

# Integrate Meraki Firewall

EventTracker v8.x and above

## Abstract

This guide provides instructions to configure a Meraki Firewall to report its logs to EventTracker Enterprise.

## Scope

The configurations detailed in this guide are consistent with **EventTracker Enterprise** version 8.X and later, and **Meraki security appliance MX series**.

## Audience

Administrators, who wish to monitor Meraki Firewall using EventTracker Enterprise.

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## Overview

Meraki Firewalls are cloud-managed network security appliances designed to make distributed networks fast, secure, manageable by employing stateful inspection and auto-configuring VPN options.

EventTracker amasses and examines logs generated by Meraki Firewall to help an administration to monitor ids, alerts, VPN sessions, web traffic etc.

## Prerequisites

- Administrative access to Meraki Dashboard.

## Configure Meraki Firewall to forward logs to EventTracker

To configure the Meraki Firewall to forward logs to a syslog server

In your Meraki Dashboard:

1. Go to **Network-wide**.
2. On **Configure** tab, click on **General**.

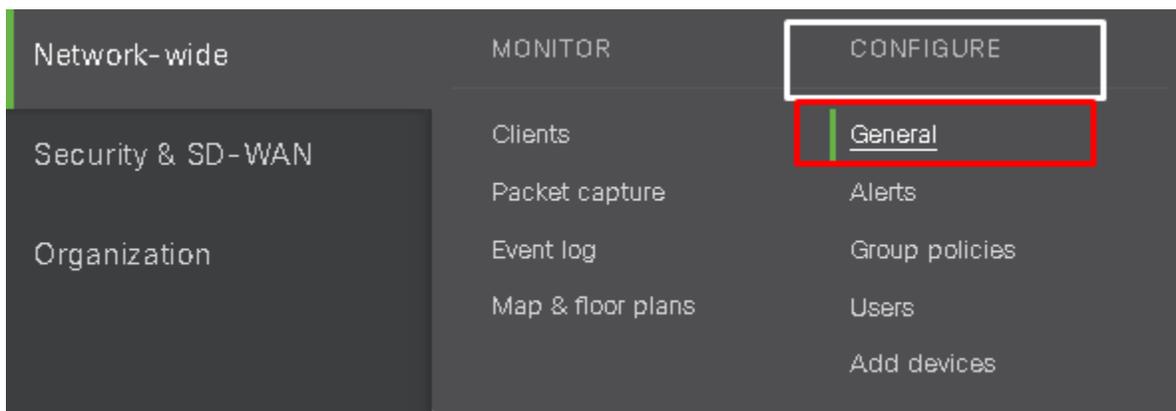


Figure 1

3. At the **General** page, scroll down to the Logging section.

Logging

Syslog servers

Server IP	Port	Roles	Actions
logger2.etagent.com	514	Flows x Appliance event log x	X
		Flows	
		URLs	
		Appliance event log	

[Add a syslog server](#)

Figure 2

- Click the [Add a syslog server](#) link to define a new server.
- Click on the **Add a syslog server** link and type the IP address or name of **EventTracker Manager** in **Server IP** field.
- Type **Eventtracker Manager Port** in the **Port** field.
- Choose **Appliance event Log, Security events, IDS Alerts, Flows and URLs**; in **Roles** field. Mentioned log types are detailed below:

Reporting

Syslog servers

Server IP	Port	Roles	Actions
logger2.etagent.com	514	Flows x URLs x Security events x Appliance event log x	X

Figure 3

- Click **Save Changes** at the bottom of the page.

**Save Changes** or [cancel](#)

(Please allow 1-2 minutes for changes to take effect.)

Figure 4

Integrated device can be verified in the Systems pane of EventTracker advanced log search.

## EventTracker Knowledge Pack

Once logs are received into EventTracker Categories, Alerts, Reports and Dashboards can be configured into EventTracker. The following Knowledge Packs are available in EventTracker to support Meraki Firewall monitoring.

### Flex Reports

- **Meraki Firewall- Blocked web content details:** This report provides information related to web content blocked by content filter.

#### Report Sample:

LogTime	Device Name	Server Address	Server Port	Blocked Category	Blocked URL
03/30/2016 07:53:40 PM	MX64	174.76.226.93	80	User-defined Blacklist	http://img2.imagesbn.com/p/2940043877833_p0_v2_s600_e404.png;
03/30/2016 07:53:49 PM	MX64	184.105.82.3	443	User-defined Blacklist	https://*.cloudmosa.com/...
03/30/2016 07:54:01 PM	MX64	67.215.65.130	80	Proxy Avoidance and Anonymizers	http://q99.info/wp-content/uploads/2013/12/posted-the-wizard-saturday-july-48090.jpg;
04/01/2016 04:54:48 PM	MX64	52.86.88.235	443	Dating	https://api.gotinder.com/...
04/04/2016 10:30:07 AM	MX64	174.76.226.93	80	User-defined Blacklist	http://img2.imagesbn.com/p/2940043877833_p0_v2_s600_e404.png;

Figure 5

#### Sample Log:

```

- Mar 05 01:14:43 PM <134>1 1392859398.201435382 Meraki_Security_Appliance events content_filtering_block url="https://*.contosoerver.com/..." category0="User-defined Blacklist" server="100.17.82.3:443"

event_computer      +- meraki2019
event_description   <134>1 1392859398.201435382 Meraki_Security_Appliance events content_filtering_block url="https://*.contosoerver.com/..." category0="User-defined Blacklist" servers="100.17.82.3:443"
event_id           +- 3399
event_log_type      +- Application
event_source        +- syslog
event_type          +- Information
event_user_domain   +- N/A
event_user_name     +- N/A
log_source          +- Meraki Firewall Content Filter
rule_name           +- User-defined Blacklist
src_device_name     +- Meraki_Security_Appliance
src_ip_address      +- 100.17.82.3
src_port_no         +- 443
url_name            +- https://*.contosoerver.com/...
tags                +- Meraki Firewall
tags                +- Content Filter

```

Figure 6

- **Meraki Firewall- VPN session details:** This report provides information related to VPN sessions establishment, connection or disconnection.

Report Sample:

LogTime	Device Name	VPN Type	VPN Status	User Name	Source IP	Source Port	Destination IP	Destination Port
03/30/2016 07:10:26 PM	MX60	Site-to-site VPN	established		24.249.102.115	4500	70.168.64.32	4500
03/30/2016 07:10:36 PM	MX60	client_vpn	vpn_connect	astaubin	70.168.64.32		192.168.251.122	
03/30/2016 07:10:45 PM	MX60	client_vpn	vpn_disconnect	astaubin	70.168.64.32		192.168.251.122	

Figure 7

Sample Log:

```

- Mar 05 01:14:43 PM <134>1 1392808395.669667263 Meraki_Security_Appliance events Site-to-site VPN: IPsec-SA established: ESP/Transport 24.249.102.115[4500]->70.168.64.32[4500]

dest_ip_address +- 70.168.64.32
dest_port_no +- 4500
event_computer +- meraki2019
event_description <134>1 1392808395.669667263 Meraki_Security_Appliance events Site-to-site VPN: IPsec-SA established: ESP/Transport 24.249.102.115[4500]->70.168.64.32[4500]
event_id +- 3399
event_log_type +- Application
event_source +- syslog
event_type +- Information
event_user_domain +- N/A
event_user_name +- N/A
log_action +- established
log_source +- Meraki Firewall VPN
object_type +- Site-to-site VPN
src_device_name +- Meraki_Security_Appliance
src_ip_address +- 24.249.102.115
src_port_no +- 4500
tags +- Meraki Firewall
tags +- VPN Activities
    
```

Figure 8

- **Meraki Firewall- User authentication details:** This report provides information related to local user authentication attempt.

