSM events with the event name set as Unknown Log Event. After the event traffic is identified, QRadar creates a log source to categorize and label events that have been forwarded from the sending appliance or software. Events sent from the sending device are viewable in QRadar on the Log Activity tab.

Refer to the QRadar Log Event Extended Format (LEEF) Guide at https://www.ibm.com/.../QRadar_LEEF_Format_Guide.pdf for more information.

NOTE For information about installing the Juniper ATP Appliance DSM plugin, refer to Installing the QRadar Juniper ATP Appliance DSM for LEEF Alerts on page 26.

CEF FORMAT

The standard CEF format is:

```
CEF:Version|Device Vendor|Device Product|Device Version|Signature
ID|Name|Severity|Extension
```

The Juniper ATP Appliance CEF format is as follows:

```
CEF:0|JATP|Cortex|<JATP version 5.0>|<event type:
http,email,datatheft...>|<malware name>|<incident risk mapping to 0-
10>|externalId=<JATP Incident ID> eventId=<JATP event ID>
<ExtensionField=value...>...
```

The CEF format contains the most relevant malware event, system audit or system health information, making it available for event consumers to parse and to use the data interoperably. To integrate events, the syslog message format is used as a transport mechanism. This mechanism is structured to include a common prefix applied to each message, and contains the date and hostname as shown below:

<timestamp in UTC> host <message>
where message=<header>|<extension>

Here is the common prefix as shown in Splunk:

<Timestamp in UTC> <server-fully-qualified domain name of the Juniper ATP box> <CEF format>

Here is the priority header format for Syslog:

<Syslog Priority> Timestamp Hostname Processname: SyslogContent

Syslog Priority is 134.
Syslog Facility is User-level and Syslog Severity is Notice. Hostname and Processname are configured from the SIEM Settings configuration page by checking the Show Hostname and Show Process Name options (see figure above).

Definitions for the primary CEF fields as well as the CEF Extension Field Key=Value Pair Definitions are provided in the following sections.

CEF Field Definitions

Table 1 Field Definitions

CEF FIELD	Definition
Version	An integer that identifies the version of the CEF format. This information is used to determine what the following fields represent. Example: 0
Device Vendor Device Product Device Version	Strings that uniquely identify the type of sending device. No two products Dec use the same device-vendor and device-product pair, although there is no central authority that manages these pairs. Be sure to assign unique name pairs. Example: JATP|Cortex|3.6.0.12
Signature ID/ Event Class ID	A unique identifier in CEF format that identifies the event-type. This can be a string or an integer. The Event Class ID identifies the type of event reported. Example (one of these types): http |email| cnc| submission| exploit| datatheft
Malware Name	A string indicating the malware name. Example: TROJAN_FAREIT.DC
Severity/Incident Risk Mapping	An integer that reflects the severity of the event. For the Juniper ATP Appliance CEF, the severity value is an incident risk mapping range from 0-10 Example: 9.
External ID	The Juniper ATP Appliance incident number. Example: externalId=1003
Event ID	The Juniper ATP Appliance Event ID number. Example: eventId=13405
Extension	A collection of key-value pairs; the keys are part of a predefined set. An event can contain any number of key- value pairs in any order, separated by spaces. NOTE Note: Review the definitions for these extension field labels provided in the section: CEF Extension Field Key=Value Pair Definitions on page 12.

TIP Timestamp format for Syslog is M D H:i:s

Juniper ATP Appliance CEF Notification Example

The following CEF example is defined per field and label:

```
2016-01-23 17:36:39.841+00 tap0.test.JATP.net
CEF:0|JATP|Cortex|3.6.0.15|cnc|TROJAN_Zemot.CY|7|externalId=995
eventId=123 lastActivityTime=2016-01-23 17:36:39.841+00
src=50.154.149.189 dst=192.168.1.10 malwareSeverity=0.5
malwareCategory=Trojan_DataTheft cncServers=50.154.149.189

Nov 23 17:36:39 10-3          : Timestamp in UTC 2016-01-23 17:36:39.841+00
tap00.test.JATP.net         : Server-fully-qualified domain name of
                                 the JATP box
```

```
CEF:0                          : CEF version is 0
JATP                         : Device vendor is Juniper
Cortex                         : Device product is Cortex
5.0                          : Device version (Version number as shown
                                 in the GUI)
cnc                            : Type of event
TROJAN_Zemot.CY                : Name of the malware
7                              : Severity (range between 0-10)
995                            : External ID

123                            : Event ID
2016-01-23 17:36:39.841+00     : Last Activity Time stamp
50.154.149.189               : Source IP Address
192.168.1.10                 : Destination IP Address
0.5                          : Malware Severity Rating
Trojan_DataTheft             : Malware Category
31.170.165.131                 : CnC server IP Address
```

Sample CEF and Syslog Notifications

Sample CEF and Syslog notification examples are shown for various event types in this section.

The definitions for each of the <extension> field keys per event type are provided in the section CEF Extension Field Key=Value Pair Definitions on page 12

NOTE Be aware that if a value is null, the label will still display in the notification; for example, dst= and filename remain blank in thisi9joool CEF message:

```
eventId=13423 lastActivityTime=2016-7-26 21:50:50+00 dst=
fileHash=c01e057e6b7115057d9465311346f198a7fed574 fileName= fileType=PE32 executable
```

CEF Phishing Event Examples:

Phishing events are included in CEF/Syslog. Here are few examples:

Example 1: Email with Both Malicious URL and Attachment

```
Dec  6 16:52:22 IP Dec 06 16:51:38 hostname
CEF:0|JATP|Cortex|3.6.0.1444|email|Phishing|8|externalId=1504
eventId=14067 lastActivityTime=2016-12-06 23:51:38+00 src= dst=
src_hostname= dst_hostname= src_username= dst_username=
src_email_id=src@abc.com dst_email_id={test@abc.com} startTime=2016-12-
06 23:51:38+00 url=http://greatfilesarey.asia/QA/files_to_pcaps/
74280968a4917da52b5555351eeda969.bin
fileHash=bce00351cfc559afec5beb90ea387b03788e4af5 fileType=PE32
executable (GUI) Intel 80386, for MS Windows
```

