



ForeScout App for Splunk How-to Guide Version 1.0.1





About the ForeScout App for Splunk

The ForeScout app for Splunk provides a dashboard of key metrics for endpoints monitored and managed by ForeScout CounterACT, including:

- Patterns of network access over time
- Device types in the network
- Registered corporate users vs. guests
- Endpoint compliance status summaries
- And more

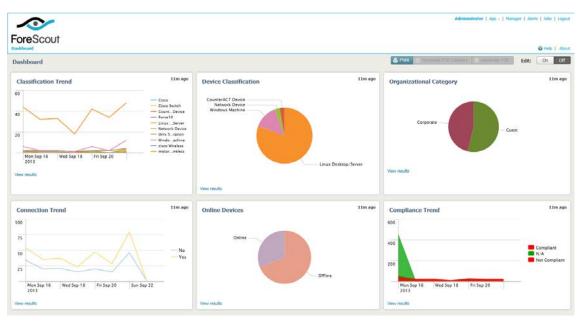
You can determine the network scope CounterACT reports to Splunk, for example:

- Report on all endpoints
- Report for a specific network segment or IP range
- Report by a specific user group or device type

You can control the volume and frequency of CounterACT reports to Splunk, for example:

- Schedule recheck and repeat behaviors for policies and actions that report data to Splunk.
- Use endpoint discovery/admission events to trigger data reporting to Splunk.

By default, the dashboard includes events from the past week. Some panels are based on hourly data. You can use standard Splunk tools to modify this default time frame.



Before You Begin

Perform the following steps to work with the dashboard:

- Verify that you are running CounterACT version 7.0.0 with the most recent Hotfix.
- Verify that the following template policies are active:
 - Classification
 - Corporate/Guest Control
 - Compliance



Host information determined by these policies is reported to Splunk. Similarly, host information determined by other policies categorized as *Classification, Corporate/Guest Control,* or *Compliance* policies is reported to Splunk.

Verify that version 3.0.0 or higher of the Data Exchange Plugin is installed on CounterACT. This plugin provides the DEX Send Web Service Request action, which is the preferred method for CounterACT to send data to Splunk. For information about accessing the plugin, navigate to:

http://updates.forescout.com/support/files/plugins/splunk-app/Updates.pdf

- If the Data Exchange Plugin is not installed, you can use Syslog messaging to submit data to Splunk.
- Download and install the app from the Splunk app store. See Download and Install the ForeScout App for Splunk
- Create a CounterACT policy that sends endpoint information to Splunk. See Create a CounterACT Policy that Sends Data to Splunk.

Download and Install the ForeScout App for Splunk

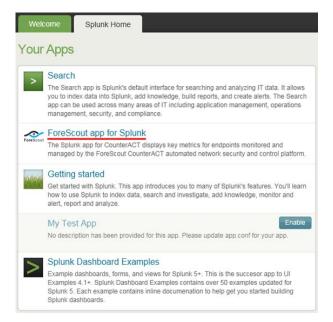
To download and install the app:

1. Download the app from the Splunkbase website at:

http://updates.forescout.com/support/files/plugins/splunk-app/1.0.1/build/5/CounterACT.spl

2. Within your Splunk console window, select Apps>Manage apps>install from file. Browse to the app package you downloaded, and upload the package to your Splunk instance.

The ForeScout app appears in your Splunk console homepage view, and is listed under the Apps menu.



Oreate a CounterACT Policy that Sends Data to Splunk

The ForeScout app for Splunk displays a dashboard of status information for endpoints monitored and managed by CounterACT. To populate this dashboard with data, you create a CounterACT policy that uses the **DEX Send Web Service Request** action to submit host property values to a web service exposed by Splunk. You should use the action schedule option to determine how frequently CounterACT updates Splunk. Tune the frequency based on your network conditions and the volume of data you want to work with in Splunk.

For each endpoint selected by the policy, CounterACT replaces property tags in the request message with actual host property values, and submits the request to the Splunk web service.