Report Sample:

LogTime	Device Name	Host MAC	User Name	User Details	Group Details
03/30/2016 03:36:30 PM	MX64	00:1E:0B:3E:42:DD	TTobey	CN=Tami Tobey,OU=Teachers,OU=Users - Domain,DC=eagles,DC=ocacademy,DC=org	CN=Teachers,OU=Teachers,OU=Users - Domain,DC=eagles,DC=ocacademy,DC=org
03/30/2016 03:36:43 PM	MX64	90:B1:1C:79:1C:50	JWolfe	CN=Janet Wolfe,OU=Administration,OU=Users - Domain,DC=eagles,DC=ocacademy,DC=org	CN=Administration,OU=Administration,OU=Users - Domain,DC=eagles,DC=ocacademy,DC=org
03/30/2016 03:36:54 PM	MX64	00:0B:DB:73:F1:78	student	CN=Student Guest,OU=Students,OU=Users - Domain,DC=eagles,DC=ocacademy,DC=org	CN=Students,OU=Students,OU=Users - Domain,DC=eagles,DC=ocacademy,DC=org

Figure 9

### Sample Log:

```

- Mar 05 01:24:49 PM <134>1 1392792900.051011956 Meraki_Security_Appliance events authentication on 00:1E:0B:3E:42:DD for user Tmark as CN=ted mark,OU=lab,OU=Users - Domain,DC=contoso,DC=domain,DC=org with policy for grou...
event_computer +- meraki2019
event_description <134>1 1392792900.051011956 Meraki_Security_Appliance events authentication on 00:1E:0B:3E:42:DD for user Tmark as CN=ted mark,OU=lab,OU=Users - Domain,DC=contoso,DC=domain,DC=org with policy for group CN=lab,OU=lab,OU=Users - Domain,DC=contoso,DC=domain,DC=org
event_id +- 3399
event_log_type +- Application
event_source +- syslog
event_type +- Information
event_user_domain +- N/A
event_user_name +- N/A
log_source +- Meraki Firewall Authentication Details
src_device_name +- Meraki_Security_Appliance
src_mac_address +- 00:1E:0B:3E:42:DD
src_user_info +- CN=ted mark,OU=lab,OU=Users - Domain,DC=contoso,DC=domain,DC=org
src_user_name +- Tmark
tags +- Meraki Firewall
tags +- Authentication Activities
    
```

Figure 10

- **Meraki Firewall- DHCP IP lease details:** This report provides information related to IPs leased by DHCP.

### Report Sample:

LogTime	Device Name	Server MAC	Client MAC	Leased IP	Allocated DNS	Router IP
03/31/2016 06:03:47 PM	MX60	00:18:0A:02:85:88	00:18:0A:76:F9:79	172.16.37.220	172.16.1.200, 172.16.1.1	172.16.1.2
03/31/2016 06:08:20 PM	MX60	00:18:0A:02:85:88	00:18:08:06:9F:88	172.16.37.210	172.16.1.200, 172.16.1.1	172.16.1.2

Figure 11

- **Meraki Firewall- IDS alert details:** This report provides information related to threats detected by IDS.

### Report Sample:

LogTime	Device Name	Source MAC	Source IP	Source Port	Destination MAC	Destination IP	Destination Port	Protocol Type	Alert Priority	Alert Direction	Alert Details
03/29/2016 05:45:12 PM	MX60	03:99:9D:3B:F7:C5	192.168.251.122	61724		172.16.1.90	22	tcp/Ip	2	egress	(spp_ssh) Protocol mismatch
03/29/2016 05:45:23 PM	MX60		70.168.64.32	64697	00:1B:21:A2:73:C9	172.16.1.70	6690	tcp/Ip	3	ingress	Data sent on stream not accepting data
03/29/2016 05:45:34 PM	MX60		24.249.102.115	46865		6.0.0.2	3128	tcp/Ip	2		(http_inspect) NON-RFC DEFINED CHAR
03/29/2016 05:45:43 PM	MX60		72.246.55.50	80	04:15:52:5B:60:CC	172.16.25.241	50449	tcp/Ip	2	ingress	Bad segment, adjusted size <= 0
03/29/2016 05:45:53 PM	MX60	20:C9:D0:BC:66:A3							3	egress	(spp_frag3) Fragmentation overlap

Figure 12

Sample Log:

```

Mar 05 01:24:49 PM 1490031971.951780201 ANB_MX80 security_event ids_alerted signature=1:39867:3 priority=3 timestamp=1490031971.693691 shost=00:15:5D:1E:08:04 direction=egress protocol=udp/ip src=192.168.30.10:49243 dst=210.15...

dest_ip_address +- 210.15.216.153
event_computer +- meraki2019
event_description 1490031971.951780201 ANB_MX80 security_event ids_alerted signature=1:39867:3 priority=3 timestamp=1490031971.693691 shost=00:15:5D:1E:08:04 direction=egress protocol=udp/ip src=192.168.30.10:49243 dst=210.15...
216.153 message: INDICATOR-COMPROMISE Suspicious: .tk dns query
event_id +- 3399
event_log_type +- Application
event_source +- syslog
event_type +- Information
event_user_domain +- N/A
event_user_name +- N/A
log_datetime +- 1490031971.693691
log_direction +- egress
log_priority +- 3
log_source +- Meraki Firewall IDS
protocol_type +- udp/ip
src_ip_address +- 192.168.30.10:49243
src_mac_address +- 00:15:5D:1E:08:04
threat_id +- 1:39867:3
threat_info +- INDICATOR-COMPROMISE Suspicious: .tk dns query
tags +- Intrusion Detected
tags +- Intrusion Detected
tags +- Meraki Firewall
    
```

Figure 13

- **Meraki Firewall- Web traffic details:** This report provides information related to web traffic.

Report Sample:

LogTime	Device Name	Source MAC	Source IP	Source Port	Destination IP	Destination Port	Request Type	Requested URI
03/29/2016 12:40:56 PM	MX60	00:18:0A:77:1B:D7	172.16.0.1	1	192.168.0.1	80	GET	http://192.168.3.12/fog/service/servicemodule-active.php?mac=00:0F:20:FE:CA:A8&moduleid=snapin' nc -v -u -w 0 172.16.1.90 552; done
03/29/2016 12:41:07 PM	MX60	00:18:0A:77:1B:D7	172.16.4.6	52436	173.194.115.45	80	GET	http://testuser:testpassword@pagead2.googleadsyndication.com/simgad/2675983589122411580
03/29/2016 12:41:18 PM	MX60	00:18:0A:82:4E:26	172.16.4.3	41805	74.50.59.38	443	UNKNOWN	http://dsfsd.sdf

Figure 14

Sample Log:

```

Mar 05 01:24:49 PM 1374543213.342705328 MX84 urls src=192.168.1.186:63735 dst=69.58.23.25:80 mac=58:1F:AA:CE:61:F2 request: GET http://bit.ly/17zTvl agent=""Go-http-client/1.1""

dest_ip_address +- 69.58.23.25
dest_port_no +- 80
event_computer +- meraki2019
event_description 1374543213.342705328 MX84 urls src=192.168.1.186:63735 dst=69.58.23.25:80 mac=58:1F:AA:CE:61:F2 request: GET http://bit.ly/17zTvl agent=""Go-http-client/1.1""
event_id +- 3399
event_log_type +- Application
event_source +- syslog
event_type +- Information
event_user_domain +- N/A
event_user_name +- N/A
http_type +- GET
log_source +- Meraki Firewall Web Traffic
src_ip_address +- 192.168.1.186
src_mac_address +- 58:1F:AA:CE:61:F2
src_port_no +- 63735
url_name +- http://bit.ly/17zTvl agent=""Go-http-client/1.1""
tags +- Web Traffic
tags +- Meraki
    
```

Figure 15

- **Meraki Firewall- Traffic flow details:** This report provides information related to inbound and outbound traffic flow.

