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About the Documentation
- Refer to the Technical Documentation page on the Forescout website for additional documentation: https://www.Forescout.com/company/technical-documentation/
- Have feedback or questions? Write to us at documentation@forescout.com

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About the CEF Plugin

The CEF Plugin is a component of the Forescout Core Extensions Module. See Core Extensions Module Information for details about the module.

The CEF Plugin sends policy compliance and other host information detected by Forescout eyeSight to SIEM systems using the CEF messaging format.

In addition, SIEM servers can trigger remediation actions by sending alert messages to the Forescout platform. This functionality uses the alert messaging function common to most SIEM servers, and non-CEF-standard text messages.

About Certification Compliance Mode

Forescout Core Extensions Module: CEF Plugin supports Certification Compliance mode. For information about this mode, refer to the Forescout Installation Guide.

Automated Reporting Using CEF

The Forescout platform can automatically update SIEM servers in several ways:

**Compliance-based Reporting** – The Forescout platform can automatically notify SIEM servers of endpoints that pass or fail Forescout compliance policies. For example, such policies detect hosts running out-of-date antivirus signature files, hosts using unauthorized Peer to Peer applications, or hosts with missing vulnerability patches.

**Host Property Tracking** – This plugin lets the Forescout platform send customized CEF messages based on any policy conditions. Typically, CEF messaging is used to report a change in the broad range of host conditions that the Forescout platform monitors.

Trigger Forescout Actions Based on SIEM Messages

You can implement a variety of Forescout actions on hosts, based on messages received from the SIEM server. To trigger actions, SIEM servers send the Forescout platform a simple text message. See Receive SIEM Messages – Policy Properties for details.

Forescout/CEF Architecture

You should have a basic understanding of the architecture of the CEF and Forescout platforms.

- Several CounterACT® devices can be assigned to a specific SIEM server or to several SIEM servers.
- A default server can be defined to handle CounterACT devices that have not been assigned to a SIEM server.
Each CounterACT device can only be assigned to one SIEM server.

**How it Works**

When using the plugin for the first time, the Forescout platform updates CEF with compliance status changes in real-time. The Forescout platform reports the compliance status of each endpoint whenever it changes.

Predefined periodic update messages can be sent as well. The time interval of the periodical report is configurable.

Automated compliance status reporting is based on evaluation of Forescout compliance policies.

In addition, customized CEF messages can report host information for hosts that satisfy the conditions of any Forescout policy.

**What to Do**

To work with this plugin:

- Verify that requirements are met. See Requirements.
- Configure and start the plugin. See Configure the Plugin.
- Configure Forescout compliance policies to handle CEF events.
- Set up the CEF Console to view Forescout information.

**Requirements**

The plugin requires the following Forescout releases and other components:

- Forescout version 8.1 or 8.2.
- Target SIEM servers must parse CEF messages.
- Target SIEM servers must be able to receive messages from CounterACT Appliances and Enterprise Managers.
- If you are using Flexx licensing, ensure that you have a valid Forescout eyeControl (ForeScout CounterACT Control) license, to use enforcement actions provided by the component. Refer to the *Forescout Flexx Licensing How-to Guide* for more information about managing Flexx licenses.

**About Support for Dual Stack Environments**

The Forescout platform detects endpoints and interacts with network devices based on both IPv4 and IPv6 addresses. However, **IPv6 addresses are not yet supported by this module.** The functionality described in this document is based
only on IPv4 addresses. IPv6-only endpoints are typically ignored or not detected by the properties, actions, and policies provided by this module.

Configure the Plugin

Configuration information is needed to ensure authentication and connection from the plugin to the SIEM server and to handle message transactions. Several CounterACT devices can be assigned to a specific SIEM server. A default server can be defined to handle CounterACT devices that have not been assigned to a SIEM server.

