Integrate ThreatConnect with Umbrella

Contents

Introduction

This document describes how to integrate ThreatConnect with Cisco Umbrella.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- A ThreatConnect dashboard with access to update the URL for integrations
- Umbrella dashboard administrative rights
- The Umbrella dashboard must have ThreatConnect integration enabled.

Components Used

The information in this document is based on Cisco Umbrella.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

ThreatConnect and Cisco Umbrella Integration Overview

By integrating ThreatConnect with Cisco Umbrella, security officers and administrators are now able to extend protection against advanced threats to roaming laptops, tablets, or phones while also providing another layer of enforcement to a distributed corporate network.

This guide outlines how to configure ThreatConnect to communicate with Umbrella so security events from the ThreatConnect TIP are integrated into policies that can be applied to clients protected by your Cisco Umbrella.

Note: The ThreatConnect integration is only included in a certain Cisco Umbrella package. If you do not have a package that includes this integration, please contact your Cisco Umbrella representative to obtain it. If you have the correct package but do not see ThreatConnect as an integration for your dashboard, please contact Cisco Umbrella Support.

The ThreatConnect platform first sends the Cyber Threat Intelligence that it found, such as domains that host malware, command and control for botnet or phishing sites, to Umbrella.

Umbrella then validates the threat to ensure it can be added to a policy. If the information from ThreatConnect is confirmed to be a threat, the domain address is added to the ThreatConnect Destination List as part of a security setting that can be applied to any Umbrella policy. That policy is immediately applied to any requests being made from devices using policies with the ThreatConnect Destination List.

Going forward, Umbrella automatically parses ThreatConnect alerts and adds malicious sites to the ThreatConnect Destination List, extending ThreatConnect protection to all remote users and devices and providing another layer of enforcement to your corporate network.

Tip: While Umbrella tries its best to validate and allow domains that are known to be generally safe (for example, Google and Salesforce), to avoid any unwanted interruptions, Umbrella suggests adding any domains that you do not want to be blocked to the Global Allow List or other destination lists as per your policy. Examples include:

- The home page for your organization. For example, mydomain.com.
- Domains representing services you provide that can have both internal and external records. For example, mail.myservicedomain.com and portal.myotherservicedomain.com.

- Lesser-known cloud applications that you depend on heavily but that Umbrella is not aware of or include in its automatic domain validation. For example, localcloudservice.com.

The Global Allow List is found at **Policies** > **Destination Lists** in Umbrella. See the documentation for more information: [Manage Destination Lists]

Configure the Umbrella Dashboard to Receive Events from ThreatConnect

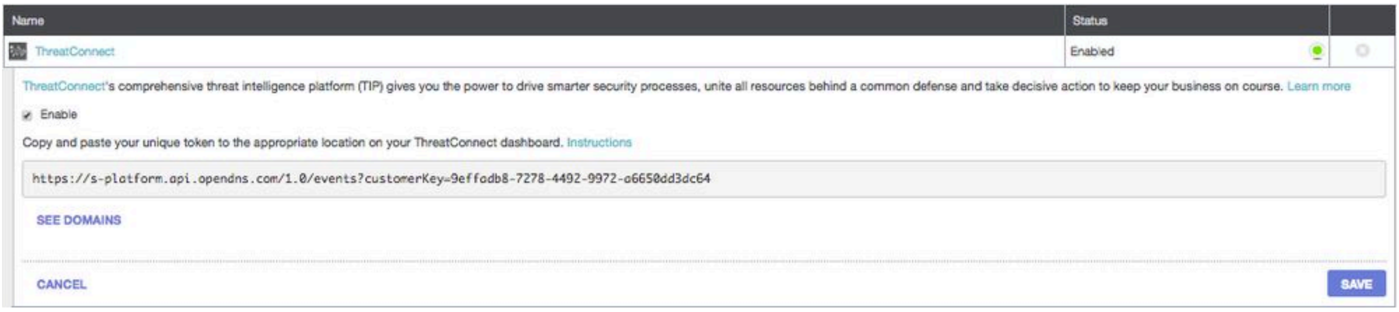
Begin by finding your unique URL in Umbrella for the ThreatQ appliance to communicate with:

1. Log into your Umbrella dashboard.

2. Navigate to **Policies** > **Integrations**.

3. In the table, select **ThreatConnect** to expand it.

4. Select **Enable**, and then select **Save**. This generates a unique, specific URL for your organization within Umbrella.