### Report Sample:

LogTime	Device Name	Source MAC	Source IP	Source Port	Destination IP	Destination Port	Protocol Type	Rule Name
03/29/2016 11:56:40 AM	MX10		17.173.254.223	16387	24.249.102.115	1072	udp	1 all
03/29/2016 11:56:50 AM	MX10	00:18:0A:77:1B:D7	172.16.4.21	53336	74.125.193.138	443	tcp	allow all
03/29/2016 11:57:00 AM	MX60		39.41.41.56	13943	114.18.74.11	16329	udp	1 all
03/29/2016 11:57:08 AM	MX60	00:18:0A:98:L9:U7	192.168.10.254	9562	8.8.8.8	53	udp	allow all

Figure 16

### Sample Log:

```

- Mar 05 01:24:49 PM 192.168.10.1 1 948136486.721741837 MX60 flows src=192.168.10.254 dst=8.8.8.8 mac=00:18:0A:XX:XX:XX protocol=udp sport=9562 dport=53 pattern: allow all

action +- allow all
dest_ip_address +- 8.8.8.8
dest_port_no +- 53
event_computer +- meraki2019
event_description 192.168.10.1 1 948136486.721741837 MX60 flows src=192.168.10.254 dst=8.8.8.8 mac=00:18:0A:XX:XX:XX protocol=udp sport=9562 dport=53 pattern: allow all
event_id +- 3399
event_log_type +- Application
event_source +- syslog
event_type +- Information
event_user_domain +- N/A
event_user_name +- N/A
log_source +- Meraki Firewall Traffic Flow
protocol_type +- udp
src_ip_address +- 192.168.10.254
src_mac_address +- 00:18:0A:XX:XX:XX
src_port_no +- 9562
tags +- Traffic Activities
tags +- Meraki Firewall

```

Figure 17

## Alerts

- **Meraki Firewall: IDS alert detected** - This alert is generated when unusual traffic is detected by IDS.
- **Meraki Firewall: Suspicious content blocked** - This alert is generated when suspicious content is blocked by content filter.

## Categories and Saved searches

- **Meraki Firewall: Content Filter** - This category provides information related to web content blocked by content filter.
- **Meraki Firewall: IDS** - This category provides information related to threats detected by IDS.
- **Meraki Firewall: Traffic flow** - This category provides information related to ingress and egress traffic flow.

- **Meraki Firewall: Web traffic** - This category provides information related to inbound and outbound web traffic.
- **Meraki Firewall: Authentication Details** - This category provides information related to local user authentication attempt.
- **Meraki Firewall: VPN session** - This category provides information related to VPN sessions establishment, connection or disconnection.
- **Meraki Firewall: AMP** – This category provides information related to meraki firewall advance malware protection and detection details.

## Knowledge Objects

- **Meraki Firewall Advanced Malware Protection** - This knowledge object helps to analyze logs related to meraki firewall advanced malware protection.
- **Meraki Firewall Authentication Details** - This knowledge object helps to analyze logs related to user authentication and authorization activities.
- **Meraki Firewall Content Filter** - This knowledge object helps to analyze logs related to web content blocked by content filter.
- **Meraki Firewall IDS**- This knowledge object helps to analyze logs related to threats detected by IDS.
- **Meraki Firewall Traffic Flow**- This knowledge object helps to analyze logs related to network traffic flow details.
- **Meraki Firewall VPN**- This knowledge object helps to analyze logs related to VPN sessions establishment, connection or disconnection.

## Import Meraki Firewall knowledge pack into EventTracker

**NOTE:** Import knowledge pack items in the following sequence:

- Categories
  - Alerts
  - Token Templates
  - Knowledge Objects
  - Flex Reports
  - Dashboards
1. Launch **EventTracker Control Panel**.
  2. Double click **Export Import Utility**.