**To configure the plugin:**

1. Select **Configure**.

2. To add a SIEM server, select **Add**.
3. In the General pane, enter the server parameters.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Enter the name of the SIEM server.</td>
</tr>
<tr>
<td>Use HTTPS/UDP for Connection</td>
<td>Select either <strong>Use HTTPS for Connection</strong> or <strong>Use UDP for Connection</strong>. Use HTTPS when you want a secure connection. When <strong>Use HTTPS for Connection</strong> is selected, the URL and the Server Token fields are enabled. When <strong>Use UDP for Connection</strong> is selected, the IP Address and Port fields are enabled.</td>
</tr>
<tr>
<td>Validate HTTPS Certificate</td>
<td>Enable or disable validation of the HTTPS certificate. When you select <strong>Use HTTPS for Connection</strong>, the <strong>Validate HTTPS Certificate</strong> option is selected.</td>
</tr>
<tr>
<td>URL</td>
<td>Configure a URL as the connection to the SIEM server if you selected <strong>Use HTTPS for Connection</strong>. This is the URL of the HTTPS portal.</td>
</tr>
<tr>
<td>Server Token</td>
<td>Enter the server token if you selected <strong>Use HTTPS for Connection</strong>.</td>
</tr>
<tr>
<td>IP Address</td>
<td>Enter the IP address of the SIEM server if you selected <strong>Use UDP for Connection</strong>.</td>
</tr>
<tr>
<td>Port</td>
<td>Enter the UDP Syslog port used by CEF if you selected <strong>Use UDP for Connection</strong>.</td>
</tr>
</tbody>
</table>
### Report Time Interval
Specify how often to update the SIEM server with compliance information.
If a compliance event occurs before this time period elapses, a message is sent.
The Forescout platform reports the compliance status of each endpoint both periodically and whenever this status changes.

<table>
<thead>
<tr>
<th>Comment</th>
<th>Enter comments about the SIEM server.</th>
</tr>
</thead>
</table>

4. Select **Next**.

If **Validate HTTPS Certificate** is not selected, a warning message about the security of the connection is displayed. Select **Yes**.

5. Select **Default Server** to designate this server as the default server or select **Assign CounterACT Devices** to assign specific CounterACT devices to this server.

6. Select **Finish**. The server configuration is listed in the CEF pane.
7. Use **Add/Edit/Remove** to manage the CEF configurations.

### Include Syslog Message Header

You can add a syslog header to all CEF messages delivered to the SIEM servers. This option may require additional configuration on the SIEM servers.

**To include syslog message headers in CEF messages:**

1. Select **Options** in the CEF pane.

2. Select **Add Syslog header to message** and define the following parameters.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Identity</strong></td>
<td>A string to identify the source of the syslog message (default: CounterACT)</td>
</tr>
<tr>
<td><strong>Facility</strong></td>
<td>Syslog message facility (default: local1)</td>
</tr>
<tr>
<td><strong>Priority</strong></td>
<td>Syslog message priority (default: info)</td>
</tr>
</tbody>
</table>
Ensure That the Component Is Running

After installing the component (and configuring it, if necessary), ensure that it is running.

To verify:
1. Select Tools > Options > Modules.
2. Navigate to the component and hover over the name to view a tooltip indicating if it is running on Forescout devices in your deployment. In addition, next to the component name, you will see one of the following icons:
   - - The component is stopped on all Forescout devices.
   - - The component is stopped on some Forescout devices.
   - - The component is running on all Forescout devices.
3. If the component is not running, select Start, and then select the relevant Forescout devices.
4. Select OK.

Create Custom CEF Policies

Custom policy tools provide you with an extensive range of options for detecting and handling endpoints. Specifically, use the policy to instruct the Forescout platform to apply a policy action to hosts that match (or do not match) property values defined in policy conditions.

For more information about working with policies, select Help from the policy wizard.

To create a custom policy:
1. Log in to the Console and select Policy.
2. Create or edit a policy.

Receive SIEM Messages – Policy Properties

Policy properties let you instruct the Forescout platform to detect hosts with specific attributes. For example, create a policy that instructs the Forescout platform to detect hosts running a certain Operating System or with a certain application installed.