The policy described here sends Splunk information for all endpoints and network devices discovered by CounterACT. You can add filtering conditions if you wish – for example, you may want to exclude certain types of network devices. Similarly, you can use standard Scope settings to limit the range of endpoints for which data is reported to Splunk.

To run the template:

1. Select the Policy tab from the Console.



- 2. Select Add. The Policy Wizard opens.
- 3. Select Custom.

olicy Type			
Create a policy using a templ	ate or cri	eate a custom policy.	
Search	٩	Custom	
🗐 Templates		The custom policy wizard allows you to define policies for which no	
🗈 🕌 Classification		template exists.	
- 🏠 Corporate/Guest Cont	trol	When defining a policy, you need to consider the following:	
📴 🛃 Compliance		 What hosts are subject to the policy 	
Threats		 What conditions should be tested against these hosts What actions should be applied if the conditions are met 	
🖙 🚟 802.1x 🖙 🔲 Mobile		As an example, consider a simple policy requiring all corporate Windows	
🖬 📋 Mobile		machines to run an antivirus. In this case, the condition would be	
Anwatch MaaS360			
🖬 📑 Maassoo		OS is Windows AND Machine is Managed AND NOT Antivirus is running	
D- 2 Nessus		i anning	
a 🕜 XenMobile		The actions associated with hosts matching this condition can be "HTTP	
- Track Changes		Notifications" and "Send email to the Help desk".	
PCI Compliance		Sometimes the policy is more complex, and divides the network into	
A Custom		multiple categories, each requiring a different set of actions. You can use a compound policy combining multiple sub-rules to cope with such cases.	

- 4. Select Next. The Name page opens. Define a unique name for the policy you are creating based on this template.
- 5. Select Next. The Scope page opens. Use the IP Address Range dialog box to define which endpoints will be inspected. Data for these endpoints will be reported to Splunk. The following options are available for defining a scope:
 - All IPs: Include all addresses in the Internal Network. The Internal Network was defined when CounterACT was set up.
 - **Segment**: Select a previously defined segment of the network. To specify multiple segments, select **OK** to close the IP Address Range dialog box, and select **Segments** from the Scope page.
 - IP Range: Define a range of IP addresses. These addresses must be within the Internal Network.
 - Do not use the **Unknown IP addresses** option in this policy. Splunk indexes data by IP address. Data reported to Splunk must include an IP address for the endpoint.
 - See Creating Custom Policies in the Console User Manual for additional advanced scope features.
- 6. Select OK. The added range appears in the Scope page.



	Scope		
 Policy Type Name 	Define the range of Hos	ts to be inspected for this policy.	
Scope			
Main Rule	Hosts inspected by the Segment	Ranges	🕈 Add
- Maria	IP Address Range All IPs Segment IP Range		Edit Remove Segments
y	O Unknown IP add	Iresses	Cancel

7. Select Next. The Main Rule page opens.

In the example policy described here, no further conditions are defined – CounterACT reports host information for all endpoints in the policy scope. The main rule contains only an action.

	Main Rule		
Y Policy Type	Define a condition and actions		
Vame			
Scope	The condition defines a set of tests to Actions are applied to hosts matching		
Main Rule	Only hosts matching the main rule cor		pection by sub-rules
Sub-Rules	Condition		
oub reality	A host matches this rule if it meets the	e following condition:	
	All criteria are True 🗸	😑 🌽	
	Criteria		🕈 Add
	No items to d	isplay	∠ Edit
	Actions Actions are applied to hosts matching	the above condition.	
	Enable Action	Details	₽ <u>A</u> dd
	No items to c	isplay	<u> </u>

- 8. Select Add from the Actions section of the Main Rule dialog box. In the Actions tree, open the Audit group. Select the DEX Send Web Service Request action.
- 9. In the Parameters tab, do the following:
 - Specify a Name for the request message
 - In the HTTP Request Method drop-down, select POST.
 - In the URL field, enter the following HTTP message request text:

https://{SplunkIP}:8089/services/receivers/simple?source=CounterACT&sourcetype=web_event

Where

{splunkIP} is the IP address of your Splunk service.