Example 2: Email Sent to Multiple Recipients with Malicious Attachment

```
Dec  9 19:47:19 IP Dec 09 19:49:36 hostname
CEF:0|JATP|Cortex|3.6.0.1444|email|TROJAN_GIPPERS.DC|8|externalId=1505
eventId=14068 lastActivityTime=2016-05-10 02:49:36+00 src= dst=
src_hostname= dst_hostname= src_username= dst_username=
src_email_id=src@abc.com
dst_email_id={test1@abc.com,test2@abc.com,test3@abc.com}
fileHash=bce00351cfc559afec5beb90ea387b03788e4af5 fileType=PE32
executable (GUI) Intel 80386, for MS Windows startTime=2016-05-10
02:49:36.000000+00
```

Example 3: Email Sent to Multiple Recipients with Multiple Bad URLs (Separated by Space) and Attachment

```
Dec 3 16:42:24 IP Dec 03 16:42:54 hostname
CEF:0|JATP|Cortex|3.6.0.1444|email|Phishing|8|externalId=1499
eventId=14058 lastActivityTime=2016-05-03 23:42:54+00 src= dst=
src_hostname= dst_hostname= src_username= dst_username=
src_email_id=src@abc.com
dst_email_id={test1@abc.com,test2@abc.com,test3@abc.com} startTime=2016-
05-03 23:42:54+00 url=http://greatfilesarey.asia/QA/files_to_pcaps/
74280968a4917da52b5555351eeda969.bin http://greatfilesarey.asia/QA/
files_to_pcaps/1813791bcecf3a3af699337723a30882.bin
fileHash=bce00351cfc559afec5beb90ea387b03788e4af5 fileType=PE32
executable (GUI) Intel 80386, for MS Windows
```

Example 4: Infection Event for which Identity Information is Obtained from Active Directory

```
Dec 2 17:17:25 IP Dec 02 17:08:08 hostname
CEF:0|JATP|Cortex|3.6.0.1444|cnc|TROJAN_DUSVEXT.CY|10|externalId=1489
eventId=14046 lastActivityTime=2016-05-03 00:08:08.349+00
src=31.170.165.131 dst=172.20.1.201 src_hostname=
dst_hostname=emailuser-host src_username= dst_username=emailuser
malwareSeverity=0.75 malwareCategory=Trojan_Generic
cncServers=31.170.165.131
```

CEF System Health Notification Example:

```
2016-01-23 17:36:39.841+00 tap0.test.JATP.net
CEF:0|JATP|Cortex|3.6.0.3|3|services-health|5|desc=Behavior Engine is
not running json={"status": "0", "service": "Behavior Engine"}
source = udp:514 sourcetype = syslog

2016-01-23 17:36:39.841+00 tap0.test.JATP.net
CEF:0|JATP|Cortex|3.6.0.3|3|appliance-connect-health|5|desc=Lost
connection to web_collector upgrade (10.2.11.107) for 10 minutes
json={"ip": "10.2.11.107", "age": 10.3804142, "type": "web_collector",
"appliance": "upgrade", "pretty_age": "10 minutes"}
```

Syslog System Health Notification Example:

```
<134>Nov 24 17:22:56 tap54.eng.JATP.net JATP:
CEF:0|JATP|Cortex|3.6.0.15|3|traffic-health|5|desc=10.2.20.54
(10.2.20.54) received 0 KB of monitor traffic over last 10 minutes
json={"pretty_age": "10 minutes", "ip": "10.2.20.54", "age": 10,
"appliance": "10.2.20.54", "sample_size": 2, "traffic": "0"}
```

NOTE NOTE: The priority value in syslog headers from pcaps is "134". The Juniper ATP Appliance mirrors the output of CEF for the fields supported by Syslog to generate Syslog output

CEF Download (DL) Malware Event Notification Examples

```
2016-7-11 17:36:39.841+00 tap0.test.JATP.net
CEF:0|JATP|Cortex|3.6.0.12|http|TROJAN_Zemot.CY|5|eventId=123
src=50.154.149.189 dst=192.168.1.10 startTime=2016-6-30
01:05:16.001+00fileHash=1d81e21db086a2c385696f17f17bdde6d4be04d4
fileName=ccaed7c3c6e58a2844c9896246997f62.bin fileType=PE32 executable
(GUI) Intel 80386, for MS Windows startTime=2016-08-11 17:36:39.841+00
```

Syslog Download (DL) Malware Event Notification Examples

```
<134>Nov 23 21:58:05 tap54.eng.JATP.net JATP:
CEF:0|JATP|Cortex|3.6.0.15|http|TROJAN_GIPPERS.DC|8|externalId=374
eventId=13348 lastActivityTime=2016-02-24 05:58:05.151123+00
src=172.16.0.1 dst=10.1.1.26
fileHash=acf69d292d2928c5ddfe5e6af562cd482e6812dc
fileName=79ea1163c0844a2d2b6884a31fc32cc4.bin fileType=PE32 executable
(GUI) Intel 80386, for MS Windows startTime=2016-02-24
05:58:05.151123+00
```

CEF HTTP Malware Event Notification Example

```
Dec 31 16:43:47 10-3 2016-12-26 18:06:52.333023+00 tap0.test.JATP.net
CEF:0|JATP|Cortex|3.6.0.12|http|TROJAN_FAREIT.DC|10|13405
lastActivityTime=2016-12-26 18:06:52.333023+00 src=172.16.0.1
dst=10.1.1.44 fileHash=6ff61bec9baa970df54c69fbef1209004a01f068
fileName=e309ea0c7271f3845d86621717220479.bin fileType=PE32 executable
(GUI) Intel 80386, for MS Windows startTime=2016-12-26
18:06:52.333023+00
```