Name	Status	
ThreatConnect	Enabled ●	○

ThreatConnect's comprehensive threat intelligence platform (TIP) gives you the power to drive smarter security processes, unite all resources behind a common defense and take decisive action to keep your business on course. Learn more

☑ Enable

Copy and paste your unique token to the appropriate location on your ThreatConnect dashboard. Instructions

```
https://s-platform.api.opendns.com/1.0/events?customerKey=9effadb8-7278-4492-9972-a6650dd3dc64
```

You need the URL later in this article when you are configuring the ThreatConnect to send data to Umbrella.

Configure ThreatConnect to Communicate with Umbrella

In order to begin sending traffic from ThreatConnect to Umbrella, you need to configure ThreatConnect with the URL information generated in the first section of this article:

1. Log into your ThreatConnect dashboard.

2. Add the URL in the appropriate area to connect with Umbrella.

Exact instructions vary, and Umbrella suggests contacting ThreatConnect support if you are uncertain of how or where to configure API integrations within ThreatConnect.

Observing Events Added to the ThreatConnect Security Category in Audit Mode

Over time, events from your ThreatConnect dashboard can begin to populate a specific destination list that can be applied to policies as a ThreatConnect Security Category. By default, the destination list and the security category are in Audit mode, which means that they are not applied to policies and do not result in any change to your existing Umbrella policies.

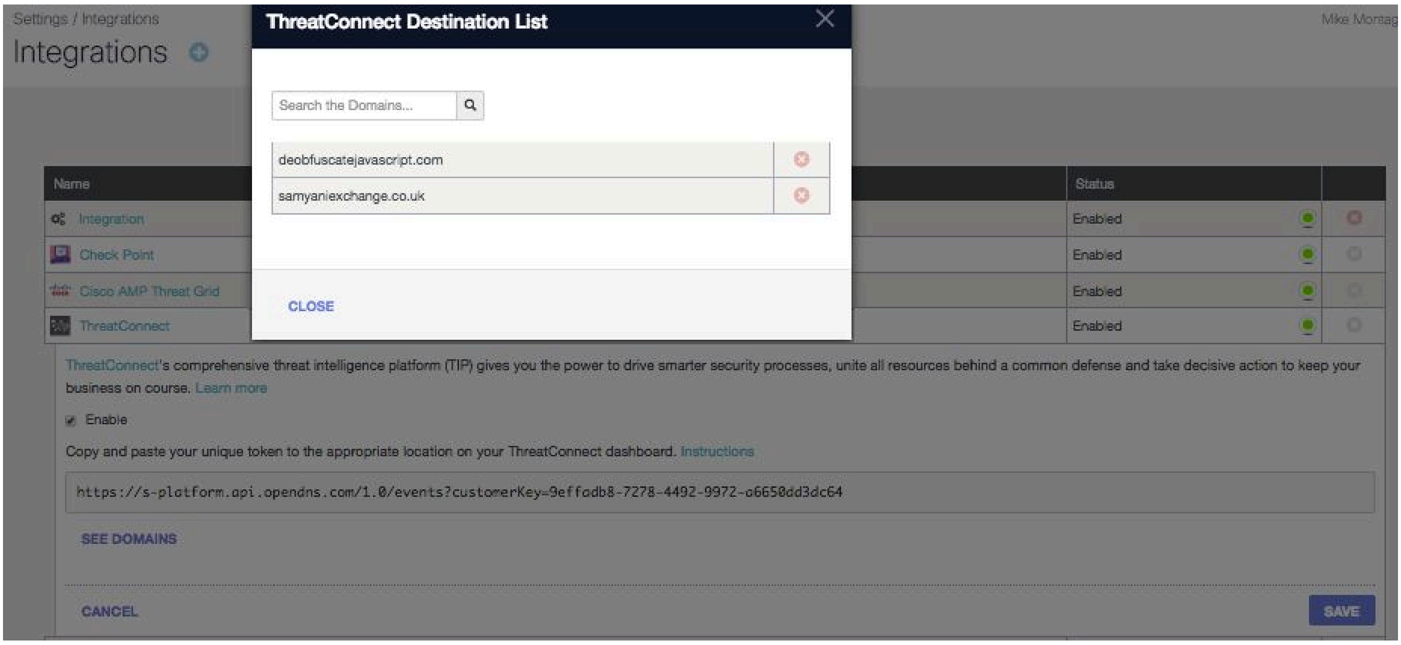
Note: Audit mode can be enabled for however long is necessary based on your deployment profile and network configuration.