This URL addresses the web service exposed by Splunk to receive web event updates. The term source=CounterACT

Indicates to Splunk that the data is coming from CounterACT, and relevant to the CounterACT app.

In the Request Headers(raw) – enter the following message header:
 Content-Type: Text

- Select the **Use Basic Authentication Header** option. In the **User Name** and **Password** fields, enter authorization credentials for the request message. Use the login credentials for your Splunk account.
- Clear the Upload body as file option.
- In the Request Body (raw) field, enter the body of the request message as follows: ip={ip}, compliance={compliance}, network_function={va_netfunc}, mac={mac}, hostname={hostname}, guest={guest_corporate}, online={online}

O Afaria O O O O O O O O O O O O O O O O O	Search Q	Submit an HTTP request you define to an external API or web service. For
Send Compliant CEF message Send Compliant CEF message Send Not Compliant CEF message Send Not Compliant CEF message Send Message to Systom Send Updates to HP ArcSight Asset Send Updates to Reason	Actions Actions Anivatch Anivatch Audit DEV Send Web Service Request	To include endpoint-specific data, select Add Tags and add Property Tags that resolve to host property values when the message is created. Select the Upload body as file option to upload the contents of the Request Body(raw) field as a text file part.
Image: Send Message to Syslog URL DounterACT&sourcetype=web_event Image: Start Nessus Scan Send Updates to UPAdatar SIEM Senders (raw) Image: Start Nessus Scan Image: Use Basic Authorization Header Image: Start Nessus Scan Image: Use Basic Authorization Header Image: Start Nessus Scan Image: Use Basic Authorization Header Image: Start Nessus Scan Image: Use Basic Authorization Header Image: Start Nessus Scan Image: Use Basic Authorization Header Image: Start Nessus Scan Image: Use Basic Authorization Header Image: Start Nessus Scan Image: Use Basic Authorization Header Image: Start Nessus Scan Image: User Name Image: Nesthict Image: Upload body as file Image: Nesthict Image: User Name (hostname), guest=(guest_corporate), onine=(noiline=(online)) Image: Nesthict Image: User Name Image: Nesthict <	– 🎬 Send Compliant CEF message	
Image: Send Updates to GRadar SIEM Servet Request Headers(raw) Image: Start Nessus Scan Content-Type: Text Image: Start Nessus Scan Image: Start Nessus Scan Image: Nestrict Image: Start Nessus Scan Image: Nestrict Notify Image: Nestrict Request Body(raw) Image: Nestrict Notify Image: Nestrict Notify <td< td=""><td>- 📅 Send Message to Syslog</td><td></td></td<>	- 📅 Send Message to Syslog	
	- ₹ Send Updates to HP ArcSight Asset - ① Send Updates to QRadar SIEM Serv	
Maas3500 User Name Manage Password Noblieiron Password Notify Upload body as file Remediate Request Body(raw) XenMobile Ip=(ip), compliance=(compliance), network_function=(va_netfunc), mac=(mac), hostname.(hostname), guest=(guest_corporate), online=(online)	— 💿 eEye Retina Scan	
Image Password Nobileiron Password Nobileiron Upload body as file Remediate Pastrict Refuest Body(raw) Ip=(p), compliance=(compliance), network_function=(va_netfunc), mac=(mac), hostname=(hostname), guest=(guest_corporate), online=(online)		
Remediate Qrestrict XenMobile XenMobile XenMobile Compliance=(compliance), network_function=(va_netfunc), mac=(mac), hostname=(hostname), guest=(guest_corporate), online=(online)	3- 🔦 MobileIron	
XenMobile ip=(p), compliance=(compliance), network_function=(va_netfunc), mac=(mac, hostname=(hostname), guest=(guest_corporate), online=(online)	Remediate	Upload body as file
Tags : Add Tags		ip=(ip), compliance=(compliance), network_function=(va_netfunc), mac=(mac), hostname=(hostname), guest=(guest_corporate),
	4 <u> </u>	Tags : Add Tags

The following table lists key-value pairs that are included in the body of the message.