Syslog Malware Event Infection Notification Example

```
<134>Nov 23 21:58:05 tap54.eng.JATP.net JATP:
CEF:0|JATP|Cortex|3.6.0.15|cnc|TROJAN_Vertexbot.CY|5|externalId=353
eventId=13321 lastActivityTime=2016-02-24 02:17:25.638+00
src=31.170.165.131 dst=10.1.1.48 malwareSeverity=0.5
malwareCategory=Unknown cncServers=31.170.165.131
```

CEF Email Malware Event Notification Example

```
2016-01-23 17:36:39.841+00 tap0.test.JATP.net
CEF:0|JATP|Cortex|3.6.0.15|email|TROJAN_Zemot.CY|7|externalId=995
eventId=123 lastActivityTime=2016-01-23 17:36:39.841+00
src=50.154.149.189 dst=192.168.1.10
fileHash=d93216633bf6f86bc3076530b6e9ca6443fc75b5 fileName=abc.bin
```

```
fileType=Zip archive data, at least v2.0 to extract startTime=2016-01-23
17:36:39.841+00
```

Syslog Email Malware Event Notification Example

```
<134> Nov 23 18:50:00 tap0.test.JATP.net JATP:
CEF:0|JATP|Cortex|3.6.0.15|email|TROJAN_Zemot.CY|7|externalId=995
eventId=123 lastActivityTime=2016-01-23 17:36:39.841+00
src=50.154.149.189 dst=192.168.1.10
fileHash=d93216633bf6f86bc3076530b6e9ca6443fc75b5 fileName=abc.bin
fileType=Zip archive data, at least v2.0 to extract startTime=2016-01-23
17:36:39.841+00
```

CEF CnC Notification Example

```
2016-01-23 17:36:39.841+00 tap0.test.JATP.net
CEF:0|JATP|Cortex|3.6.0.15|cnc|TROJAN_Zemot.CY|7|externalId=995
eventId=123 lastActivityTime=2016-01-23 17:36:39.841+00
src=50.154.149.189 dst=192.168.1.10 malwareSeverity=0.5
malwareCategory=Trojan_DataTheft cncServers=50.154.149.189
```

Syslog CnC Notification Example

```
<134> Nov 23 18:50:00 tap0.test.JATP.net JATP:
CEF:0|JATP|Cortex|3.6.0.15|cnc|TROJAN_Zemot.CY|7|externalId=995
eventId=123 lastActivityTime=2016-01-23 17:36:39.841+00
src=50.154.149.189 dst=192.168.1.10 malwareSeverity=0.5
malwareCategory=Trojan_DataTheft cncServers=50.154.149.189
```

CEF File Submission Notification Example

```
2016-01-23 17:36:39.841+00 tap0.test.JATP.net
CEF:0|JATP|Cortex|3.6.0.15|submission|TROJAN_Zemot.CY|7|externalId=995
eventId=123 lastActivityTime=2016-01-23 17:36:39.841+00
src=50.154.149.189 dst=192.168.1.10
fileHash=d93216633bf6f86bc3076530b6e9ca6443fc75b5 fileName=abc.bin
fileType=Zip archive data, at least v2.0 to extract submissionTime=2016-
01-23 17:36:39.841+00
```

Syslog File Upload Notification Example

```
<134>Nov 23 21:58:05 tap54.eng.JATP.net JATP:
CEF:0|JATP|Cortex|3.6.0.15|submission|VIRUS_NABUCUR.DC|5|externalId=354
eventId=13322 lastActivityTime=2016-02-24 02:25:05.163039+00 src= dst=
fileHash=12b1777e451ef24bcc940bc79cdd7a0ffb181d78 fileName=
fileType=PE32 executable (GUI) Intel 80386, for MS Windows
submissionTime=2016-02-24 02:25:05.163039+00
```

CEF Exploit Notification Example

```
2016-01-23 17:36:39.841+00 tap0.test.JATP.net
CEF:0|JATP|Cortex|3.6.0.15|exploit|Exploit|7|externalId=995 eventId=123
lastActivityTime=2016-01-23 17:36:39.841+00 src=50.154.149.189
dst=192.168.1.10 reqReferer=http://forums.govteen.com/content.php
url=http://64.202.116.151/nzrems2/1
```

Syslog Exploit Notification Example

```
<134>Nov 23 21:58:05 tap54.eng.JATP.net JATP:
CEF:0|JATP|Cortex|3.6.0.15|exploit|Exploit|3|externalId=352
eventId=13319 lastActivityTime=2016-02-24 02:18:21.105811+00
src=64.202.116.124 dst=192.168.50.203 reqReferer=http://
www.christianforums.com/ url=http://64.202.116.124/5butqfk/?2
```

CEF Data Theft Notification Example

```
2016-01-23 17:36:39.841+00 tap0.test.JATP.net
CEF:0|JATP|Cortex|3.6.0.15|datatheft|2ND_ORDER_DLP_CUSTOMIZED :
CreditCard_Rule|7|externalId=995 eventId=123 lastActivityTime=2016-01-23
17:36:39.841+00 src=50.154.149.189 dst=192.168.1.10
description=2ND_ORDER_DLP_CUSTOMIZED : CreditCard_Rule port=80
protocol=HTTP startTime=2016-01-23 17:36:39.841+00
```

Syslog Data Theft Notification Example

```
<134> Nov 23 18:50:00 tap0.test.JATP.net JATP:
CEF:0|JATP|Cortex|3.6.0.15|datatheft|2ND_ORDER_DLP_CUSTOMIZED :
CreditCard_Rule|7|externalId=995 eventId=123 lastActivityTime=2016-01-23
17:36:39.841+00 src=50.154.149.189 dst=192.168.1.10
description=2ND_ORDER_DLP_CUSTOMIZED : CreditCard_Rule port=80
protocol=HTTP startTime=2016-01-23 17:36:39.841+00
```

CEF System Health Notification Example:

```
2016-01-23 17:36:39.841+00 tap0.test.JATP.net
CEF:0|JATP|Cortex|3.6.0.15|3|traffic-health|5|desc=10.2.20.54
(10.2.20.54) received 0 KB of monitor traffic over last 10 minutes
json={"pretty_age": "10 minutes", "ip": "10.2.20.54", "age": 10,
"appliance": "10.2.20.54", "sample_size": 2, "traffic": "0"}
```

