



How-To Guide

Integrate Cisco Umbrella with Netsurion Open XDR

Publication Date

July 13, 2023

Abstract

This guide provides instructions to configure and integrate Cisco Umbrella with Netsurion Open XDR to retrieve its logs via API and forward them to Netsurion Open XDR.

Note:

The screen/ figure references are only for illustration purpose and may not match the installed product UI.

Scope

The configuration details in this guide are consistent with Cisco Umbrella and Netsurion Open XDR 9.3 or later.

Audience

This guide is for the administrators responsible for configuring and monitoring Cisco Umbrella in Netsurion Open XDR.

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1 Overview

Cisco Umbrella, formerly known as OpenDNS, is a cloud-based domain name resolution service. Netsurion Open XDR offers a solution for configuring and monitoring both events involving single organizations and Managed Service Providers (MSPs).

Netsurion Open XDR manages logs retrieved from Cisco Umbrella. The alerts, reports, dashboards, and saved searches in Netsurion Open XDR are enhanced by capturing any suspicious activities analyze the activity logs such as, DNS, proxy, firewall, or IP address.

2 Prerequisites

- PowerShell 5.0 must be installed on the host system or server.
- Users must have administrative privileges on the host system or server.
- Admin access to Cisco Umbrella platform.
- Uninstallation of the legacy version (below v2.0.0) of the Cisco Umbrella Integrator (if configured).

Note

Refer to [How To Uninstall OpenDNS Integrator guide](#) to uninstall any legacy version (below v2.0.0) of the OpenDNS integrator installed in the system. This process is mandatory before installing the new Cisco Umbrella integrator version 2.x.x.

- Upgradation of the existing version (v2.0.0) of Cisco Umbrella Integrator (if configured).

Note

Refer to [How-To-Upgrade-Cisco-Umbrella-Netsurion guide](#) to upgrade the Cisco Umbrella integrator from v2.0.0 to v2.1.0. There is no need to follow further instruction in this document when the integrator is being upgraded.

- The Data Source Integration package.

Note

To get the Data Source Integration package, contact your Netsurion Account Manager.

IMPORTANT

From integrator version 2.x.x onwards, the system name will be changed. Following is an example for the system name format.

<OrganizationName>-CiscoUmbrella@<ComputerName>~<GroupName>

By default, the following Cisco Umbrella Category logs are received by Netsurion Open XDR.

Adult, Adult Themes, Adware, Application Allow, Cannabis, Child Abuse Content, Command and Control, Command and Control, Cryptocurrency, Crypto mining, Drive-by Downloads/Exploits, Drugs, File Transfer Services, Filter Avoidance, Gambling, Hacking, Hate Speech, Hate/Discrimination, High Risk Sites and Locations, Illegal Activities, Illegal Downloads, Illegal Drugs, Infringing Intellectual Property, Malware, Malware, Mobile Threats, Non-sexual Nudity, Not Actionable, Nudity, Online Trading, Phishing, Pornography, Potentially Harmful, Proxy/Anonymizer, Sexuality, Terrorism, Terrorism and Violent Extremism, Weapons, Web Hosting, Web Spam

Note

Category IDs can be included or excluded in the **Fetch.csv** located in **\CiscoUmbrella\Data\Fetch.csv**. For further analysis, refer to the **CategoryList.txt** file available in same path.

3 Integrating Cisco Umbrella with Netsurion Open XDR

3.1 Integrating Cisco Umbrella for Single Organization

Perform the following procedure to configure Cisco Umbrella for Single Organization.

Note:

If trying to change the configuration from MSP to single, it is necessary to first delete the MSP configuration and then reconfigure.