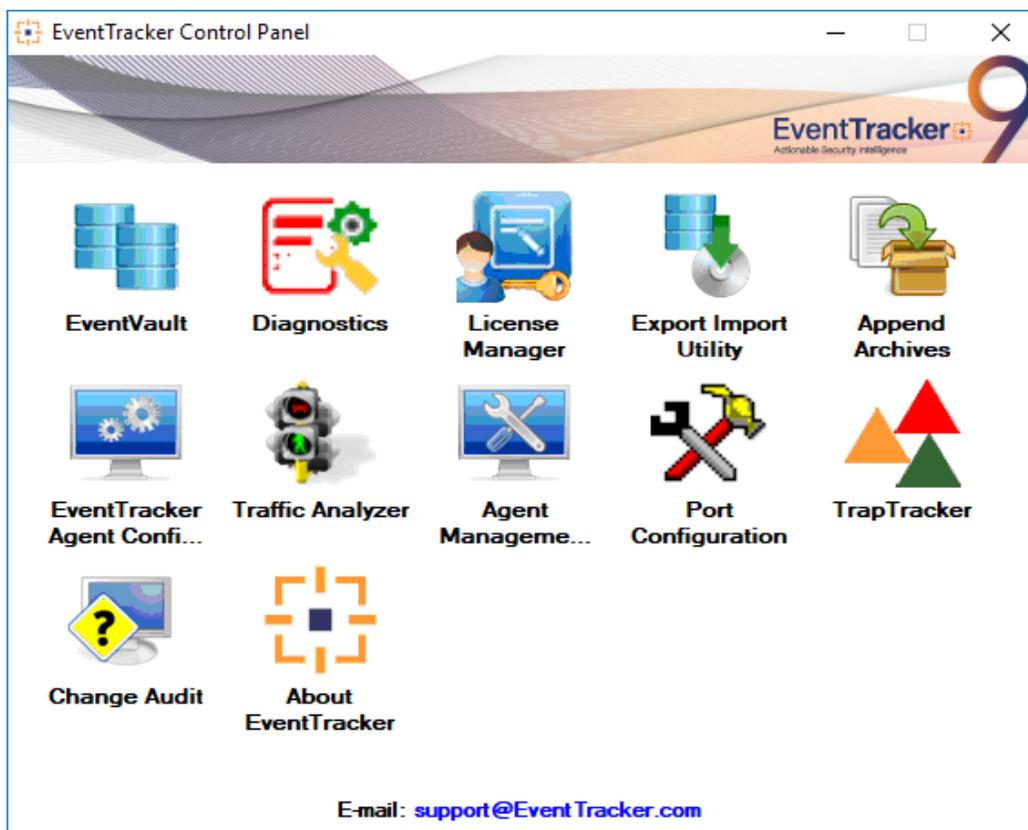


Figure 18

3. Click the **Import** tab.

## Category

1. Click **Category** option, and then click the browse  button.

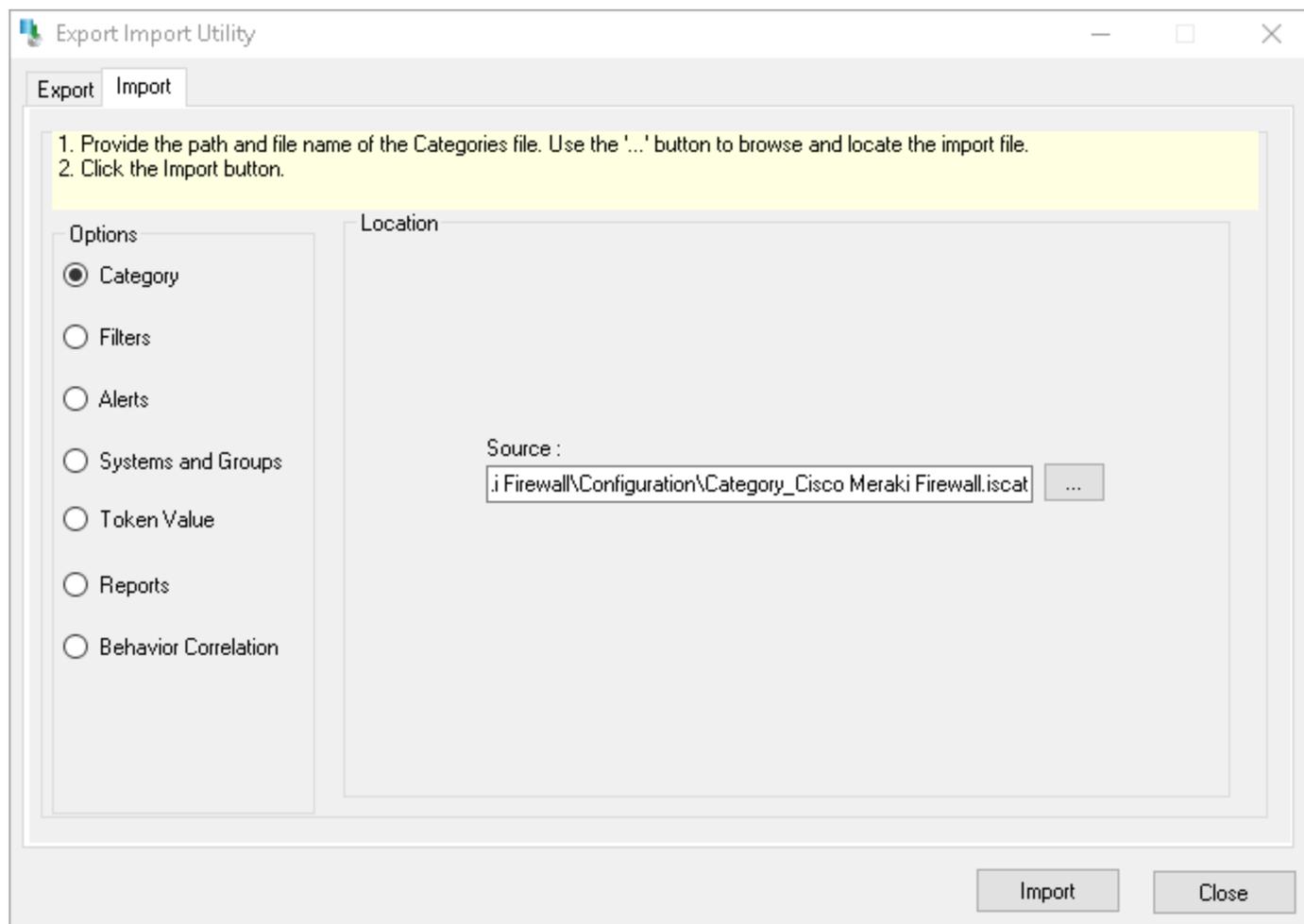


Figure 19

2. Locate **Category\_Cisco Meraki Firewall.iscat** file, and then click the **Open** button.
3. To import categories, click the **Import** button. EventTracker displays success message.