Syslog System Health Notification Example:

```
<134>Nov 24 17:12:55 tap0.eng.JATP.net JATP:
CEF:0|JATP|Cortex|3.6.0.15|3|link-health|5|desc=Link eth1 on 10.2.20.54
(10.2.20.54) is down json={"interface": "eth1", "ip": "10.2.20.54",
"appliance": "10.2.20.54", "app_id": "467dea60-d7da-11dd-83c7-
10bf48d79a6e", "up": false}
```

CEF System Audit Notification Examples:

```
2016-01-23 17:36:39.841+00 tap0.test.JATP.net
CEF:0|JATP|Cortex|3.6.0.15|2|update-system-config|5|desc=description
json={ "user_id" : "8d7c450e-df6a-0ab6-193d-143bfc6f7cac", "user_name" :
"test.JATP", "is_admin" : 0, "has_debug": 1 , "reset_password" : 1}

2016-01-23 17:36:39.841+00 tap0.test.JATP.net
CEF:0|JATP|Cortex|3.6.0.15|2|update-smtp|5|desc=description json={
"user_id" : "8d7c450e-df6a-0ab6-193d-143bfc6f7cac", "user_name" :
"test.JATP", "is_admin" : 0, "has_debug": 1 , "reset_password" : 1}

2016-01-23 17:36:39.841+00 tap0.test.JATP.net
CEF:0|JATP|Cortex|3.6.0.15|2|reboot|5|desc=description json={ "user_id"
```

```
: "8d7c450e-df6a-0ab6-193d-143bfc6f7cac", "user_name" : "test.JATP",
"is_admin" : 0, "has_debug": 1 , "reset_password" : 1}
```

Syslog System Audit Notification Examples:

```
<134>Nov 24 14:32:59 tap0.eng.JATP.net JATP:
CEF:0|JATP|Cortex|3.6.0.15|2|add-user|5|username=admin desc=Delete user
'jane' with id 'f263f0b1-353e-046c-1577-6adc1c96cb62' json={ "user_id" :
"f263f0b1-353e-046c-1577-6adc1c96cb62", "user_name" : "jane"}
<134>Nov 24 14:31:20 tap0.eng.JATP.net JATP:
CEF:0|JATP|Cortex|3.6.0.15|2|update-user|5|username=admin desc=Updated
user id '27ee212e-855d-08d4-953f-6b9cea46a679': name 'john', is admin:
yes, has debug: yes, reset password: no json={ "user_id" : "27ee212e-
855d-08d4-953f-6b9cea46a679", "user_name" : "john", "is_admin" : 1,
"has_debug": 1 , "reset_password" : 0}
```

Using CEF Alert eventID or incidentID to Display Details in the Juniper ATP Appliance Web UI

Given an incidentID or eventID, you can use the following URLs to display relative details in the Juniper ATP Appliance Web UI.

Replace “JATP_HOSTNAME_HERE” with your Juniper ATP Appliance host name, and replace “0000000” with the event_id or incident_id.

- https://JATP_HOSTNAME_HERE/admin/index.html?incident_id=0000000
- https://JATP_HOSTNAME_HERE/admin/index.html?event_id=0000000

NOTE The system will prompt for login/password if no login session is currently active.

CEF Extension Field Key=Value Pair Definitions

Juniper ATP Appliance uses the following parameters in its CEF extension field key=value pairs. The keys in extension have "=" sign; for example:. cncServers=a.b.c.d eventId=123. The fields before extensions are surrounded by pipes ("|"); for example: |login|, |cnc|, |JATP|.

The following table defines each extension field key in CEF and/or Syslog messages.

Table 3-4 Extension field keys in CEF and/or Syslog messages

Extension Field Key	Full Name & Description	Event Type	Data Type & Length	CEF or Syslog Key Value (Example)
description= Only for System Audit	description desc is the description of the system audit event	Audit	String 1023 characters	description=update-user

Table 3-4 Extension field keys in CEF and/or Syslog messages

Extension Field Key	Full Name & Description	Event Type	Data Type & Length	CEF or Syslog Key Value (Example)
json=	json output sends different data depending on what kind of System Audit event is referenced. The following sample json= is for update-user: json = { "user_id" : "2721f188-682e-03d0-6dfa-5d5d688047b6", "username" : "test.JATP", "is_admin" : 0, "has_debug": 1 , "reset_password" : 0}	Audit	string 1023 characters	json= This json= field is for login: <134> Nov 23 18:50:00 tap0.test.JATP.net JATP: CEF:0|JATP|Cortex|3.6.0.15|2|login|5|username=admin desc=description json={ "user_id" : "8d7c450e-df6a-0ab6-193d-143bfc6f7cac", "user_name" : "test.JATP", "is_admin" : 0, "has_debug": 1 , "reset_password" : 1}
login	Login	Audit	String	login <134> Nov 23 18:50:00 tap0.test.JATP.net JATP: CEF:0|JATP|Cortex|3.6.0.15|2|login|5|username=admin desc=description json={ "user_id" : "8d7c450e-df6a-0ab6-193d-143bfc6f7cac", "user_name" : "test.JATP", "is_admin" : 0, "has_debug": 1 , "reset_password" : 1}
login-fail	Login failure	Audit	String	login-fail <134> Nov 23 18:50:00 tap0.test.JATP.net JATP: CEF:0|JATP|Cortex|3.6.0.15|2|login-fail|5|username=admin desc=description json={ "user_id" : "8d7c450e-df6a-0ab6-193d-143bfc6f7cac", "user_name" : "test.JATP", "is_admin" : 0, "has_debug": 1 , "reset_password" : 1}

