

Monitoring Cisco Meraki (API)

Beta Version

Cisco: Meraki [API] PowerPack version 100

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Chapter

Introduction

Overview

This manual describes how to monitor Cisco Meraki access points, switches, phones, and cameras in the ScienceLogic platform using the Cisco: Meraki [API] PowerPack and the Meraki API.

The following sections provide an overview of Cisco Meraki and the Cisco: Meraki [API] PowerPack:

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What is Cisco Meraki?

Cisco Meraki provides a set of networking devices and appliances that you can manage from the cloud. Cisco Meraki's centralized cloud architecture enables you to securely monitor users, applications, and devices in your environment.

What Does the Cisco: Meraki [API] PowerPack Monitor?

To monitor Cisco Meraki devices using the ScienceLogic platform and the Meraki API, you must install the Cisco: Meraki [API] PowerPack. This PowerPack enables you to discover and collect data about Cisco Meraki appliances.

The Cisco: Meraki [API] PowerPack includes:

- Dynamic Applications to discover, model, and monitor performance metrics and collect configuration data for Cisco Meraki devices
- Device Classes for each of the Cisco Meraki devices that the ScienceLogic platform monitors
- Event Policies and corresponding alerts that are triggered when Cisco Meraki devices meet certain status criteria
- An example credential that you can use as a template to create a Basic/Snippet credential for connecting to the Cisco Meraki API
- Run Book Action and Automation policies that gather the SNMP credential information needed for discovery and create a Meraki Cloud Controller virtual device during discovery

Installing the Cisco: Meraki [API] PowerPack

Before completing the steps in this manual, you must import and install the latest version of the Cisco: Meraki [API] PowerPack.

To download and install a PowerPack:

TIP: By default, installing a new version of a PowerPack overwrites all content in that PowerPack that has already been installed on the target system. You can use the *Enable Selective PowerPack Field Protection* setting in the **Behavior Settings** page (System > Settings > Behavior) to prevent new PowerPacks from overwriting local changes for some commonly customized fields. (For more information, see the *System Administration* manual.)

- 1. Download the PowerPack from the ScienceLogic Customer Portal.
- 2. Go to the **PowerPack Manager** page (System > Manage > PowerPacks).
- 3. In the PowerPack Manager page, click the [Actions] button, then select Import PowerPack.
- 4. The Import PowerPack dialog box appears:

Import	t PowerPack™	×
L	Browse for file Browse Icense: Import	

- 5. Click the [Browse] button and navigate to the PowerPack file.
- 6. When the **PowerPack Installer** modal page appears, click the **[Install]** button to install the PowerPack.

NOTE: If you exit the **PowerPack Installer** modal page without installing the imported PowerPack, the imported PowerPack will not appear in the **PowerPack Manager** page. However, the imported PowerPack will appear in the **Imported PowerPacks** modal page. This page appears when you click the **[Actions]** menu and select *Install PowerPack*.

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Configuring Cisco Meraki for Monitoring

Overview

The following sections describe how to configure and discover Cisco Meraki devices for monitoring by the ScienceLogic platform using the Cisco: Meraki [API] PowerPack and the Meraki API:

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Generating a Cisco Meraki API Key

To configure Cisco Meraki for monitoring using the Meraki API, you must first generate an API key for a read-only Meraki user. You will then enter this user's API key in the *Basic/Snippet credential* you create in the ScienceLogic platform to monitor Meraki.

NOTE: If the read-only user has access to multiple organizations, then the ScienceLogic platform can discover all of those organizations with a single discovery session. In this scenario, each organization is created as a separate Cloud Controller in the platform.

However, if you want each Meraki organization to have its own corresponding ScienceLogic organization in the platform, ScienceLogic recommends creating a unique read-only user account and API key for each organization in Meraki. You can then create separate credentials in the platform for each Meraki organization using those unique API keys, and then use those credentials to run separate discovery sessions for each organization.

To create a read-only user:

- 1. Log in to the Cisco Meraki web interface.
- 2. Go to Organization > Administrators, and then click the [Add admin] button.
- 3. On the Create administrator page, complete the following fields:

Create administrator		×
Name:		
Email:		
Organization access: Read-only v		
Target	Access	
+ Add access privileges		
privacy		Close Create admin

- Name. Type the user's name.
- Email. Type the user's email address.
- Organization access. Select Read-only.
- 4. Click **[Create admin]**. Cisco Meraki sends an email to the email address provided, describing how the user can complete the registration process. The user must complete those steps before generating the API key.