In addition to the bundled properties and actions available for detecting and handling endpoints, you can work with plugin related properties to create custom policies.
To access properties:

1. Go to the Properties tree from the Policy Conditions dialog box.

2. Expand the **Events** folder in the Properties tree. The following property is available:
   - **SIEM Message**

### SIEM Message

This property stores an unordered list of SIEM message strings. Messages are added to a host when the message references that host. For example, the SIEM Messages field for a host can contain the following values:

- **VulnerabilityDetected, AntiVirusUpdate, RestoreFromVLAN**

Each entry corresponds to a message string that is sent by the SIEM server. New message strings are added to the existing values, but the queue contains only one instance of each message string. For example, if another vulnerability is detected on a host, the new **VulnerabilityDetected** message overwrites the existing message in the list.

You can use this property with the alert messaging capabilities of most SIEM servers to trigger Forescout actions. For example, you can configure a policy to assign hosts to a specific VLAN when the message **VulnerabilityDetected** is sent by the SIEM server.

To set up this functionality:

- Define a policy with a condition that detects hosts based on SIEM messages.
• Use the messaging or alert capabilities of your SIEM server to define a message to the Forescout platform with the desired message string.

When SIEM server logic generates an alert or remediation condition:

1. The SIEM server sends the predefined message to the Forescout platform.
2. The Forescout platform parses the message and stores the message text in the SIEM Messages property of the relevant host.
3. The Forescout policy detects hosts by matching values in the SIEM Messages property.
4. The Forescout platform implements the actions defined in the policy.
5. The SIEM Message event is displayed in the Console, for example, in the Profile tab.

**SIEM Server Event Messages**

Embed the following command strings in the message that the SIEM server sends to the Forescout platform. When the Forescout platform receives these messages, it parses the command strings to modify the *SIEM Message* property of the target host.

_Add a string to the SIEM Messages host property_

To update the value of the *SIEM Messages* host property, embed the following command string in the message that the SIEM server sends to the Forescout platform:

```
fstool siem_update [-N] [-O] <MessageString> <IPAddress>
```

Where

- `<MessageString>` is a one-word string. No spaces are allowed. This string is added to the contents of the *SIEM Messages* property.
- `<IPAddress>` identifies the host on which the action is performed. The Forescout platform updates the *SIEM Messages* property of this host with the *MessageString* value.

You can use the following optional flags with this command:

- `-N` creates a new host if the host does not exist
- `-O` updates online status when updating a property

_Delete a string from the SIEM messages host property_

To delete a value in the *SIEM Messages* host property, embed the following command string in the message that the SIEM server sends to the Forescout platform:

```
fstool siem_update -d <MessageString> <IPAddress>
```

Where

- `<MessageString>` is a one-word string. No spaces are allowed. If this string exists in the *SIEM Messages* list for the host, it is deleted.
<IPAddress> identifies the host on which the action is performed. The Forescout platform deletes the MessageString entry from the SIEM Messages property of this host.

Clear the SIEM messages host property

To delete all values in the SIEM Messages host property, embed the following command string in the message that the SIEM server sends to the Forescout platform:

```
fstool siem_update -D <IPAddress>
```

Where <IPAddress> identifies the host on which the action is performed. The Forescout platform clears the SIEM Messages property for the specified host.

Send CEF Messages – Policy Actions

Policy actions let you instruct the Forescout platform how to control detected devices. For example, assign potentially compromised endpoints to an isolated VLAN, or send the endpoint user or IT team an email.

In addition to the bundled actions available for handling endpoints, you can work with the plugin related actions to create custom policies.

To access actions:

1. Go to the Actions tree from the Policy Actions dialog box.
2. Expand the Audit folder. The following actions are available:
   - Send Compliant CEF message
   - Send Customized CEF Message
   - Send Not Compliant CEF message

Send Compliant CEF message

This action sends a CEF message to the SIEM server for each host that meets the conditions of the policy. It is located in the Audit group of the Actions tree.

You can apply standard scheduling options to this action.

The message combines standard CEF message and dictionary fields with extension fields defined by the Forescout platform. For more information on message data fields, see Device Event Mapping to CEF Data Fields.
A sample message in CEF format is shown below.