Review Destination List

You can review the ThreatConnect Destination List in Umbrella at any time:

1. In the Umbrella dashboard, navigate to **Policies > Integrations**.

2. In the table, expand **ThreatConnect** and select **See Domains**.



Settings / Integrations

Integrations

ThreatConnect Destination List

Search the Domains...

deobfuscatejavascript.com

samyaniexchange.co.uk

CLOSE

Name	Status
Integration	Enabled
Check Point	Enabled
Cisco AMP Threat Grid	Enabled
ThreatConnect	Enabled

ThreatConnect's comprehensive threat intelligence platform (TIP) gives you the power to drive smarter security processes, unite all resources behind a common defense and take decisive action to keep your business on course. Learn more

☑ Enable

Copy and paste your unique token to the appropriate location on your ThreatConnect dashboard. Instructions

```
https://s-platform.api.opendns.com/1.0/events?customerKey=9effadb8-7278-4492-9972-a6650dd3dc64
```

SEE DOMAINS

CANCEL SAVE

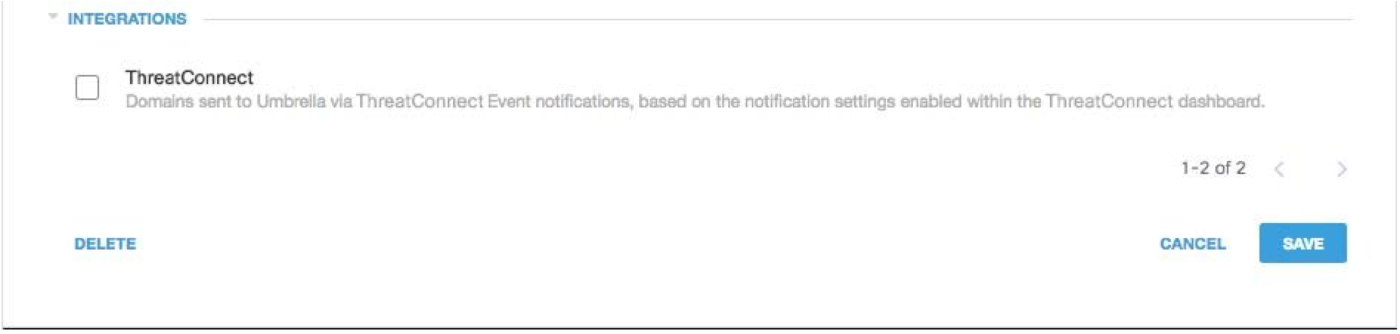
Review Security Settings for a Policy

You can review the security setting that can be enabled for a policy at any time:

1. In the Umbrella dashboard, navigate to **Policies** > **Security Settings**.

2. Select a security setting in the table to expand it.

3. Scroll to **Integrations** to locate the **ThreatConnect** setting.



INTEGRATIONS

□ ThreatConnect
Domains sent to Umbrella via ThreatConnect Event notifications, based on the notification settings enabled within the ThreatConnect dashboard.