To generate a Cisco Meraki API key for that read-only user:

1. Log in to the Cisco Meraki web interface as the read-only user.

2. Go to Organization > Settings:

	SNMP		
disco Meraki	Version 2C	SIMP V2C disabled 🗸	
	Version 3	SNMP V3 disabled 🗸	
NETWORK			
Live Demo - Branch	IP restrictions	Enter IP addresses separated by whitespace, commas, or semicolons. Leave blank to allow SNMP queries from all IP addresses.	
Firewall			
Network-wide			
o			
Security appliance	Dashboard API acces	S	
Organization	API Access 🚯	☑ Enable access to the Cisco Meraki Dashboard API	
		After enabling the API here, go to your profile to generate an API key. The API will return 404 for requests with a missing or incorrect API key.	
	Delete this conscient.		
	Delete this organization		
	You can delete this organization	only if it has no networks, users, licenses, or devices claimed in its inventory.	
	Delete organization		
		Save Changes r <u>cancel</u> .	
		(Please allow 1-2 minutes for changes to take effect.)	
	<	>	
	© 2017 Cisco Systems, Inc.	Last login: 10 minutes ago from your current IP address Make a wish	
	privacy - terms	Last login: <u>10 minutes ago</u> from your current IP address Current session started: <u>10 minutes ago</u> Make a wish	
			~

- 3. In the Dashboard API access section, select the Enable access to the Cisco Meraki Dashboard API checkbox.
- 4. Click the Save Changes button.
- 5. Click the **profile** link in the **Dashboard API access** section.
- 6. In your user profile, navigate to the API access section and click the Generate new API key button.

	Your account	
	View your account settings.	
cisco Meraki	Change your password	0
	Current password	
NETWORK	New password	
Live Demo - Branch Firewall	Confirm password	
		Change password
Network-wide	Two-factor authenticati	on
Security appliance	SMS authentication is OFF.	Set up SMS authentication
		You can also set up offline access on a mobile device: <u>Android, iPhone</u> , or <u>BlackBerry</u> .
Organization		Too can also out up oining access on a mount acritic. <u>Perioda</u> , in <u>Tenne</u> , or <u>Discribenty</u> .
	API access	
	API keys	
		Generate new API key
	Color blind assist mode	(OFF)
	Enables an alternative color palette for various Dashboard elements	Enable Red/Green assist mode
		cted by color blind assist mode:
	Device status icons:	Active: 🛃 Alerting: 🛃 Unreachable: 🛃 Dormant: 📓
	Map pins:	🛡 Gateway 🔍 Repeater 🔍 Alerting 🛛 🎈 🔍 Offline
	Connectivity:	
	Connectivity icons:	ଙ୍ ନ
	Labels:	Success Alert

7. In the API access section, the API key appears. Copy and save the key value.

NOTE: API keys are visible only to the user that created them.

Creating a Basic/Snippet Credential

To configure the ScienceLogic platform to monitor Cisco Meraki systems using the Meraki API, you must create a Basic/Snippet credential. This credential allows the Dynamic Applications in the Cisco: Meraki [API] PowerPack to connect with the Cisco Meraki API. An example Basic/Snippet credential that you can edit for your own use is included in the PowerPack.

To create a Basic/Snippet credential:

- 1. Go to the Credential Management page (System > Manage > Credentials).
- 2. Locate the Cisco: Meraki API credential, and then click its wrench icon (*P*). The Edit Basic/Snippet Credential modal page appears:

Credential Editor [72]				×
Edit Basic/Snippet Credential #72			New	Reset
Basic Settings				
	Credential Name			
Cisco: Meraki - API				
Hostname/IP	Port		Timeout(ms)	
%D	443	5000		
	name		Password	
X-Cisco-Meraki-API-Key		[••••••	
	Save Save As			

- 3. Complete the following fields:
 - Credential Name. Type a new name for the credential.
 - Hostname/IP. Keep the default value.
 - Port. Keep the default value.
 - Timeout(ms). Keep the default value.
 - Username. Keep the default value.
 - Password. Type the Meraki API key.
- 4. Click the [Save As] button.
- 5. When the confirmation message appears, click [OK].