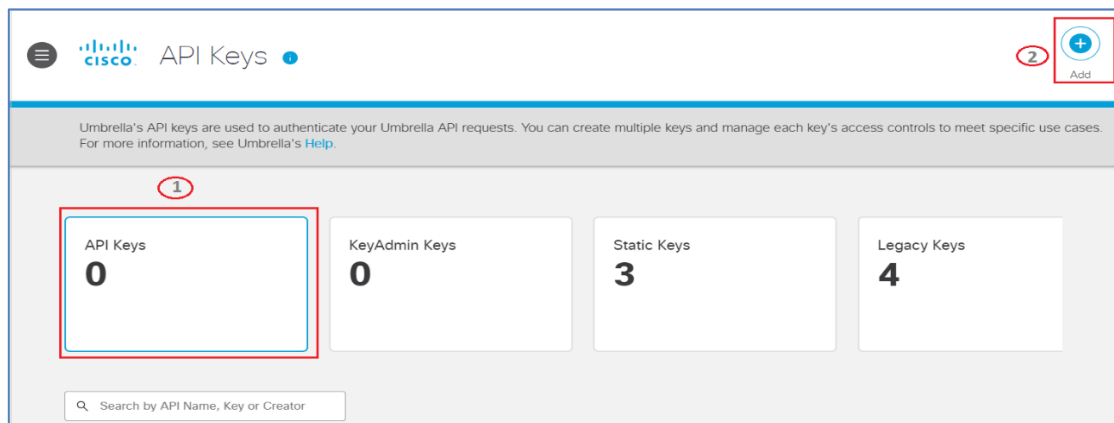
3.1.1 Collecting the Cisco Umbrella API Key and API Secret, and Organization ID

The organization Id can be obtained directly from the Umbrella dashboard after logging in to the organization, as it will be present in the URL.

Note:

URL: <https://dashboard.umbrella.com/o/{organizationId}/#/overview>.

1. In the organization's Umbrella dashboard, navigate to **Admin > API Keys**.
2. In the **API Keys** interface, click **API Keys** and then click **Add**.

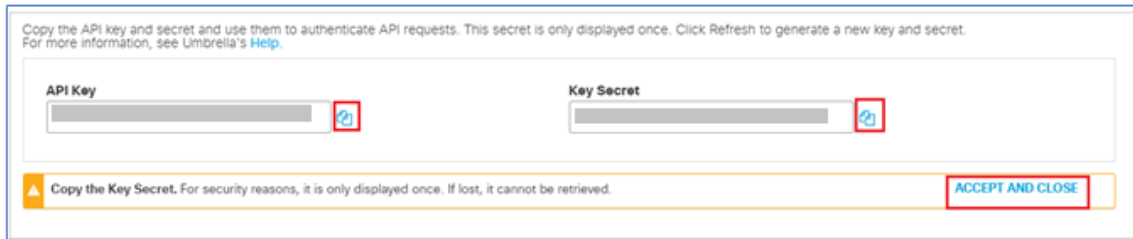


3. In the **Add New API Key** interface, specify the following details.

- a. Provide **API key Name** (for example, OpenXDR_API).
 - b. In the **Key Scope** section, select the **Reports** check box.
 - c. In the **Expiry Date** section, choose the **Never** option.
4. After providing the necessary details, click the **CREATE KEY** button to create the API KEY.
 5. Then, copy the **API key** and **Key Secret**, and then click **Accept** and **Close**.

Note:

Make a note of API key and Key secret which will be required while configuring the Integrator.



Copy the API key and secret and use them to authenticate API requests. This secret is only displayed once. Click Refresh to generate a new key and secret. For more information, see Umbrella's [Help](#).