1-2 of 2

DELETE CANCEL SAVE

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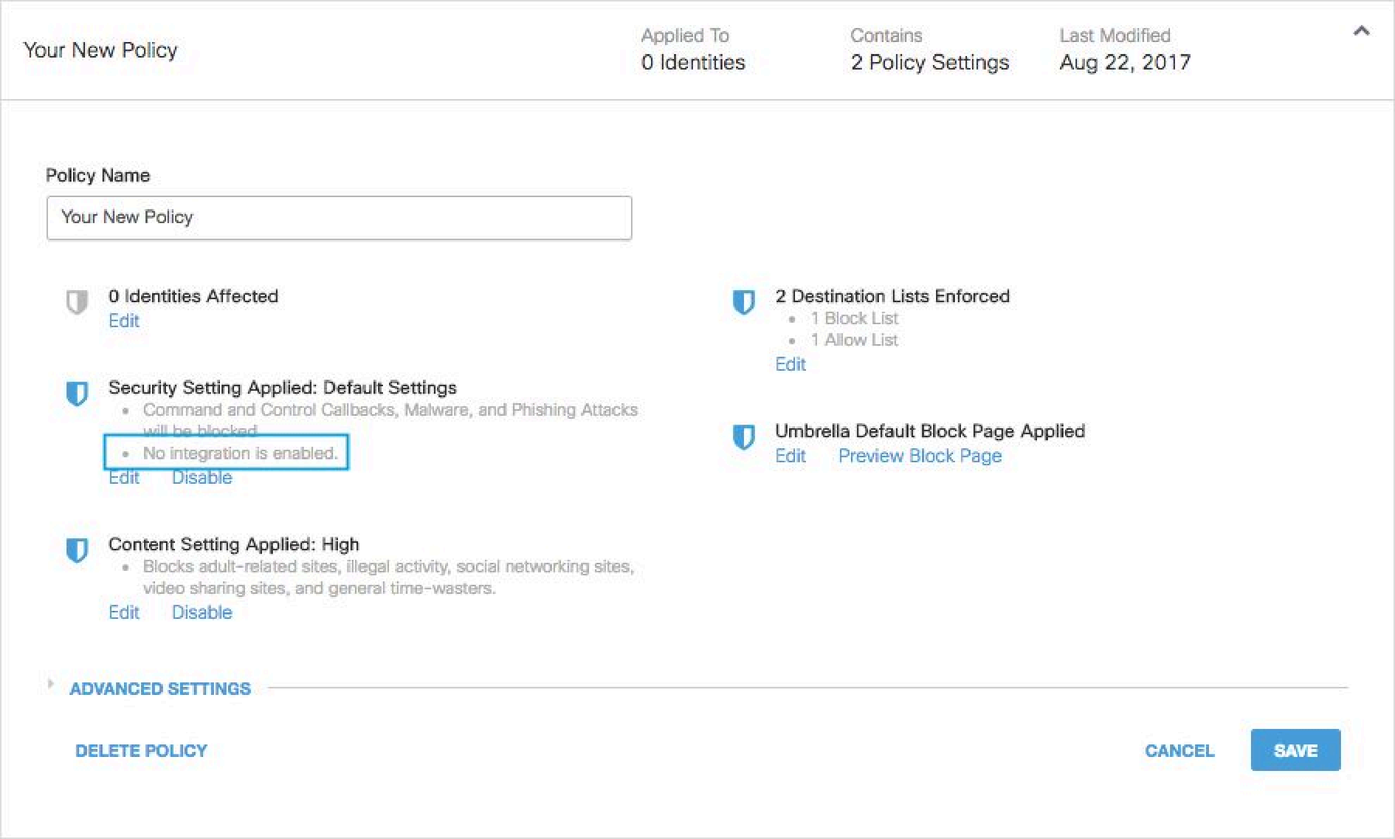
4. You can also review integration information through the **Security Settings Summary** page.



Your New Policy

Applied To
0 Identities

Contains
2 Policy Settings

Last Modified
Aug 22, 2017

Policy Name

Your New Policy

0 Identities Affected

Edit

2 Destination Lists Enforced

- 1 Block List
- 1 Allow List

Edit

Security Setting Applied: Default Settings

- Command and Control Callbacks, Malware, and Phishing Attacks will be blocked.
- No integration is enabled.

Edit Disable

Umbrella Default Block Page Applied

Edit Preview Block Page

Content Setting Applied: High

- Blocks adult-related sites, illegal activity, social networking sites, video sharing sites, and general time-wasters.

Edit Disable

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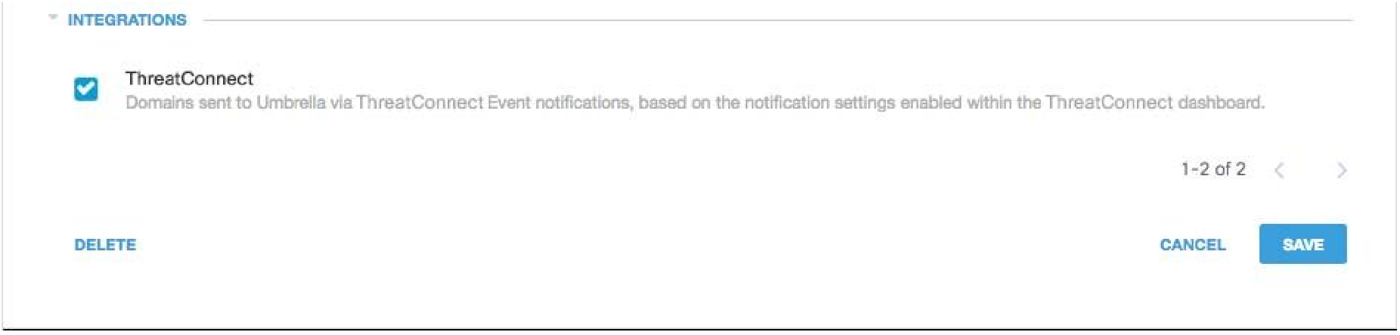
Applying the ThreatConnect Security Settings in Block Mode to a Policy for Managed Clients