Host Property	Exported Data Key	Property Tag
IP Address	IP	{ip}
Compliance	compliance	{compliance}
Corporate/Guest Control	guest	{guest_corporate}
DNS Name	hostname	{hostname}
MAC Address	mac	{mac}
Network_function	function	{va_netfunc}
Host is Online	online	{online}

10.By default, the action runs only the first time that an endpoint matches the policy. To report data to Splunk more frequently, select the Schedule tab. Select the Customize action start time option and select Define. In the Recurrence pattern section, Select Every to repeat the action at regular intervals. To avoid overloading Splunk with irrelevant data, change the time interval to a value greater than the default (1 second). Schedule the action to repeat based on your network conditions and the volume of data you want to work with in Splunk.



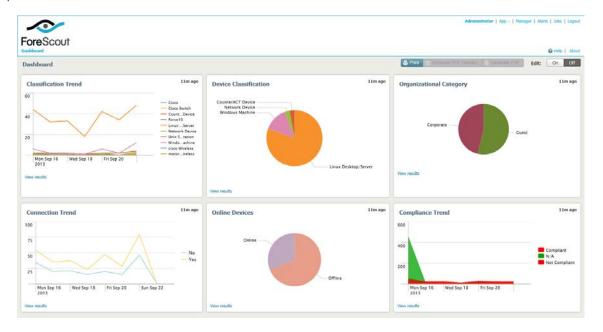
ction	Scheduler
Star	t
۲	Immediately (on policy match)
0	Wait for 1 🗧 🗧 Secon
0	On 9/16/13 v at 2:37 PM v
Rec	urrence pattern
	On action start
•	Every 5 😴 Minutes 🗸
	Scheduled Define
Ran	ge of recurrence
۲	No end date
0	End after 1 🚔 Secon 🗸
0	End after 10 👘 occurrences
0	End on 9/16/13 🗸 at 2:37 PM 🗸
	P Help OK Cancel

11.Select OK. Select Finish to save the policy.12.Select Apply to activate the policy.

Working with the Dashboard

The ForeScout app for Splunk presents a dashboard of six basic status charts based on endpoint properties reported by CounterACT.

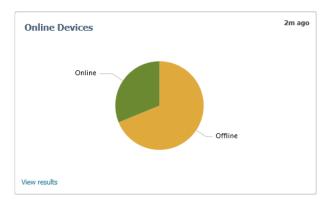
- Online Devices
- Connection Trend
- Device Classification
- Classification Trend
- Organizational Category
- Compliance Trend





Online Devices

This panel shows the relative frequency of online and offline status during the time period of the chart, for all endpoints within the reporting scope. By default, the graph is based on data reported over the past week.



Data is drawn from the following CounterACT host properties:

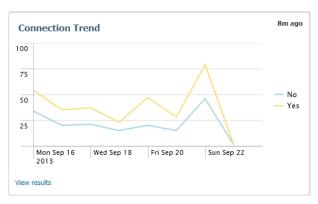
Host Property	Exported Data Key	Property Tag
IP Address	IP	{ip}
Host is Online	online	{online}

Hover over the graph to view details and percentages.

Select **View results** to view the Splunk search used to generate the graph, to modify the time period of the graph, and to view web events reported by CounterACT.

Connection Trend

This panel tracks the online or offline status of endpoints within the reporting scope over time. The graph shows the variation in the total number of endpoints that are online or offline during the specified time period. By default, the graph is based on data reported over the past week.