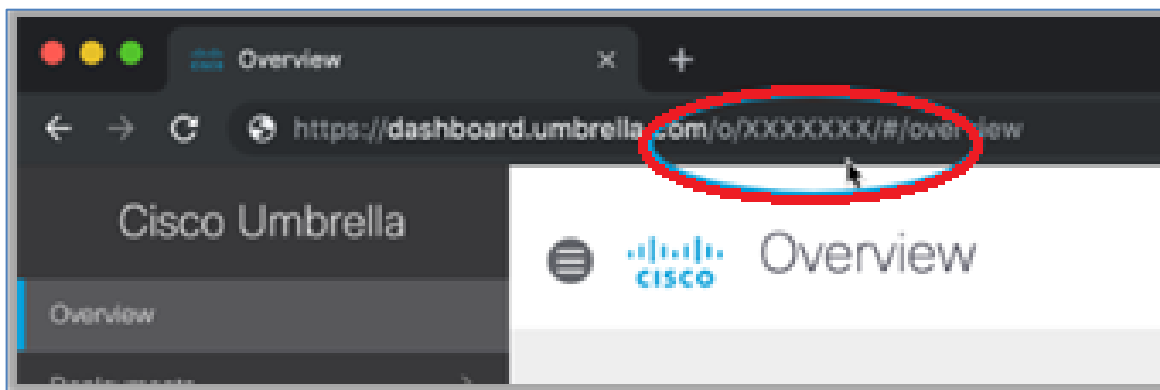
API Key

Key Secret

Copy the Key Secret. For security reasons, it is only displayed once. If lost, it cannot be retrieved.

ACCEPT AND CLOSE

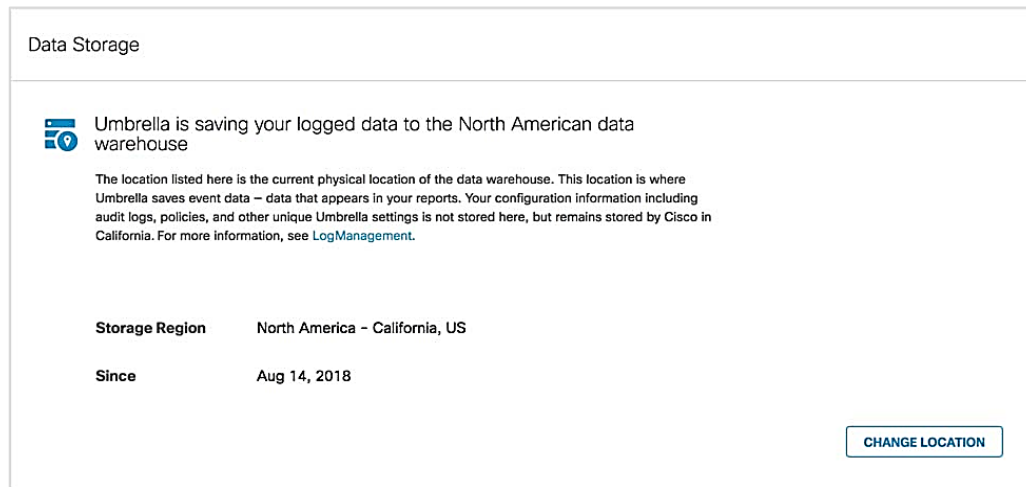
6. To generate a new **API Key** and **Key Secret**, you can either click the **Refresh** button on your existing **API Key** and **Key secret** or delete the existing **API Key** and **Key Secret** and then create a new **API Key** and **Key Secret**.
7. To collect the **Organization Id**, verify the URL in the address bar (after logging in to the appropriate organization) and the URL appears as shown in the following image.




3.1.2 Verifying the API Region

Cisco Umbrella's data warehouse is the virtual location where the instance of Umbrella stores its event data logs. By default, the Umbrella saves your event data logs to Cisco's California location.

- In the **Umbrella** console, go to **Admin > Log Management > Data Storage** and look up for the **Storage region** to verify your Cisco Umbrella data warehouse location.



Data Storage

 Umbrella is saving your logged data to the North American data warehouse

The location listed here is the current physical location of the data warehouse. This location is where Umbrella saves event data – data that appears in your reports. Your configuration information including audit logs, policies, and other unique Umbrella settings is not stored here, but remains stored by Cisco in California. For more information, see [LogManagement](#).