Table 3-4 Extension field keys in CEF and/or Syslog messages

Extension Field Key	Full Name & Description	Event Type	Data Type & Length	CEF or Syslog Key Value (Example)
logout	Lockout	Audit	String	logout <134> Nov 23 18:50:00 tap0.test.JATP.net JATP: CEF:0|JATP|Cortex|3.6.0.15|2|logout|5|username=admin desc=description json={ "user_id" : "8d7c450e-df6a-0ab6-193d-143bfc6f7cac", "user_name" : "test.JATP", "is_admin" : 0, "has_debug": 1 , "reset_password" : 1}
add-user	Add User	Audit	String	add-user <134> Nov 23 18:50:00 tap0.test.JATP.net JATP: CEF:0|JATP|Cortex|3.6.0.15|2|add-user|5|username=admin desc=description json={ "user_id" : "8d7c450e-df6a-0ab6-193d-143bfc6f7cac", "user_name" : "test.JATP", "is_admin" : 0, "has_debug": 1 , "reset_password" : 1}
update-user	Update User	Audit	String	update-user <134> Nov 23 18:50:00 tap0.test.JATP.net JATP: CEF:0|JATP|Cortex|3.6.0.15|2|update-user|5|username=admin desc=description json={ "user_id" : "8d7c450e-df6a-0ab6-193d-143bfc6f7cac", "user_name" : "test.JATP", "is_admin" : 0, "has_debug": 1 , "reset_password" : 1}

Table 3-4 Extension field keys in CEF and/or Syslog messages

Extension Field Key	Full Name & Description	Event Type	Data Type & Length	CEF or Syslog Key Value (Example)
update-system-config	System Config Update	Audit	String	update-system-config <134>Nov 24 14:35:48 tap0.eng.JATP.net JATP: CEF:0|JATP|Cortex|3.6.0.15|2|update-system-config|5|username=admin desc=Updated update settings: software auto update: 'yes', Set hostname: 'tap0', Set server_fqdn : 'tap0.eng.JATP.net', Set ivp_format : 'application/zip' remote shell enabled: yes json={ "do_auto_update" : 1, "hostname" : "tap0", "server_fqdn" : "tap0.eng.JATP.net", "ivp_format" : "application/zip", "remote_shell_enabled : 1
reboot	Reboot	Audit	String	reboot <134> Nov 23 18:50:00 tap0.test.JATP.net JATP: CEF:0|JATP|Cortex|3.6.0.15|2|reboot|5|username=admin desc=description json={ "user_id" : "8d7c450e-df6a-0ab6-193d-143bfc6f7cac", "user_name" : "test.JATP", "is_admin" : 0, "has_debug": 1 , "reset_password" : 1}
appliance-connect-health	health of appliance connection	Audit	String	appliance-connect-health <134> Nov 23 18:50:00 tap0.test.JATP.net JATP: CEF:0|JATP|Cortex|3.6.0.15|2|appliance-connect-health|5|username=admin desc=description json={ "user_id" : "8d7c450e-df6a-0ab6-193d-143bfc6f7cac", "user_name" : "test.JATP", "is_admin" : 0, "has_debug": 1 , "reset_password" : 1}

Table 3-4 Extension field keys in CEF and/or Syslog messages

Extension Field Key	Full Name & Description	Event Type	Data Type & Length	CEF or Syslog Key Value (Example)
link-health	Link health			link-health <134> Nov 23 18:50:00 tap0.test.JATP.net JATP: CEF:0|JATP|Cortex|3.6.0.15|2|link-health|5|username=admin desc=description json={ "user_id" : "8d7c450e-df6a-0ab6-193d-143bfc6f7cac", "user_name" : "test.JATP", "is_admin" : 0, "has_debug": 1 , "reset_password" : 1}
traffic-health	Traffic health			traffic-health <134> Nov 23 18:50:00 tap0.test.JATP.net JATP: CEF:0|JATP|Cortex|3.6.0.15|2|traffic-health|5|username=admin desc=description json={ "user_id" : "8d7c450e-df6a-0ab6-193d-143bfc6f7cac", "user_name" : "test.JATP", "is_admin" : 0, "has_debug": 1 , "reset_password" : 1}
clear-db	Clear DB	Audit	String	clear-db <134>Nov 24 16:32:03 tap0.eng.JATP.net JATP: CEF:0|JATP|Cortex|3.6.0.15|2|clear-db|5|username=admin desc=Clear event database json={ "status" : 0}
restart-services	Restart Services	Audit	String	restart-services <134>Nov 24 14:37:07 tap54.eng.JATP.netJATP: CEF:0|JATP|Cortex|3.6.0.15|2|restart-services|5|username=admin desc=Restart services json={ "status" : 0}

Table 3-4 Extension field keys in CEF and/or Syslog messages

Extension Field Key	Full Name & Description	Event Type	Data Type & Length	CEF or Syslog Key Value (Example)
add-report	Add Report	Audit	String	add-report <134>Nov 24 14:37:32 tap0.eng.JATP.net JATP: CEF:0|JATP|Cortex|3.6.0.15|2|add-report|5|username=admin desc=Add report (id '300BF9F1-973B-4523-8BEB-B82B70B78925') json={ "report_id" : "300BF9F1-973B-4523-8BEB-B82B70B78925"}
delete-report	Delete Report	Audit	String	delete-report <134>Nov 24 14:37:41 tap0.eng.JATP.netJATP JATP: CEF:0|JATP|Cortex|3.6.0.15|2|delete-report|5|username=admin desc=Delete report (id 'CF411F54-EB45-0C41-654A-AFA1B9FF9DEB') json={ "report_id" : "CF411F54-EB45-0C41-654A-AFA1B9FF9DEB"}
add-notification	Add Notification	Audit	String	add-notification <134>Nov 24 14:35:04 tap0.eng.JATP.net JATP: CEF:0|JATP|Cortex|3.6.0.15|2|add-notification|5|username=admin desc=Add notification (id 'AD5D3D6C-6A51-4BB5-958A-A1B392D3DFDA') json={ "report_id" : "AD5D3D6C-6A51-4BB5-958A-A1B392D3DFDA"
delete-notification	Delete Notification	Audit	String	delete-notification <134>Nov 24 14:38:13 tap0.eng.JATP.net JATP: CEF:0|JATP|Cortex|3.6.0.15|2|delete-notification|5|username=admin desc=Delete notification (id '26EC53CA-B1A7-4DBA-A111-013CD2548FFD') json={ "report_id" : "26EC53CA-B1A7-4DBA-A111-013CD2548FFD"}