<table>
<thead>
<tr>
<th>Field</th>
<th>Sample Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version</td>
<td>CEF:0</td>
</tr>
<tr>
<td>Device vendor</td>
<td>Forescout Technologies</td>
</tr>
<tr>
<td>Device product</td>
<td>CounterAct</td>
</tr>
<tr>
<td>Device version</td>
<td>6.3.4</td>
</tr>
<tr>
<td>Signature ID</td>
<td>COMPLIANCE</td>
</tr>
<tr>
<td>Name</td>
<td>host is compliant</td>
</tr>
<tr>
<td>Priority</td>
<td>1</td>
</tr>
<tr>
<td>CounterACT CEF extension fields</td>
<td>cs1Label=Compliancy Policy Name</td>
</tr>
<tr>
<td></td>
<td>cs2Label=Compliancy Policy Subrule Name</td>
</tr>
<tr>
<td></td>
<td>cs3Label=Host Compliancy Status</td>
</tr>
<tr>
<td></td>
<td>cs4Label=Compliancy Event Trigger</td>
</tr>
<tr>
<td></td>
<td>cs1=AntiVirus Compliance</td>
</tr>
<tr>
<td></td>
<td>cs2=Compliant</td>
</tr>
<tr>
<td></td>
<td>cs3=yes</td>
</tr>
<tr>
<td></td>
<td>cs4=CounterAct Action</td>
</tr>
<tr>
<td>Host MAC address</td>
<td>dmac=00:1c:7e:d3:36:a4</td>
</tr>
<tr>
<td>Host IP address</td>
<td>dst=10.31.1.101</td>
</tr>
<tr>
<td>Destination domain name</td>
<td>dntdom=DOM31</td>
</tr>
<tr>
<td>Host name</td>
<td>dhost=QA-LAP-TOSHIBA</td>
</tr>
<tr>
<td>Host user</td>
<td>duser=administrator (local)</td>
</tr>
<tr>
<td>CounterACT device IP</td>
<td>dvc=10.31.1.153</td>
</tr>
<tr>
<td>CounterACT device name</td>
<td>dvchost=Q31A</td>
</tr>
<tr>
<td>Event report time</td>
<td>rt=1346923305000</td>
</tr>
</tbody>
</table>

**Send Customized CEF Message**

This action sends a customized CEF message to the SIEM server for each host that meets the conditions of the policy.
For more information on message data fields, see Device Event Mapping to CEF Data Fields.

To configure a customized CEF message:

1. Edit a policy.
2. Add an action. In the Actions tree, expand the Audit folder and select **Send Customized CEF message**.

3. Specify the following CEF message header parameters:
   - Signature ID
   - Event Type
   - Severity

   The Forescout platform automatically adds vendor-specific fields to the final message header.

4. (Optional) In the **CEF Extension Dictionary fields** area, edit the list of dictionary fields to be included in the message. Each entry in the list has the following format:

   `<CEF event data field>={CounterACT property tag}`

   Select **Add Tags** to insert a CounterACT property tag in an entry.

5. (Optional) In the **CounterACT CEF Extension fields** area, define the fields to be included in the message. Each entry in the list has the following format:

   `Cs#Label=<field label>,cs#={CounterACT property tag}`
Select **Add Tags** to insert a CounterACT property tag in an entry.

6. (Optional) Select the Schedule tab to apply standard scheduling options to the action.

7. Select **OK** to add the action to the policy.

**Send Not Compliant CEF message**

This action sends a CEF message to the SIEM server for each host that does not satisfy the conditions of the policy. It is located in the Audit group of the Actions tree.

You can apply standard scheduling options to this action.

The message combines standard CEF message and dictionary fields with extension fields defined by the Forescout platform. For more information on message data fields, see [Device Event Mapping to CEF Data Fields](#).

A sample message in CEF format is shown below.