Once you are ready to have these additional security threats enforced against by clients managed by Umbrella, simply change the security setting on an existing policy, or create a new policy that sits above your default policy to ensure it is enforced first:

1. Navigate to **Policies** > **Security Settings**.

2. Under **Integrations**, select **ThreatConnect**, and then select **Save**.



INTEGRATIONS

☑ ThreatConnect
Domains sent to Umbrella via ThreatConnect Event notifications, based on the notification settings enabled within the ThreatConnect dashboard.

1-2 of 2

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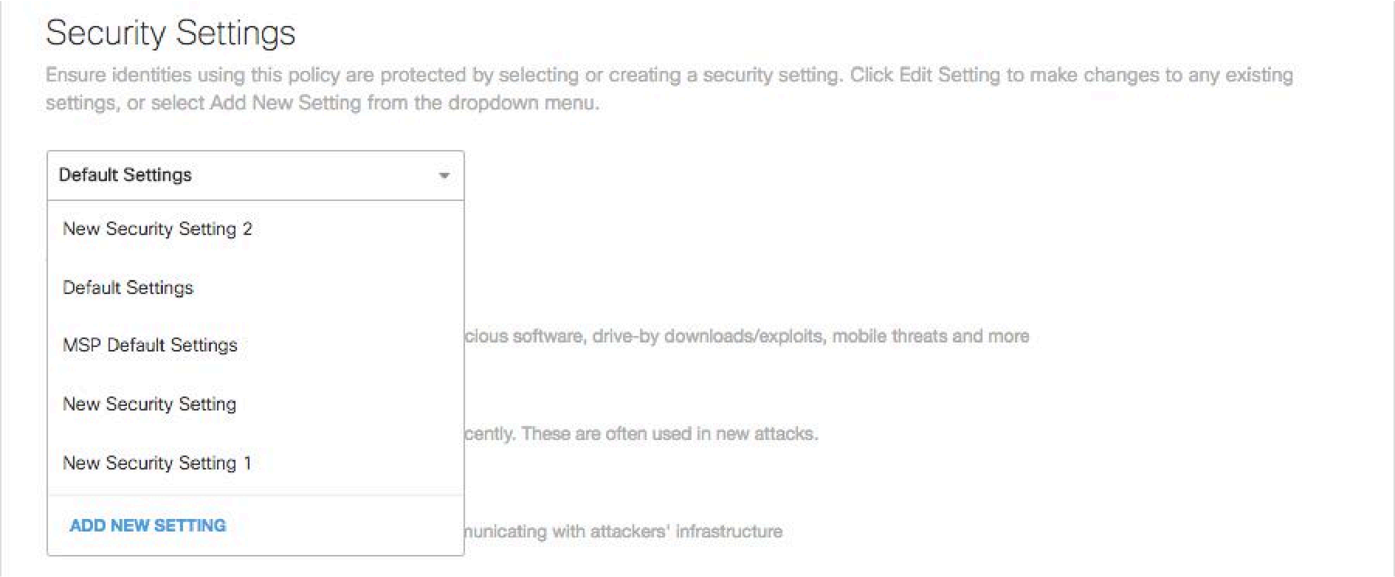
Next, in the Policy wizard, add a security setting to the policy you are editing:

1. Navigate to **Policies** > **Policy List**.

2. Expand a policy. Under **Security Setting Applied**, select **Edit**.

3. In the **Security Settings** dropdown, select a security setting that includes the **ThreatConnect** setting.



Security Settings

Ensure identities using this policy are protected by selecting or creating a security setting. Click Edit Setting to make changes to any existing settings, or select Add New Setting from the dropdown menu.