Creating an SNMP V3 Credential

The Dynamic Applications in the Cisco: Meraki [API] PowerPack use SNMP to collect some data about Meraki component devices that is not available through the Meraki API. If your Meraki devices are configured for SNMP V3, then you must create an SNMP V3 credential that enables the PowerPack to connect with the devices through a series of Run Book Actions and Automations.

NOTE: If your Meraki system is configured for SNMP V2, you do not need to create an SNMP credential in the ScienceLogic platform.

To create an SNMP V3 credential:

- 1. Go to the **Credential Management** page (System > Manage > Credentials).
- 2. Click the **[Actions]** button, and then select Create SNMP Credential. The **Create New SNMP Credential** modal page appears:

Credential Editor		×
Create New SNMP Credential		Reset
Basic Settings Profil Cisco SNMPv3 Local Meraki Port 16100	e Name Timeout(ms)	SNMP Version [SNMP V3] ▼ Retries 3
SNMP V1/V2 Settings SNMP Community (Read-	Only) S	NMP Community (Read/Write)
SNMP V3 Settings Security Name	Securit	y Passphrase
Authentication Protocol	Security Level	SNMP v3 Engine ID
Context Name	Privacy Protocol	Privacy Protocol Pass Phrase
	Save	

- 3. Complete the following fields:
 - Profile Name. Type a name for the credential.
 - SNMP Version. Select SNMP V3.
 - Port. Type "16100" for the port the platform will use to communicate with the device.
 - *Timeout*. Type the amount of time, in milliseconds, after which the platform will stop trying to communicate with the device.
 - Retries. Type the number of times the platform will try to authenticate and communicate with the device.
 - Security Name. Type the Meraki device's SNMP V3 username.

- Security Passphrase. Type the Meraki device's SNMP V3 password.
- Authentication Protocol. Select SHA.
- Security Level. Select Authentication and Encryption.
- SNMP v3 Engine ID. Leave this field blank.
- Context Name. Leave this field blank.
- Privacy Protocol. Select AES.
- Privacy Protocol Pass Phrase. Type the Meraki device's AES privacy key.
- 4. Click [Save].

Disabling Asynchronous Dynamic Application Collection

If the Meraki system you want to monitor consists of more than 200 devices, you must disable the "Data Collection: Async Dynamic App Collection" process before discovering your Meraki system.

NOTE: Disabling asynchronous Dynamic Application collection increases the amount of time it takes the ScienceLogic platform to discover all of the component devices in your Meraki system.

To disable asynchronous Dynamic Application collection:

- 1. Go to the **Process Manager** page (System > Settings > Processes).
- Use the Process Name filter field to search for the "Data Collection: Async Dynamic App Collection" process, and then click its wrench icon (
 The Process Editor page appears.

Process Editor Editing Process [12	9]	Reset Guide					
Process Name Data Collection: Async Dynamic App Collection Program File async_dynamic_collect py Operating State Disabled Debug Mode [Disabled] Debug Mode	Frequency [Asynchronous] Async Throttle [2] Time Factor (Mins.) [15]	Appliance Types <table-cell> All-In-One Server [1] 🖉 Database [2] Administration Portal [3] Customer Portal [4] Data Collection Unit [5] 🖉 Message Collection Unit [6] Integration Server [7]</table-cell>					
Save							

- 3. In the **Operating State** field, select Disabled.
- 4. Click [Save].

Re-enabling Asynchronous Dynamic Application Collection

If you no longer want to monitor Meraki devices in the ScienceLogic platform and you want to return the system to its original state with asynchronous Dynamic Application collection re-enabled, you must first delete all Meraki devices from the platform. You must then clear the Database Server or Data Collector of any asynchronous processes that are already queued. Failing to do these steps can result in the platform ceasing all data collection until those asynchronous processes are executed.