<table>
<thead>
<tr>
<th>Field</th>
<th>Sample Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version</td>
<td>CEF:0</td>
</tr>
<tr>
<td>Device vendor</td>
<td>Forescout Technologies</td>
</tr>
<tr>
<td>Device product</td>
<td>CounterAct</td>
</tr>
<tr>
<td>Device version</td>
<td>6.3.4</td>
</tr>
<tr>
<td>Signature ID</td>
<td>NONCOMPLIANCE</td>
</tr>
<tr>
<td>Name</td>
<td>host is not compliant</td>
</tr>
<tr>
<td>Priority</td>
<td>1</td>
</tr>
<tr>
<td>CounterACT CEF extension fields</td>
<td>cs1Label=Compliancy Policy Name</td>
</tr>
<tr>
<td></td>
<td>cs2Label=Compliancy Policy Subrule Name</td>
</tr>
<tr>
<td></td>
<td>cs3Label=Host Compliancy Status</td>
</tr>
<tr>
<td></td>
<td>cs4Label=Compliancy Event Trigger</td>
</tr>
<tr>
<td></td>
<td>cs1=AntiVirus Compliance</td>
</tr>
<tr>
<td></td>
<td>cs2=AV Not Installed</td>
</tr>
<tr>
<td></td>
<td>cs3=no</td>
</tr>
</tbody>
</table>
Device Event Mapping to CEF Data Fields

This section describes the data fields in CEF notification messages.

CEF Header Fields

The following table maps CEF header data fields to Forescout event definitions.

<table>
<thead>
<tr>
<th>CEF Event Data Field</th>
<th>Data Field Meaning</th>
<th>Forescout Event Definition</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version</td>
<td>CEF format version</td>
<td>Version</td>
<td>0</td>
</tr>
<tr>
<td>Device Vendor</td>
<td>Name of vendor</td>
<td>Device Vendor</td>
<td>Forescout Technologies</td>
</tr>
<tr>
<td>Device Product</td>
<td>Product Name</td>
<td>Device Product</td>
<td>CounterACT</td>
</tr>
<tr>
<td>Device Version</td>
<td>Forescout Version</td>
<td>Device Version</td>
<td>6.3.4</td>
</tr>
<tr>
<td>Signature ID</td>
<td>Host event identifier</td>
<td>Compliancy Event Signature ID</td>
<td>COMPLIANCE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Non-Compliancy Event Signature ID</td>
<td>NONCOMPLIANCE</td>
</tr>
<tr>
<td>Name</td>
<td>Host event name</td>
<td>Compliancy Event Name</td>
<td>Host is compliant</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Non-Compliancy Event Name</td>
<td>Host is not compliant</td>
</tr>
<tr>
<td>Priority</td>
<td>Importance of the host event</td>
<td>Compliancy Event Severity</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Non-Compliancy Event Severity</td>
<td>5</td>
</tr>
</tbody>
</table>

Forescout Extension Fields

The following table lists Forescout-defined CEF extension fields. These fields are always included in Compliant and Not Compliant messages.
<table>
<thead>
<tr>
<th>CEF Event Data Field ID</th>
<th>Data Field Label</th>
<th>Host Property</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>cs1</td>
<td>Compliancy Policy Name</td>
<td>Compliancy Policy Name</td>
<td>Forescout policy name. This is a compliance policy or the name of a policy that contains a CEF messaging action.</td>
</tr>
<tr>
<td>cs2</td>
<td>Compliancy Policy Sub-rule Name</td>
<td>Compliancy Policy Sub-Rule Name</td>
<td>The sub-rule that classified the host as compliant or not compliant.</td>
</tr>
</tbody>
</table>
| cs3                    | Host Compliancy Status | Host Compliance Status | ▪ Yes: For a compliant host.  
▪ No: For a non-compliant host. |
| cs4                    | Compliancy Event Trigger | Compliancy Event Trigger | ▪ New host: For a newly discovered host.  
▪ Compliancy status changed: For a host whose status changed.  
▪ Periodical: When a host status is unchanged within the reporting time interval. |

## CEF Dictionary Fields

The following table lists standard CEF dictionary extension fields that are always included in Compliant and Not Compliant messages.