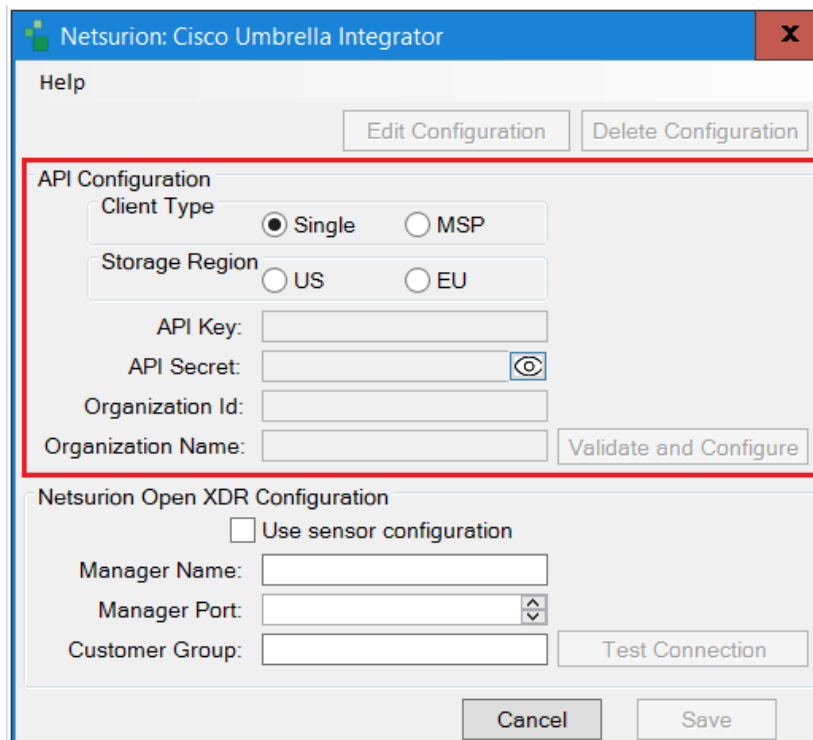
Storage Region	North America - California, US
Since	Aug 14, 2018

[CHANGE LOCATION](#)

3.1.3 Configuring the Integrator

Perform the following procedure to configure the Cisco Umbrella Integrator. After completing the API and permission configurations, run the integrator package **Cisco_Umbrella_Integrator.exe**.

1. In the **Netsurion: Cisco Umbrella Integrator > API Configuration** section, provide the following details.



Netsurion: Cisco Umbrella Integrator

Help


[Edit Configuration](#) [Delete Configuration](#)

API Configuration

Client Type ☒ Single ☐ MSP

Storage Region ☐ US ☐ EU

API Key:

API Secret: 

Organization Id:

Organization Name: [Validate and Configure](#)