To re-enable asynchronous Dynamic Application collection:

- 1. Navigate to the Database Server by typing "<IP address>:8008" into your browser address bar.
- 2. Log in to the Database Server. The phpMyAdmin browser appears.
- 3. Select the database from the drop-down **Database** field, and then select the **master_logs** database.
- 4. In the **master_logs** database, select the **spool_process** table on the left menu, and then click the **[SQL]** tab.
- 5. Run the following query to clear out the processes on the database:

DELETE FROM 'spool_process' WHERE 'proc' = 129 AND 'state' != 0;

6. Click **[OK]** at the prompt. Many rows should have been deleted from the table.

If you are using a distributed ScienceLogic system, continue with step 7. Otherwise, go to step 14.

7. In the left menu of the phpMyAdmin browser, select the Data Collector appliance where Meraki devices were discovered.

If the IP address of the Data Collector appears in the upper left-hand corner of the phpMyAdmin browser, go to step 12. Otherwise, if you receive a MySQL error message that your access is denied, continue with step 8.

- 8. In the Database Server, navigate to the **Master** database and then select the **system_settings_licenses** table.
- 9. Click [Browse] in the upper left-hand side of the page and then identify the Data Collector appliance.
- 10. Click the **edit** button for the Data Collector:

Ì	\mathbf{X}	3	5	SL_ISO1_CU	collector	8.5.0	2119	80500002119
					unit:			
					10.2.8.72			

- 11. Locate the **db_user** and **db_pass** fields. In those fields, type the same credentials as the Database Server.
- 12. Click **[Go]**. Wait a few seconds before trying to access the Data Collector in the phpMyAdmin browser. When you do so, the IP address of the Data Collector should appear in the upper left-hand corner of the phpMyAdmin browser.
- 13. Repeat steps 3-6 on the Data Collector. If successful, many rows should have been deleted from the **spool_ process** table.
- 14. In the ScienceLogic platform, go to the **Process Manager** page (System > Settings > Processes).

- 15. Use the **Process Name** filter field to search for the "Data Collection: Async Dynamic App Collection" process, and then click its wrench icon (
- 16. In the **Operating State** field, select *Enabled*, and then click **[Save]**.

Discovering Cisco Meraki Component Devices

To model and monitor your Cisco Meraki devices, you must run a discovery session to discover your Meraki environment.

When the discovery session first completes, the Meraki system is initially discovered as a pingable physical device. The Run Book Action and Automation policies in the *Cisco: Meraki [API]* PowerPack then create a Meraki Cloud Controller virtual device that acts as the root device for your Meraki system. The Dynamic Applications included in the PowerPack then automatically align to the Cloud Controller virtual device to discover, model, and monitor the remaining Meraki devices.

To discover the Meraki devices that you want to monitor:

- 1. Go to the **Discovery Control Panel** page (System > Manage > Discovery).
- 2. Click the [Create] button. The Discovery Session Editor page appears.
- 3. On the **Discovery Session Editor** page, define values in the following fields:

Discovery Session Editor Editing Session [1]	New Reset
Identification Information		
Name Meraki local 😯 Descrip	ption	÷ 😯
IP and Credentials IP Address/Hostname Discovery List snmp meraki.com Upload File Browse for file	Detection and Scanning Initial Scan Level [System Default (recommended)] Image: Common Scanner	Basic Settings Discover Non-SNNP ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ Devices DHCP ♥ ♥ Device Model Cache TTL (h) 2
SNMP Credentials	Port Scan Timeout [[System Default (recommended)]	Collection Server PID: 3
SNMP Cisco SNMPv2 - Example Cisco SNMPv3 Local Meraki EM7 Default V2 EM7 Default V3 IPSLA Example	Detection Method & Port	Organization [[System] Add Devices to Device Group(s) None
LifeSize: Endpoint SNMP SNMP Public V1 SNMP Public V2 Other Credentials	TCP: 3 - compressnet TCP: 5 - rje TCP: 7 - echo TCP: 9 - discard TCP: 11 - systat TCP: 13 - daytime	Servers
Basic/Snippet Cisco UCM Example Cisco VOS CUC Cluster Status Cisco VOS IM&P Cluster Status Cisco: ACI Sample Credential 1 Cisco: ACI Sample Credential 2	TCP: 15 - netstat TCP: 17 - qotd ▼ Interface Inventory Timeout (ms) 600000 Ø Maximum Allowed Interfaces	
Cisco: Meraki - API [Cisco: Meraki - API local] Citrix XenServer - Example	10000 G Bypass Interface Inventory	Apply Device Template [[Choose a Template]
	Save Save As	Log All

• Name. Type a name for the discovery session.