<table>
<thead>
<tr>
<th>CEF Event Field ID</th>
<th>CounterACT Property Tag</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dst</td>
<td>Ip</td>
<td>The host IP address, in dot-separated format</td>
</tr>
<tr>
<td>Dmac</td>
<td>Mac</td>
<td>The host MAC address, in colon-separated format</td>
</tr>
<tr>
<td>Duser</td>
<td>user</td>
<td>String identifying the user logged onto the host when the event occurred</td>
</tr>
<tr>
<td>Dhost</td>
<td></td>
<td>The host name</td>
</tr>
<tr>
<td>Dvc</td>
<td></td>
<td>CounterACT device IP address, in dot-separated format</td>
</tr>
<tr>
<td>Dvchost</td>
<td></td>
<td>CounterACT device host name</td>
</tr>
<tr>
<td>Rt</td>
<td></td>
<td>Event detection time, in milliseconds elapsed since Jan 1, 1970</td>
</tr>
</tbody>
</table>
Core Extensions Module Information

The CEF plugin is installed with the Forescout Core Extensions Module.

The Forescout Core Extensions Module provides an extensive range of capabilities that enhance the core Forescout solution. These capabilities enhance detection, classification, reporting, troubleshooting, and more. The following components are installed with the Core Extensions Module:

- Advanced Tools Plugin
- Device Data Publisher
- IoT Posture Assessment Engine
- CEF Plugin
- DNS Client Plugin
- Cloud Uploader
- DNS Enforce Plugin
- NBT Scanner Plugin
- DHCP Classifier Plugin
- DNS Query Extension Plugin
- Packet Engine
- Dashboards Plugin
- External Classifier Plugin
- Reports Plugin
- Data Publisher
- Flow Analyzer Plugin
- Syslog Plugin
- Data Receiver
- Flow Collector
- Technical Support Plugin
- Device Classification Engine
- IOC Scanner Plugin
- Web Client Plugin

The Core Extensions Module is a Forescout Base Module. Base Modules are delivered with each Forescout release. Upgrading the Forescout version or performing a clean installation installs this module automatically.

Additional Forescout Documentation

For information about other Forescout features and modules, refer to the following resources:

- Documentation Downloads
- Documentation Portal
- Forescout Help Tools

Documentation Downloads

Documentation downloads can be accessed from the Forescout Technical Documentation Page, and one of two Forescout portals, depending on which licensing mode your deployment is using.

- Per-Appliance Licensing Mode – Product Updates Portal
- Flexx Licensing Mode – Customer Support Portal

Software downloads are also available from these portals.

To identify your licensing mode:

- From the Console, select Help > About Forescout.
Forescout Technical Documentation Page
The Forescout Technical Documentation Page provides access to a searchable, web-based Documentation Portal as well as PDF links to the full range of technical documentation.

To access the Technical Documentation Page:
- Go to https://www.Forescout.com/company/technical-documentation/

Product Updates Portal
The Product Updates Portal provides links to Forescout version releases, Base and Content Modules, and eyeExtend products, as well as related documentation. The portal also provides a variety of additional documentation.

To access the Product Updates Portal:
- Go to https://updates.forescout.com/support/index.php?url=counteract and select the version you want to discover.

Customer Support Portal
The Downloads page on the Forescout Customer Support Portal provides links to purchased Forescout version releases, Base and Content Modules, and eyeExtend products, as well as related documentation. Software and related documentation will only appear on the Downloads page if you have a license entitlement for the software.

To access documentation on the Customer Support Portal:
- Go to https://Forescout.force.com/support/ and select Downloads.

Documentation Portal
The Forescout Documentation Portal is a searchable, web-based library containing information about Forescout tools, features, functionality, and integrations.

To access the Documentation Portal:
- Go to https://updates.forescout.com/support/files/counteract/docs_portal/

Forescout Help Tools
Access information directly from the Console.

Console Help Buttons
Use context sensitive Help buttons to quickly access information about the tasks and topics you are working with.

Forescout Administration Guide
- Select Administration Guide from the Help menu.

Plugin Help Files
After the plugin is installed, select **Tools > Options > Modules**, select the plugin and then select **Help**.

**Documentation Portal**

- Select **Documentation Portal** from the **Help** menu to access the **Documentation Portal**.