Netsurion Open XDR Configuration

☐ Use sensor configuration

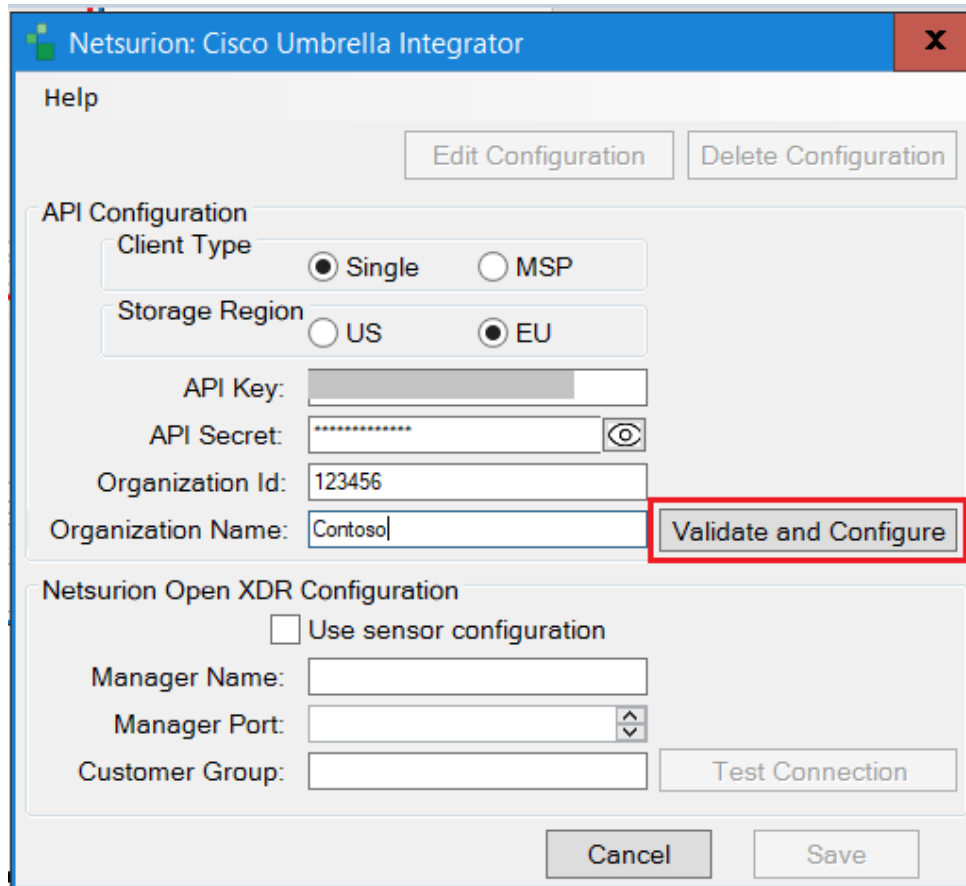
Manager Name:

Manager Port:

Customer Group: [Test Connection](#)

[Cancel](#) [Save](#)

- a. **Client Type:** Choose the **Client Type** as **Single**
 - b. **Storage Region:** Choose the required **Storage Region**.
 - c. Specify the Cisco Umbrella **API Key**, **API Secret**, **Organization Id** (can be obtained from Cisco Umbrella GUI), **Organization Name**.
2. After providing the necessary details, click the **Validate and Configure** button to verify the credentials.



The image shows a configuration window titled "Netsurion: Cisco Umbrella Integrator". It has a "Help" button and two buttons: "Edit Configuration" and "Delete Configuration". The "API Configuration" section includes:

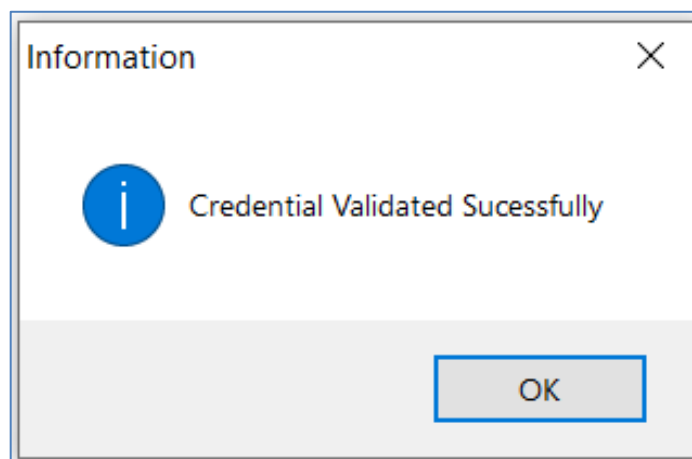
- Client Type:** Radio buttons for "Single" (selected) and "MSP".
- Storage Region:** Radio buttons for "US" and "EU" (selected).
- API Key:** A text input field.
- API Secret:** A password input field with a visibility toggle icon.
- Organization Id:** A text input field containing "123456".
- Organization Name:** A text input field containing "Contoso".
- Validate and Configure:** A button highlighted with a red rectangle.

The "Netsurion Open XDR Configuration" section includes:

- ☐ Use sensor configuration
- Manager Name:** A text input field.
- Manager Port:** A text input field with a dropdown arrow.
- Customer Group:** A text input field.
- Test Connection:** A button.