Default Settings
New Security Setting 2
Default Settings
MSP Default Settings
New Security Setting
New Security Setting 1
ADD NEW SETTING
cious software, drive-by downloads/exploits, mobile threats and more
cently. These are often used in new attacks.
nunicating with attackers' infrastructure

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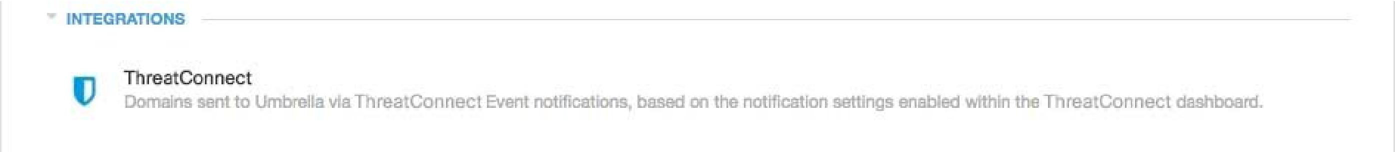
The shield icon under **Integrations** updates to blue.



INTEGRATIONS

ThreatConnect

Domains sent to Umbrella via ThreatConnect Event notifications, based on the notification settings enabled within the ThreatConnect dashboard.

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4. Select **Set & Return**.

ThreatConnect domains contained within the security setting for ThreatConnect are then blocked for identities using the policy.

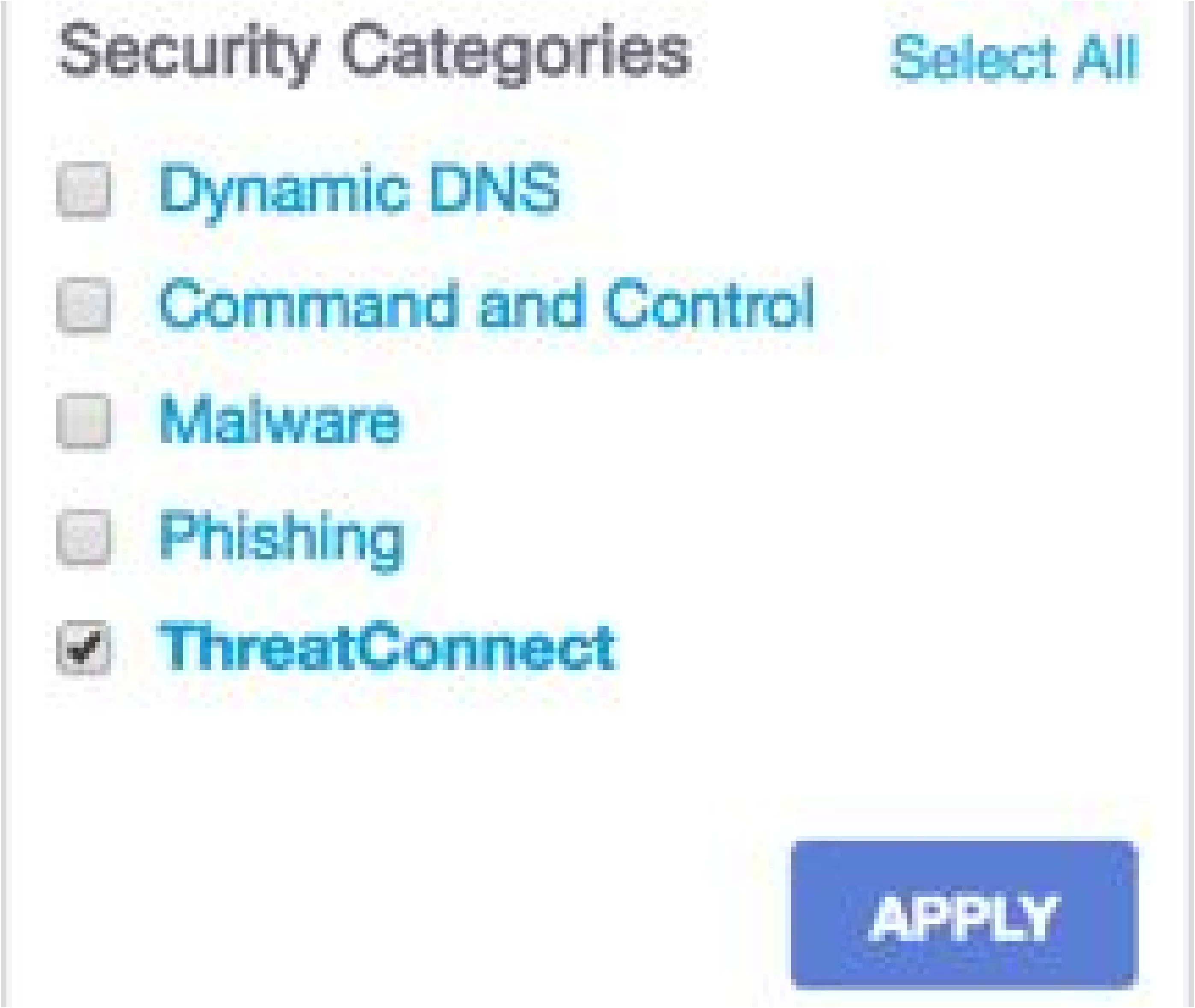
Reporting in Umbrella for ThreatConnect Events