Table 3-4 Extension field keys in CEF and/or Syslog messages

Extension Field Key	Full Name & Description	Event Type	Data Type & Length	CEF or Syslog Key Value (Example)
add-siem	Add SIEM	Audit	String	add-siem <134>Nov 24 14:29:08 tap0.eng.JATP.net JATP: CEF:0|JATP|Cortex|3.6.0.15|2|add-siem|5|username=admin desc=Add SIEM upload to 'splunk-test.eng.JATP.net' (id '768687F7-4A81-42AF-897A-6814A48D4155') json={ "report_id" : "768687F7-4A81-42AF-897A-6814A48D4155", "host_name": "splunk-test.eng.JATP.net"}
delete-siem	Delete SIEM	Audit	String	delete-siem <134>Nov 24 14:38:57 tap0.eng.JATP.net JATP: CEF:0|JATP|Cortex|3.6.0.15|2|delete-siem|5|username=admin desc=Delete SIEM upload to '10.9.8.7' (id '8165C17F-F375-4226-8E7A-BC8E690E3370') json={ "report_id" : "8165C17F-F375-4226-8E7A-BC8E690E3370", "host_name": "10.9.8.7"}
add-email-collector	Add Email Collector	Audit	String	add-email-collector <134>Nov 24 14:39:35 tap0.eng.JATP.net JATP: CEF:0|JATP|Cortex|3.6.0.15|2|add-email-collector|5|username=admin desc=Add email collector from '10.2.10.3' (id '5FB8FFDC-7024-467A-8AC8-6CD68CA8781D') json={ "report_id" : "5FB8FFDC-7024-467A-8AC8-6CD68CA8781D", "host_name": "10.2.10.3"}

Table 3-4 Extension field keys in CEF and/or Syslog messages

Extension Field Key	Full Name & Description	Event Type	Data Type & Length	CEF or Syslog Key Value (Example)
delete-email-collector	Delete Email Collector	Audit	String	delete-email-collector <134>Nov 24 14:39:09 tap0.eng.JATP.net JATP: CEF:0|JATP|Cortex|3.6.0.15|2|delete-email-collector|5|username=admin desc=Delete email collector from '10.2.10.7' (id '6C36F94A-3CF2-45D8-83B9-CDF50BE0490B') json={ "report_id" : "6C36F94A-3CF2-45D8-83B9-CDF50BE0490B", "host_name": "10.2.10.7"}
dst=	destinationIPAddress dst represents the IP address of the destination when any communication to an external host is observed within the detection engine.	Events	IPv4 Address 16 bytes	dst=128.12.38.6 Note: This could also be the destination IP address from which the user downloaded malware; this extension is not specific to infection only.
lastActivityTime=	Time stamp of the last activity associated with this event.	Events	strings 1023 characters	lastActivityTime=2016-12-26 18:06:52.333023+00
fileHash=	fileHash represents the checksum of the malware object from a Juniper ATP Appliance detection engine	Events	255 characters	filehash=3174990d783f4a1bd5e99db60176b920
fileName=	fileName represents the name of the object file analyzed by Juniper ATP Appliance detection engine	Events	255 characters	fileName=Trojan.Generic
fileType=	fileType represents the analyzed object type.	Events	255 characters	fileType=pdf
startTime=	startTime represents the date and time of the initial malware event in the Juniper ATP Appliance detection system.	Event	strings 1023 characters	startTime=2016-08-11 18:22:19
malwareSeverity=	Severity risk in the range 0-10	Event	integer	malwareSeverity=0.75

Table 3-4 Extension field keys in CEF and/or Syslog messages

Extension Field Key	Full Name & Description	Event Type	Data Type & Length	CEF or Syslog Key Value (Example)
malwareCategory=	Juniper ATP Appliance malware category determination	Event	string 1023 characters	malwareCategory=
cncServers=	IP address of the CnC server associated with this event	Event	IPv4 Address 16 bytes	cncServers=31.170.165.131
submissionTime=	Date and time of user File Submit option from the CM Web UI	Event	data	submissionTime=2016-12-26 17:54:46.04875+00
src=	The source address associated with this malware event.	Event	IPv4 Address 16 bytes	src=64.202.116.124
dst=	The source address associated with this malware event.	Event	IPv4 Address 16 bytes	dst=10.1.1.1
reqReferer=	The URL of the HTTP address that triggered or with which the malware exploit is associated	Event	URL	reqReferer=http://www.christianforums.com/
url=	The URL associated with an exploit malware event.	Event	URL	url=http://64.202.116.124/5butqfk/?2
ExternalId=	The Juniper ATP Appliance incident number. Example: externalId=1003	External ID	The Juniper ATP Appliance incident number.	Example: externalId=1003
EventId=	The Juniper ATP Appliance Event ID number. Example: eventId=13405	Event ID	The Juniper ATP Appliance Event ID number.	Example: eventId=13405
username=	The admin or user's username Username is included in System Audit Syslogs.	Event	string	Example: username="s_roberts"
port=	Port number associated with the event	Event	integer	port=22
protocol=	Protocol associated with the event	Event	integer	protocol=http