- IP Address/Hostname Discovery List. Type the IP address or hostname for the Cisco Meraki Meraki system that you want to monitor.
- Other Credentials. Select the Basic/Snippet credential you created for Meraki.
- Discover Non-SNMP. Select this checkbox.
- *Model Devices*. Select this checkbox.

NOTE: Do not select a credential in the **SNMP Credentials** field, even if you created an SNMP V3 credential for your Meraki devices. The Run Book Action and Automation policies included in the *Cisco: Meraki* [API] PowerPack automatically gather and use the necessary SNMP credential information during discovery.

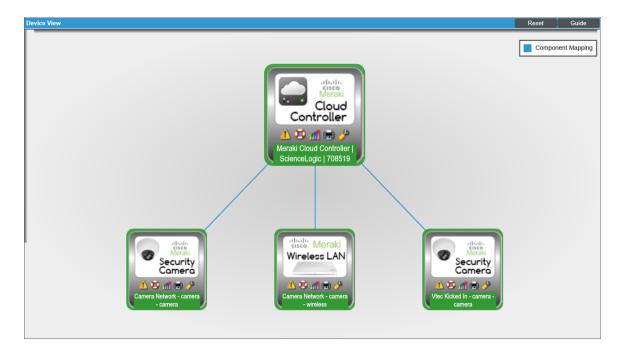
- 4. Optionally, you can enter values in the other fields on this page. For more information about the other fields on this page, see the **Discovery & Credentials** manual.
- 5. Click [Save], and then close the Discovery Session Editor window.
- 6. The discovery session you created appears at the top of the **Discovery Control Panel** page. Click its lightning-bolt icon (*I*) to run the discovery session.
- 7. After the virtual device is created and the Cisco Meraki devices are discovered, click the device icon () to view the **Device Properties** page for each device.
- 8. Repeat steps 2-7 for every set of Cisco Meraki devices you want to monitor, using a different credential for each set of devices.

NOTE: ScienceLogic recommends that you delete the physical pingable Meraki device after the platform creates the Cloud Controller virtual device that serves as the Meraki system root device.

Viewing Cisco Meraki Component Devices

In addition to the **Device Manager** page (Registry > Devices > Device Manager), you can view the Cisco Meraki devices in the following places in the user interface:

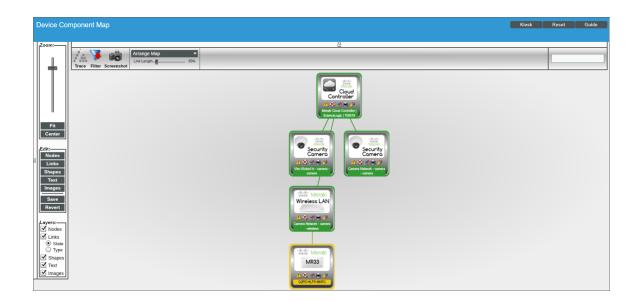
• The **Device View** modal page (click the bar-graph icon [**1**] for a device, then click the **Topology** tab) displays a map of a particular device and all of the devices with which it has parent-child relationships. Double-clicking any of the devices listed reloads the page to make the selected device the primary device:



 The Device Components page (Registry > Devices > Device Components) displays a list of all root devices and component devices discovered by the ScienceLogic platform in an indented view, so you can easily view the hierarchy and relationships between child devices, parent devices, and root devices. To view the component devices associated with Cisco Meraki, find the Cisco Meraki root device and click its plus icon (+):