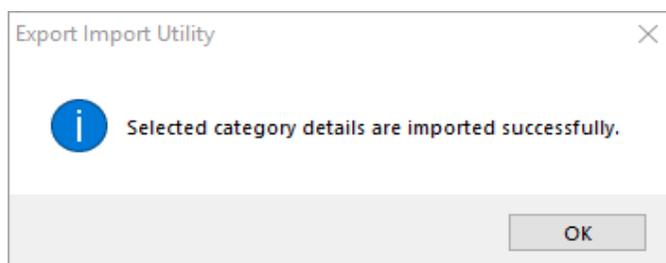


Figure 20

4. Click **OK**, and then click the **Close** button.

## Alerts

1. Click **Alert** option, and then click the browse  button.

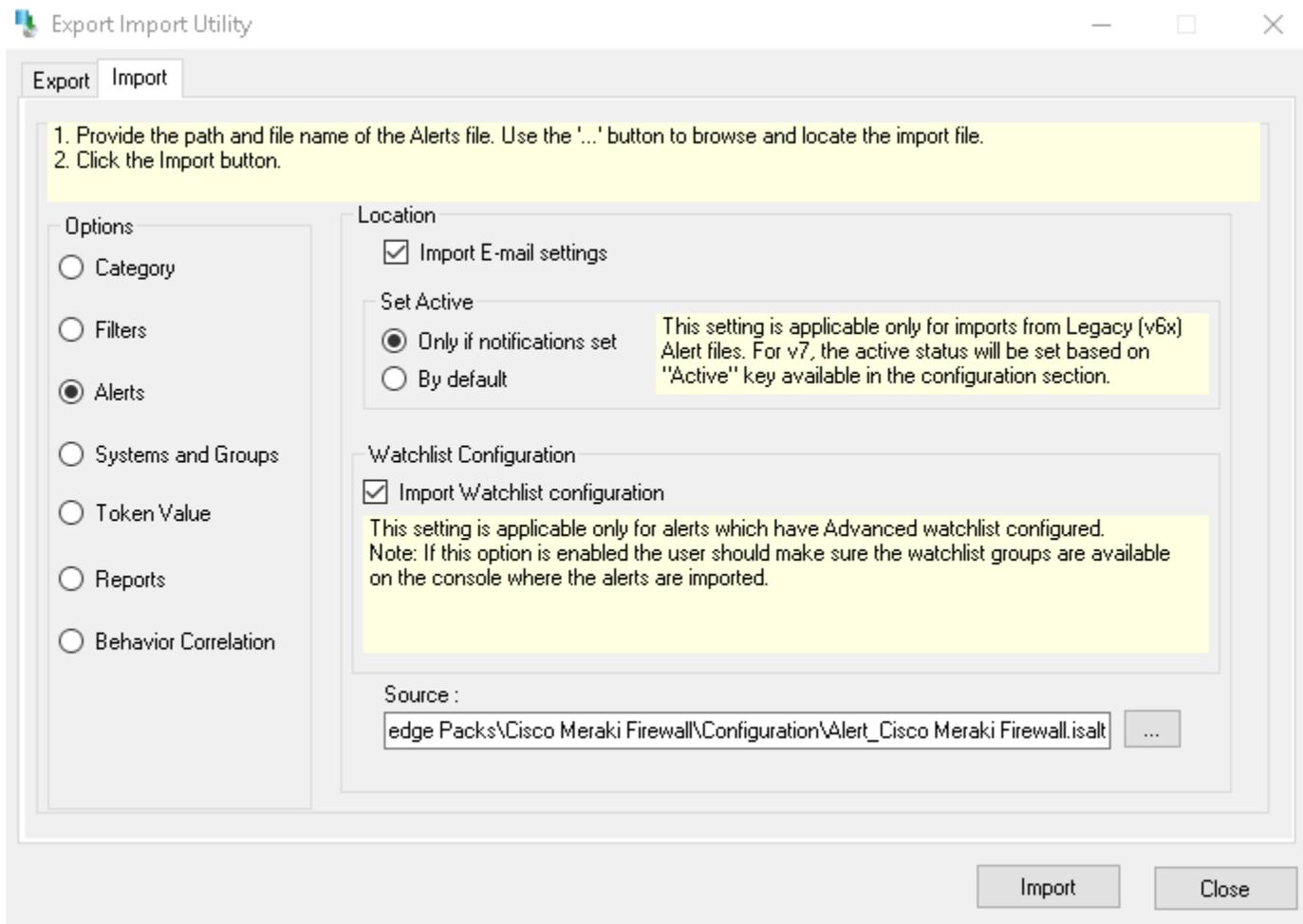


Figure 21

2. Locate **Alert\_Cisco Meraki Firewall.isalt** file, and then click the **Open** button.
3. To import alerts, click the **Import** button.

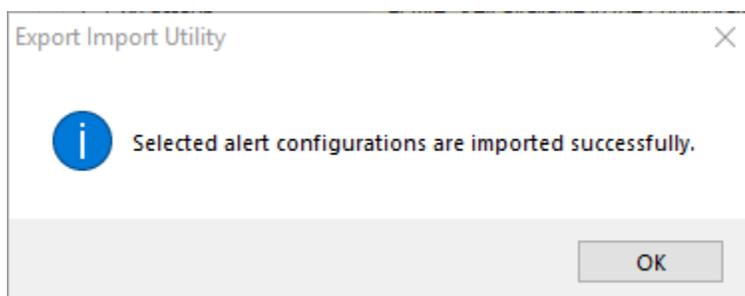


Figure 22

4. Click **OK**, and then click the **Close** button.

## Token Templates

1. Click **Parsing rules** under **Admin** option in the EventTracker manager page.
2. Move to **Template** and click on import configuration  icon on the top right corner.
3. In the popup window browse the file named **Template\_Cisco Meraki Firewall.ettd**.

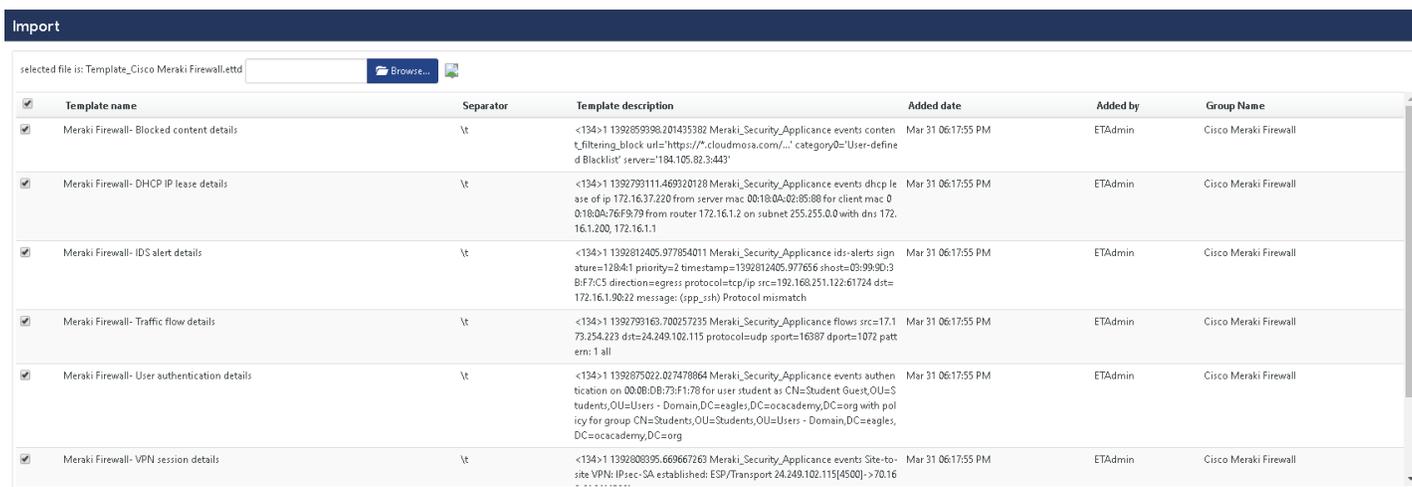


Figure 23

4. Now select all the check box and then click on  Import option. EventTracker displays success message.

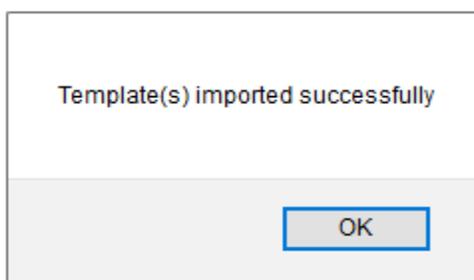


Figure 24

5. Click **OK**, and then click the **Close** button.

## Knowledge Objects

1. Click **Knowledge objects** under **Admin** option in the EventTracker manager page.
2. Locate the **KO\_Cisco Meraki Firewall.etko** file.