Table 3-4 Extension field keys in CEF and/or Syslog messages

Extension Field Key	Full Name & Description	Event Type	Data Type & Length	CEF or Syslog Key Value (Example)
appliance-connect-health	Connection health between Web Collectors and Secondary Cores.	Health	String	<134> Nov 23 18:50:00 tap0.test.JATP.net JATP: CEF:0|JATP|Cortex|3.6.0.15|2|appliance-connect-health|5|username=admin desc=description json={ "user_id" : "8d7c450e-df6a-0ab6-193d-143bfc6f7cac", "user_name" : "test.JATP", "is_admin" : 0, "has_debug": 1 , "reset_password" : 1}
traffic-health	Traffic health	Health	String	traffic-health <134> Nov 23 18:50:00 tap0.test.JATP.net JATP: CEF:0|JATP|Cortex|3.6.0.15|2|traffic-health|5|desc=description json={ "user_id" : "8d7c450e-df6a-0ab6-193d-143bfc6f7cac", "user_name" : "test.JATP", "is_admin" : 0, "has_debug": 1 , "reset_password" : 1}
link-health	Link health	Health	String	link-health <134> Nov 23 18:50:00 tap0.test.JATP.net JATP: CEF:0|JATP|Cortex|3.6.0.15|2|link-health|5|desc=description json={ "user_id" : "8d7c450e-df6a-0ab6-193d-143bfc6f7cac", "user_name" : "test.JATP", "is_admin" : 0, "has_debug": 1 , "reset_password" : 1}
services-health	Services health	Health	String	services-health <134> Nov 23 18:50:00 tap0.test.JATP.net JATP: CEF:0|JATP|Cortex|3.6.0.15|2|services-health|5|desc=description json={ "user_id" : "8d7c450e-df6a-0ab6-193d-143bfc6f7cac", "user_name" : "test.JATP", "is_admin" : 0, "has_debug": 1 , "reset_password" : 1}

Table 3-4 Extension field keys in CEF and/or Syslog messages

Extension Field Key	Full Name & Description	Event Type	Data Type & Length	CEF or Syslog Key Value (Example)
src_hostname	Hostname of the threat source. Information is obtained from Active Directory (applicable to SMB Lateral detection where host details of threat source are obtained from Active Directory)	Event	String	Dec 2 17:17:25 IP Dec 02 17:08:08 hostname CEF:0|JATP|Cortex|3.6.0.1444|cnc|TROJAN_DUSV EXT.|10|externalId=1489 eventId=14046 lastActivityTime=2016-05-03 00:08:08.349+00 src=31.170.165.131 dst=172.20.1.201 src_hostname= dst_hostname=emailuser-host src_username= dst_username=emailuser malwareSeverity=0.75 malwareCategory=Trojan_Generic cncServers=31.170.165.131
dst_hostname	Endpoint hostname (threat target); information is obtained from Active Directory	Event	String	Dec 6 16:52:22 IP Dec 06 16:51:38 hostname CEF:0|JATP|Cortex|3.6.0.1444|email|Phishing|8|externalId=1504 eventId=14067 lastActivityTime=2016-12-06 23:51:38+00 src= dst= src_hostname= dst_hostname= src_username= dst_username= src_email_id=src@abc.com dst_email_id={test@abc.com} startTime=2016-12-06 23:51:38+00 url=http://greatfilesarey.asia/QA/files_to_pcaps/74280968a4917da52b5555351eeda969.bin fileHash=bce00351cfc559afec5beb90ea387b03788e4af5 fileType=PE32 executable (GUI) Intel 80386, for MS Windows

Table 3-4 Extension field keys in CEF and/or Syslog messages

Extension Field Key	Full Name & Description	Event Type	Data Type & Length	CEF or Syslog Key Value (Example)
src_username	Username of the person logged in into the threat source host. Information is obtained from Active Directory (applicable to Lateral spread because only then we will get the host details of threat source from Active Directory)	Event	String	Dec 3 16:42:24 IP Dec 03 16:42:54 hostname CEF:0|JATP|Cortex|3.6.0.1444|email|Phishing|8|externalId=1499 eventId=14058 lastActivityTime=2016-05-03 23:42:54+00 src= dst= src_hostname= dst_hostname= src_username= dst_username= src_email_id=src@abc.com dst_email_id={test1@abc.com,test2@abc.com,test3@abc.com} url=http://greatfilesarey.asia/QA/ fileType=PE32 executable (GUI) Intel 80386, for MS Windows
dst_username: Username of the person logged in into the threat target host. Information is obtained from Active Directory.				Dec 3 16:42:24 IP Dec 03 16:42:54 hostname CEF:0|JATP|Cortex|3.6.0.1444|email|Phishing|8|externalId=1499 eventId=14058 lastActivityTime=2016-05-03 23:42:54+00 src= dst= src_hostname= dst_hostname= src_username= dst_username= src_email_id=src@abc.com dst_email_id={test1@abc.com,test2@abc.com,test3@abc.com} url=http://greatfilesarey.asia/QA/ fileType=PE32 executable (GUI) Intel 80386, for MS Windows

Table 3-4 Extension field keys in CEF and/or Syslog messages

Extension Field Key	Full Name & Description	Event Type	Data Type & Length	CEF or Syslog Key Value (Example)
src_email_id	Email ID of the sender of the email	Event	String	Dec 3 16:42:24 IP Dec 03 16:42:54 hostname CEF:0|JATP|Cortex|3.6.0.1444|email|Phishing|8|externalId=1499 eventId=14058 lastActivityTime=2016-05-03 23:42:54+00 src_email_id=src@abc.com dst_email_id={test1@abc.com,test2@abc.com,test3@abc.com} startTime=2016-05-03 23:42:54+00 url=http://greatfilesarey.asia/QA/files_to_pcaps/74280968a4917da52b5555351eeda969.bin fileType=PE32 executable (GUI) Intel 80386, for MS Windows
dst_email_id	Email IDs of recipients	Event	String	Dec 3 16:42:24 IP Dec 03 16:42:54 hostname CEF:0|JATP|Cortex|3.6.0.1444|email|Phishing|8|externalId=1499 eventId=14058 lastActivityTime=2016-05-03 23:42:54+00 src_email_id=src@abc.com dst_email_id={test1@abc.com,test2@abc.com,test3@abc.com} startTime=2016-05-03 23:42:54+00 url=http://greatfilesarey.asia/QA/files_to_pcaps/74280968a4917da52b5555351eeda969.bin fileType=PE32 executable (GUI) Intel 80386, for MS Windows