Reporting on ThreatConnect Security Events

The ThreatConnect Destination List is one of the security categories lists you can report on. Most or all of the reports use the Security Categories as a filter. For instance, you can filter security categories to only show ThreatConnect related activity:

1. Navigate to **Reporting > Activity Search**.

2. Under **Security Categories**, select **ThreatConnect** to filter the report to only show the security category for ThreatConnect.



Security Categories Select All

□ Dynamic DNS

□ Command and Control

□ Malware

□ Phishing

☑ ThreatConnect

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Note: If ThreatConnect integration is disabled, it does not appear in the Security Categories filter.

3. Select **Apply**.

Reporting when Domains were Added to the ThreatConnect Destination List

The Admin Audit log includes events from the ThreatConnect dashboard as it adds domains to the destination list. A user named "ThreatConnect Account," which is also branded with the ThreatConnect logo, generates the events. These events include the domain that was added and the time at which it was added.

You can filter to only include ThreatConnect changes by applying a filter for the "ThreatConnect Account" user.

Handling Unwanted Detections or False Positives

Allow Lists

Although unlikely, it is possible that domains added automatically by ThreatConnect can trigger an unwanted block that would prevent users from accessing particular websites. In a situation like this, Umbrella recommends adding the domain(s) to an allow list, which takes precedence over all other types of block lists, including security settings.

There are two reasons why this approach is preferable:

- First, in case the ThreatConnect dashboard re-added the domain after it was removed, the allow list safeguards against that causing further issues.
- Additionally, the allow list shows a historical record of problematic domains that can be used for forensics or audit reports.

By default, there is a Global Allow List that is applied to all policies. Adding a domain to the Global Allow List results in the domain being allowed in all policies.

If the ThreatConnect security setting in block mode is only applied to a subset of your managed Umbrella identities (for instance, it is only applied to roaming computers and mobile devices), you can create a specific allow list for those identities or policies.

To create an allow list:

1. Navigate to **Policies** > **Destination Lists** and select the **Add** (+) icon.

2. Select **Allow** and add your domain to the list.

3. Select **Save**.

Once the destination list has been saved, you can add it to an existing policy covering those clients that have been affected by the unwanted block.

Deleting Domains from the ThreatConnect Destination List

There is a **Delete** icon next to each domain name in the ThreatConnect Destination List. Deleting domains lets you clean up the ThreatConnect Destination List in the event of an unwanted detection. However, the delete is **not** permanent if the ThreatConnect dashboard resends the domain to Umbrella.

To delete a domain:

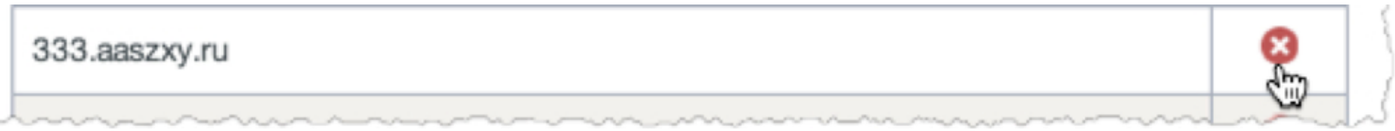
1. Navigate to **Policies** > **Integrations**.

2. Select **ThreatConnect** to expand it.

3. Select **See Domains**.

4. Search for the domain name that you want to delete.

5. Select the **Delete** icon.



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6. Select **Close**, then select **Save**.

In the instance of an unwanted detection or false positive, Umbrella recommends creating an allow list in

Umbrella immediately and then remediating the false positive within the ThreatConnect dashboard. Later, you can remove the domain from the ThreatConnect Destination List.