At the bottom are "Cancel" and "Save" buttons.

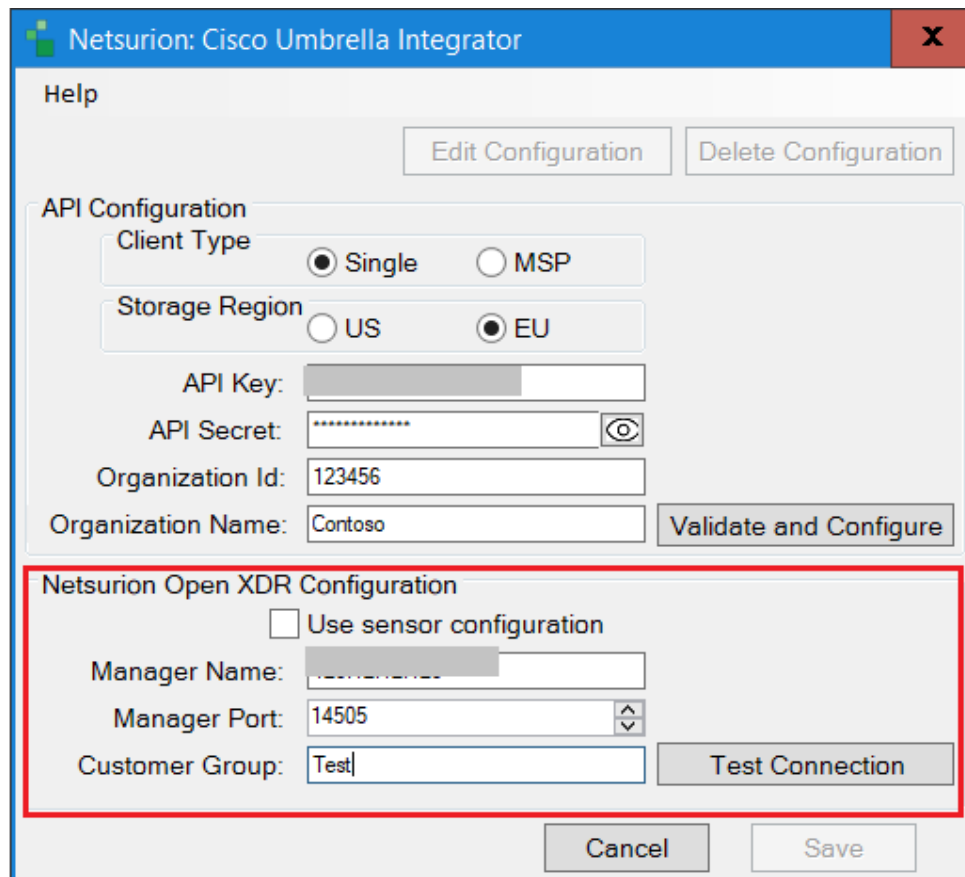
If the configuration is validated successfully, then an Information window pops-up stating '**Credential validated successfully**'.



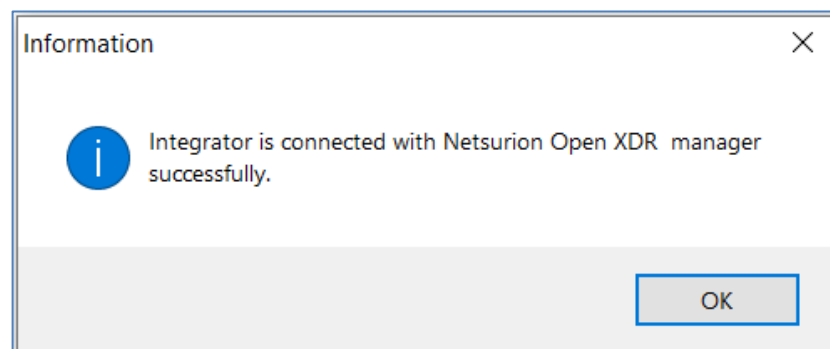
3. In the **Netsurion: Cisco Umbrella Integrator > Netsurion Open XDR Configuration** section, either provide the Manager details to send the logs to a particular Netsurion Open XDR or use the sensor configuration.