3. Click the **'Upload'** option.
4. Now select all the check box and then click on **'Import'** option.

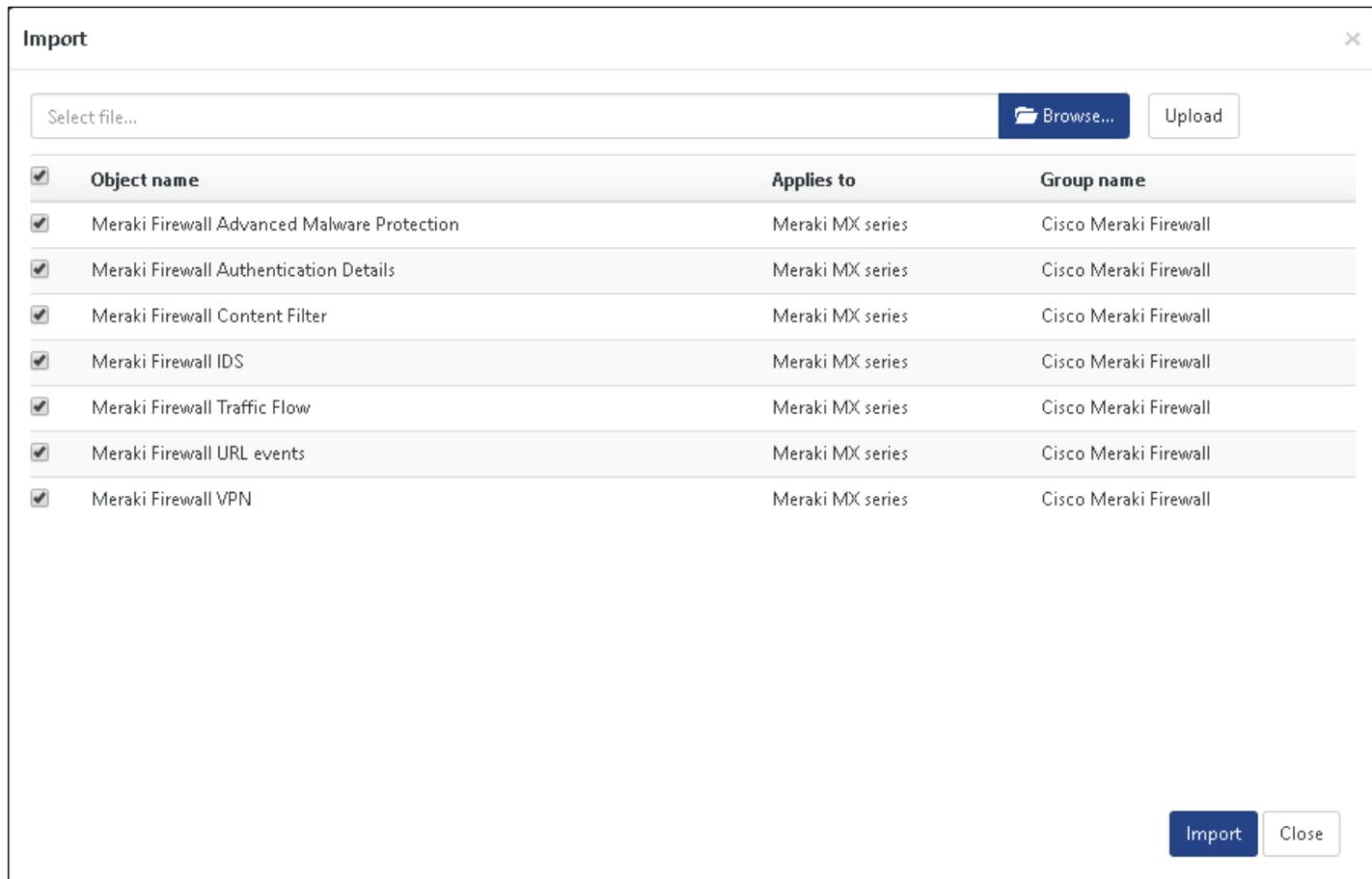


Figure 25

5. Knowledge objects are now imported successfully.

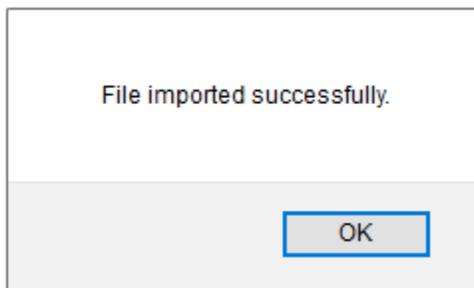


Figure 26

6. Click **OK**, and then click the **Close** button.

## Flex Reports

On EventTracker Control Panel,

1. Click **Reports** option, and select new (\*.etcrx) from the option.

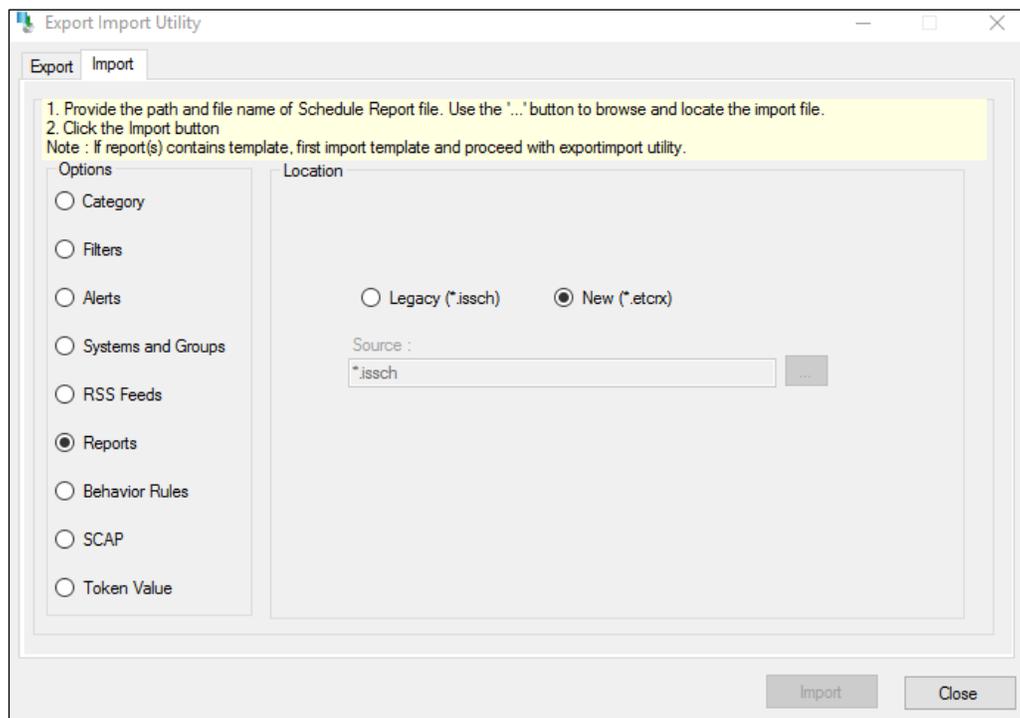


Figure 27

2. Locate the Flex **Report\_Cisco Meraki Firewall.etcrx** file and select all the check box.

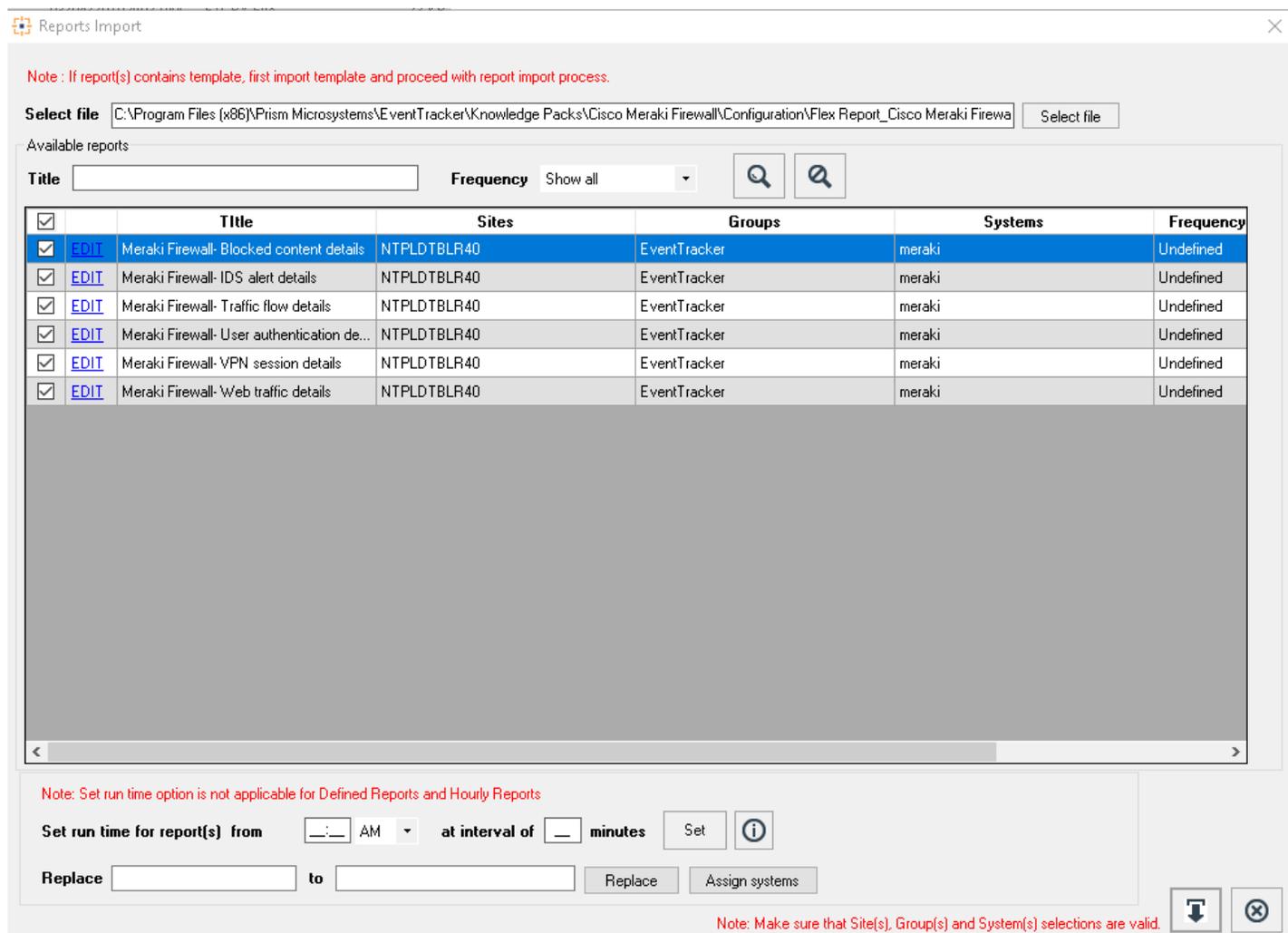


Figure 28

- Click the **Import** button to import the reports. EventTracker displays success message.

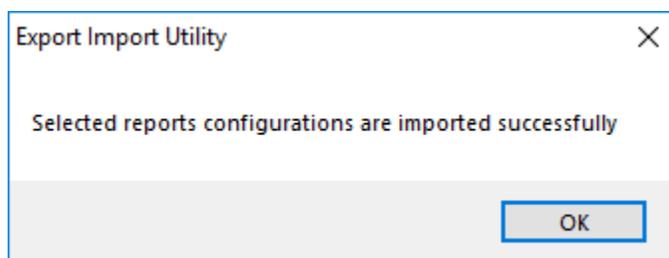


Figure 29

- Click **OK**, and then click the **Close** button.

# Verify Meraki Firewall knowledge pack in EventTracker

## Categories

1. Logon to **EventTracker Enterprise**.
2. Click **Admin** dropdown, and then click **Categories**.
3. In **Category Tree** to view imported categories, scroll down and expand **Cisco Meraki Firewall** group folder to view the imported categories.

Name	Modified date	Modified by
Meraki Firewall: AMP	May 04 04:08:47 PM	