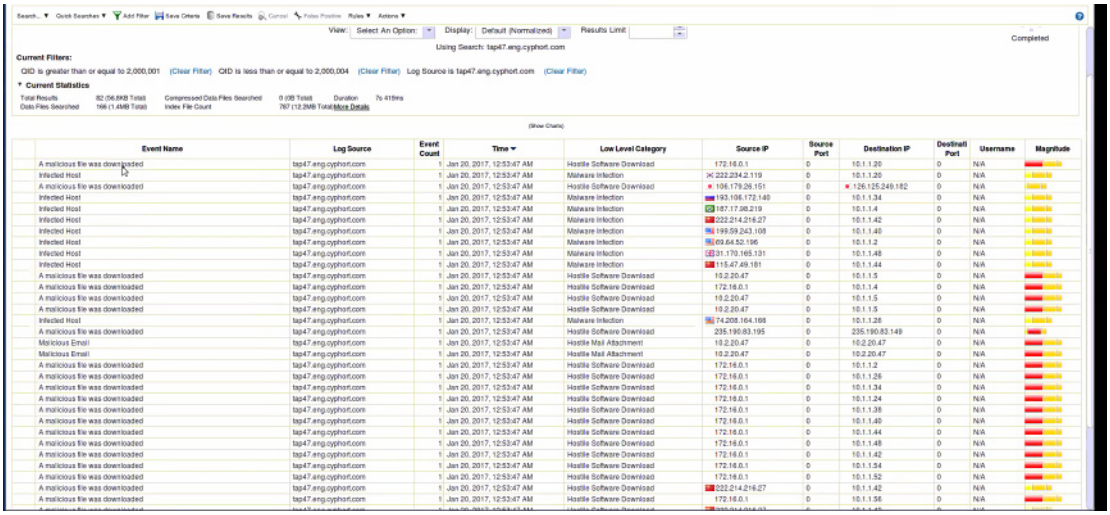
Table 3-4 Extension field keys in CEF and/or Syslog messages

Extension Field Key	Full Name & Description	Event Type	Data Type & Length	CEF or Syslog Key Value (Example)
url	Bad URLs sent in email (In CEF/Syslog, the maximum number of bad URLs Juniper ATP Appliance sends is 5, separated by a character space)	Event	String	Dec 3 16:42:24 IP Dec 03 16:42:54 hostname CEF:0|JATP|Cortex|3.6.0.1444|email|Phishing|8|externalId=1499 eventId=14058 lastActivityTime=2016-05-03 23:42:54+00 src_email_id=src@abc.com dst_email_id={test1@abc.com,test2@abc.com,test3@abc.com} startTime=2016-05-03 23:42:54+00 url=http://greatfilesarey.asia/QA/files_to_pcaps/74280968a4917da52b5555351eeda969.bin fileType=PE32 executable (GUI) Intel 80386, for MS Windows

Installing the QRadar Juniper ATP Appliance DSM for LEEF Alerts

Support for QRadar SIEM LEEF Alert Format

The Log Event Extended Format (LEEF) is a customized event format for IBM® Security QRadar®.



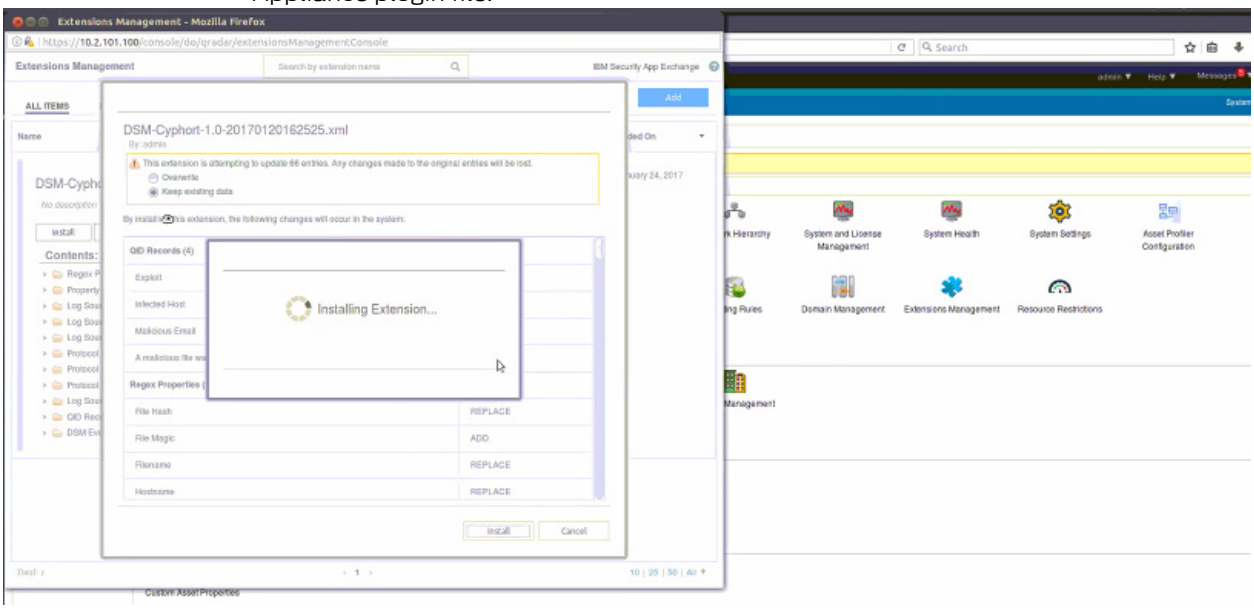
NOTE Installation of the DSM-Juniper ATP Appliance extension plugin on the QRadar server is required.

For configuration information, refer to the Juniper ATP Appliance Operator's Guide.

To Install the QRadar DSM Juniper ATP Appliance Extension Plugin

Step 1 Enable the LEEF options per data type from the Juniper ATP Appliance Central Manager Web UI Config>Notifications>SIEM Settings pages.

Step 2 On the QRadar device, use the Extension Management tab install the Juniper ATP Appliance plugin file.



Step 3 Download the DSM-Juniper ATP Appliance extension plugin file to the Juniper ATP Appliance.