	Device Name •	IP Address	Device Category	Device Class Sub-class		Organization	Current State >=Health ▼	Collection Group	Collection State	
e al	Meraki Cloud Controller ScienceLogic	-	Virtual	Cisco Systems Meraki Cloud Controller	2021	System	🛕 Healthy	CUG1	Active	🖶 🔀 🗞 😹
	Device Name •	IP Address	Device Category	Device Class Sub-class	DID	Organization	Current State ≻=Health ▼	Collection Group	Collection State	
1.	n Camera Network - camera - camera		Network	Cisco Systems Meraki Camera Network	2024	System	A Healthy	CUG1	Active	10 1 5 10 <u>2</u> 5
2. –	🔑 📶 Camera Network - camera - wireless	v	Network	Cisco Systems Meraki Wireless Networ	k 2025	System	🛕 Healthy	CUG1	Active	10 1 0 n 20
	Device Name •	IP Address	Devic Catego	9 ny <u>Device Class Sub-class</u>		Organization	Current State >=Health ▼	Collection Group	Collection State)
1	€ MQ2PD-HLF5-MKRC	۰. ۳	Access P	oint Cisco Systems Meraki MR33	2026	System	🚹 Minor	CUG1	Active	10 🔁 🗞 😹
3.	🎤 🞢 Vtec Kicked In - camera - camera		Network	Cisco Systems Meraki Camera Network	2023	System	🛦 Healthy	CUG1	Active	11 N 😹 📾
3.	الله عنه المراجع		Network	Cisco Systems Meraki Camera Network	2023	System	A Healthy	CUG1	Active	

The Component Map page (Views > Device Maps > Components) allows you to view devices by root
node and view the relationships between root nodes, parent components, and child components in a map.
This makes it easy to visualize and manage root nodes and their components. The ScienceLogic platform
automatically updates the Component Map as new component devices are discovered. The platform also
updates each map with the latest status and event information. To view the map for Cisco Meraki devices, go
to the Component Map page and select the map from the list in the left NavBar. To learn more about the
Component Map page, see the Views manual.



Creating Events from Cisco Meraki Emails

The Cisco: Meraki [API] PowerPack includes Event Policies that can generate events in the ScienceLogic platform based on emails that Cisco Meraki sends to the platform.

CAUTION: The email Event Policies included in the Cisco: Meraki [API] PowerPack each have an expiry delay setting that specifies the amount of time after which an active event is automatically cleared from the ScienceLogic platform if the event has not reoccurred. However, the platform clearing an event for reaching its expiry delay setting does not mean that the initial condition that caused the event has been resolved.

For the ScienceLogic platform to process events from inbound emails, you must configure your Meraki devices to send email to the platform using certain formatting rules.

You must then enable the platform to generate events from those inbound Meraki emails.

Formatting Inbound Emails

Inbound emails must meet the following requirements to be processed as events by the platform:

• The email must be sent to the following address:

notify@domain-name-of-ScieceLogic-platform

Where "domain-name-of-ScienceLogic-platform" is one of the fully qualified domain names of the Database Server or All-In-One Appliance that is entered in the **Authorized Email Domains** field in the **Email Settings** (System > Settings > Email) page.

- The "from" address used by the external device must be "alerts-noreply@meraki.com", or otherwise match an address defined in the **Originator Address** field in an email redirection policy on the **Emailer Redirection** page (Registry > Events > Inbound Email).
- The email subject line must begin with "Alert for" and end with the IP address, hostname, or device ID of a device monitored by the ScienceLogic system. The inbound email will not trigger an event if anything is included after the IP address, hostname, or device ID.

NOTE: There must be a space between the regex pattern and the IP address, hostname, or device ID.

NOTE: You can specify how an Event from Email policy will match a regular expression to a device name in the **Behavior Settings** page (System > Settings > Behavior). For more information, see the **Configuring Inbound Email** manual.

Enabling Inbound Email Alerts

After you have ensured that inbound Meraki emails are formatted correctly, you must enable the platform to generate events from the inbound Meraki emails.

To do so:

- 1. Go to the **Emailer Redirection** page (Registry > Events > Inbound Email), and then click the **[Create]** button. The **Add Policy** modal page appears.
- 2. Complete the following fields:

Add Policy Create New	New	Reset
Originator Address		
alerts-noreply@meraki.com		
Alignment Type		
[If device not found, discard unmatched email]		▼]
Regex Pattern		
Alert for		
Regex Type		
[Subject]		▼]
Save		

- Originator Address. Type "alerts-noreply@meraki.com".
- Alignment Type. Select If device not found, discard unmatched email.
- Regex Pattern. Type "Alert for".
- Regex Type. Select Subject.
- 3. Click [Save].

NOTE: For more information about generating events from inbound emails, see the **Configuring Inbound Email** manual.

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