Meraki Firewall: Authentication Details	May 04 04:08:47 PM	
Meraki Firewall: Content Filter	May 04 04:08:47 PM	
Meraki Firewall: IDS	May 04 04:08:47 PM	
Meraki Firewall: Traffic Flow	May 04 04:08:47 PM	
Meraki Firewall: VPN	May 04 04:08:47 PM	
Meraki Firewall: Web traffic	May 04 04:08:47 PM	

Figure 30

## Alerts

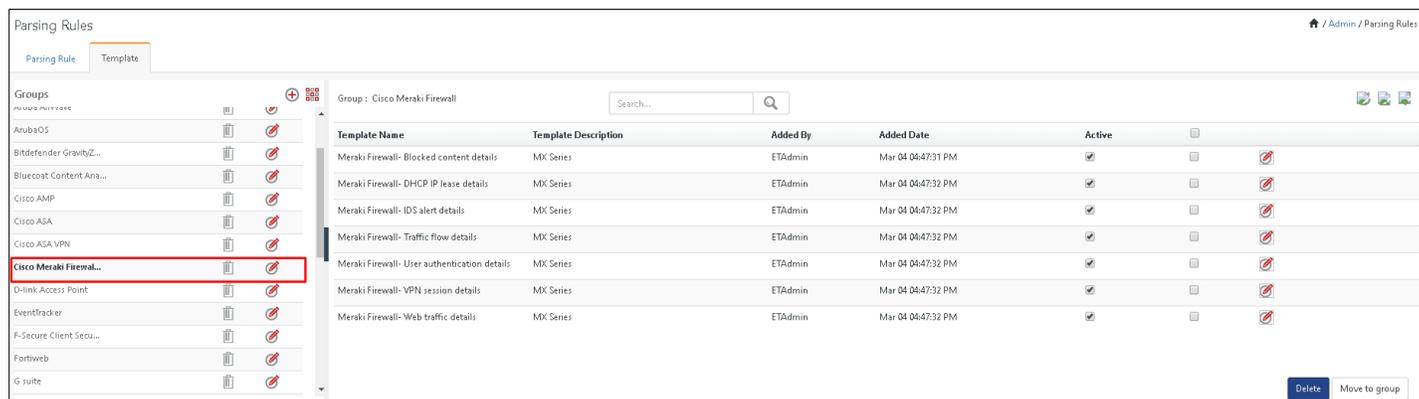
1. In the **EventTracker Enterprise** web interface, click the **Admin** dropdown, and then click **Alerts**.
2. In search box, enter **Meraki firewall** and then click the **Search** button.  
EventTracker displays alert of Meraki Firewall.

Alert Name	Threat	Active	E-mail	Forward as SNMP	Forward as Syslog	Remedial Action at Console	Remedial Action at Agent	Applies To
Meraki Firewall: IDS-alert detected	High	<input type="checkbox"/>	<input type="checkbox"/>	MX series				
Meraki Firewall: Suspicious content blocked	High	<input type="checkbox"/>	<input type="checkbox"/>	MX series				

Figure 31

## Token Templates

1. In the **EventTracker Enterprise** web interface, click the **Admin** dropdown, and then click **Parsing rules**.
2. On **Template** tab, click on the **Cisco Meraki Firewall** group folder to view the imported Token Values.