Data is drawn from the following CounterACT host properties:

Host Property	Exported Data Key	Property Tag
Host is Online	online	{online}

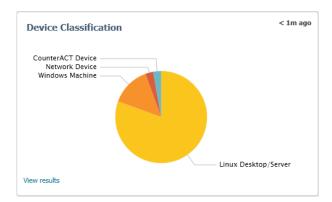
Hover over the graph to view details and percentages.

Select **View results** to view the Splunk search used to generate the graph, to modify the time period of the graph, and to view web events reported by CounterACT.



Device Classification

This panel shows the overall results of endpoint classification policies. The graph shows the relative prevalence of different types of endpoint during the charted period, as a percentage of all endpoints within the reporting scope. By default, the graph is based on data reported over the past week.



Data is drawn from the following CounterACT host properties:

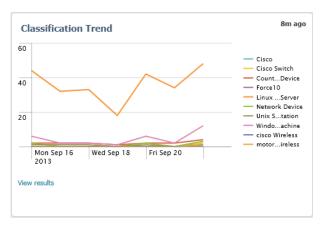
Host Property	Exported Data Key	Property Tag
IP Address	IP	{ip}
Network_function	function	{va_netfunc}

Hover over the graph to view details and percentages.

Select **View results** to view the Splunk search used to generate the graph, to modify the time period of the graph, and to view web events reported by CounterACT.

Classification Trend

This panel tracks the results of endpoint classification policies over time. The graph shows changes in the relative number of different endpoint types in the network over the specified time period. By default, the graph is based on data reported over the past week.



Data is drawn from the following CounterACT host properties:

Host Property	Exported Data Key	Property Tag
IP Address	IP	{ip}
Network_function	function	{va_netfunc}

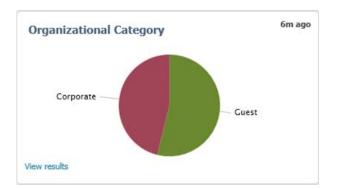
Hover over the graph to view details and percentages.

Select **View results** to view the Splunk search used to generate the graph, to modify the time period of the graph, and to view web events reported by CounterACT.



Organizational Category

This panel displays the results of corporate/guest handling policies. The graph shows the relative prevalence of different user registration results during the charted period, as a percentage of all endpoints within the reporting scope. By default, the graph is based on data reported over the past week.



Data is drawn from the following CounterACT host properties:

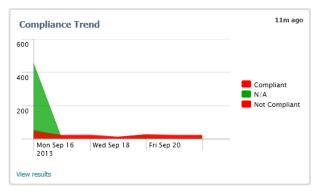
Host Property	Exported Data Key	Property Tag
IP Address	IP	{ip}
Corporate/Guest Control	guest	{guest_corporate}

Hover over the graph to view details and percentages.

Select **View results** to view the Splunk search used to generate the graph, to modify the time period of the graph, and to view web events reported by CounterACT.

Compliance Trend

This panel tracks the results of compliance policies over time. The graph shows the number of endpoints that were compliant and non-compliant over the specified time period. By default, the graph is based on data reported over the past week.



Data is drawn from the following CounterACT host properties:

Host Property	Exported Data Key	Property Tag
IP Address	IP	{ip}
Compliance	compliance	{compliance}

Hover over the graph to view details and percentages.

Select **View results** to view the Splunk search used to generate the graph, to modify the time period of the graph, and to view web events reported by CounterACT.



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(e) Counterparts. This Agreement may be executed in two (2) counterparts, both of which taken together shall constitute one (1) single agreement between the parties. The parties hereto agree that a version of this Agreement transmitted by means of electronic message or electronic record (electronic mail, electronic data interchange, or facsimile), once duly signed by the authorized representatives of each party, shall constitute a binding agreement and shall have the same force and effect as a document bearing original signatures.

8. CONTACT INFORMATION

If you have any questions about this Beta Test Agreement, or if you want to contact ForeScout for any reason, please direct all correspondence to: ForeScout Technologies, Inc., 900 E. Hamilton Avenue, Suite 300, Campbell, CA 95008, United States of America.

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