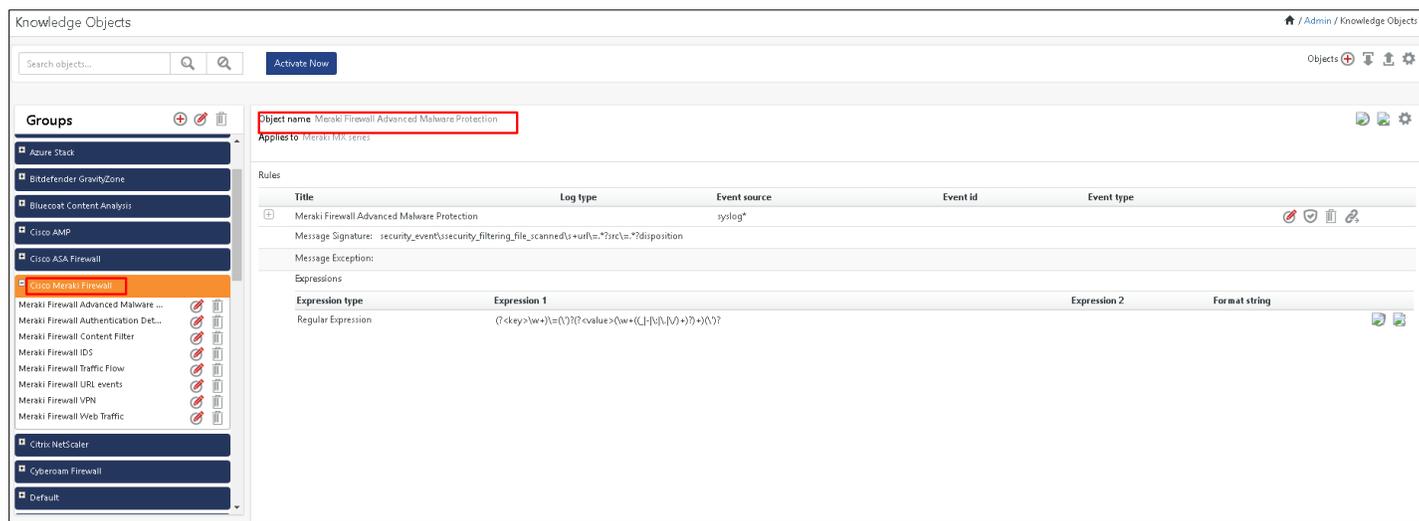
The screenshot shows the 'Parsing Rules' page in the EventTracker Enterprise web interface. The 'Template' tab is active. On the left, a list of groups is shown, with 'Cisco Meraki Firewall' highlighted in red. The main content area displays a table of templates for the 'Cisco Meraki Firewall' group. The table has columns for Template Name, Template Description, Added By, Added Date, and Active. The templates listed are:

Template Name	Template Description	Added By	Added Date	Active
Meraki Firewall- Blocked content details	MX Series	ETAdmin	Mar 04 04:47:31 PM	<input checked="" type="checkbox"/>
Meraki Firewall- DHCP IP lease details	MX Series	ETAdmin	Mar 04 04:47:32 PM	<input checked="" type="checkbox"/>
Meraki Firewall- IDS alert details	MX Series	ETAdmin	Mar 04 04:47:32 PM	<input checked="" type="checkbox"/>
Meraki Firewall- Traffic flow details	MX Series	ETAdmin	Mar 04 04:47:32 PM	<input checked="" type="checkbox"/>
Meraki Firewall- User authentication details	MX Series	ETAdmin	Mar 04 04:47:32 PM	<input checked="" type="checkbox"/>
Meraki Firewall- VPN session details	MX Series	ETAdmin	Mar 04 04:47:32 PM	<input checked="" type="checkbox"/>
Meraki Firewall- Web traffic details	MX Series	ETAdmin	Mar 04 04:47:32 PM	<input checked="" type="checkbox"/>

Figure 32

## Knowledge Objects

1. In the **EventTracker Enterprise** web interface, click the **Admin** dropdown, and then click **Knowledge Objects**.
2. In the **Knowledge Object** tree, expand **Meraki Firewall** group folder to view the imported Knowledge objects.



The screenshot shows the 'Knowledge Objects' page in the EventTracker Enterprise web interface. The 'Cisco Meraki Firewall' group is expanded in the left sidebar, and the 'Meraki Firewall Advanced Malware Protection' object is selected. The main content area displays the details of this object, including its title, log type, event source, and a regular expression.

**Object name:** Meraki Firewall Advanced Malware Protection  
**Applies to:** Meraki MX series

**Rules**

Title	Log type	Event source	Event id	Event type
Meraki Firewall Advanced Malware Protection		syslog*		

**Message Signature:** security\_event[security\_filtering\_file\_scanned]&url=\*&rc=&?&disposition

**Message Exception:**

**Expressions**

Expression type	Expression 1	Expression 2	Format string
Regular Expression	(?<key>(w-)=())(?<value>(w+(C H V N V+)?)+())?		

Figure 33

## Flex Reports

1. In the **EventTracker Enterprise** web interface, click the **Reports** menu, and then select **Report Configuration**.

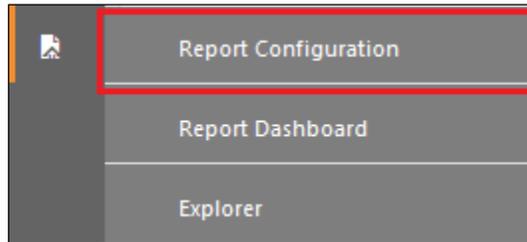


Figure 34

2. In **Reports Configuration** pane, select **Defined** option.
3. Click on the **Meraki Firewall** group folder to view the imported **Meraki Firewall** reports.

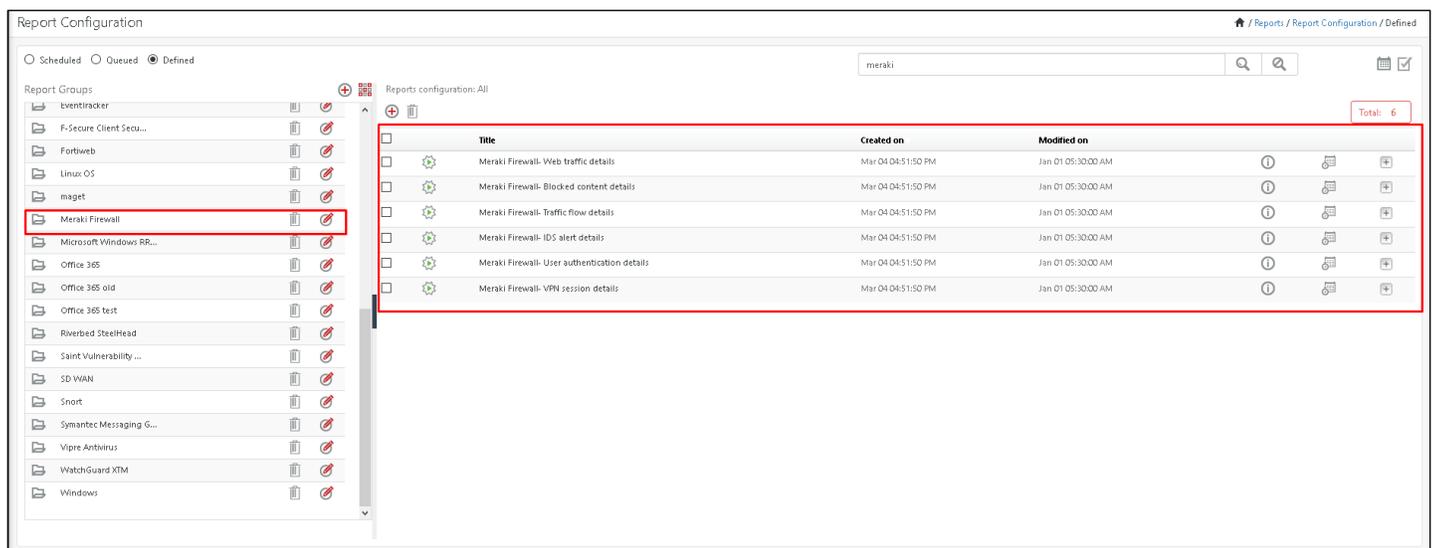


Figure 35