To provide the Manager details:

- Specify **Manager Name**, **Manager Port**, and **Customer Group**, and then click **Test Connection** to validate the details.

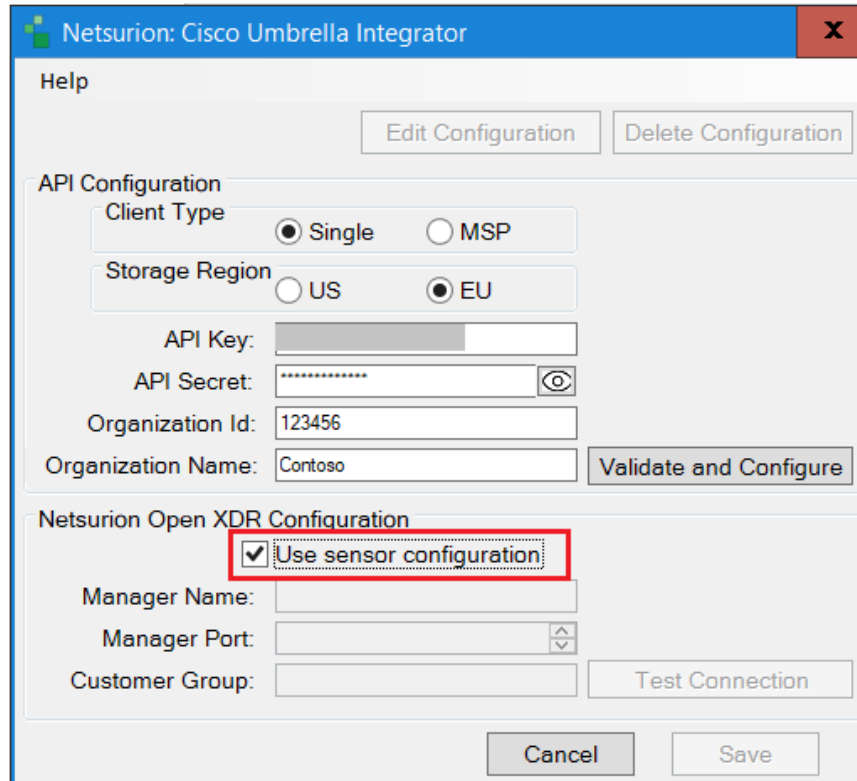


If the connection is validated successfully, an Information window pops-up stating '**Integrator is connected with Netsurion Open XDR manager successfully**'.



To use the Sensor configuration:

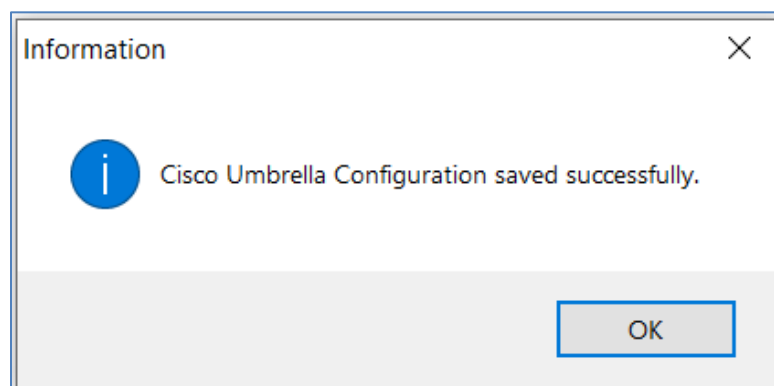
- Select the **Use sensor configuration** check box if you want to use the sensor configuration wherein the Netsurion Open XDR sensor is already installed in the system.



The image shows the 'Netsurion: Cisco Umbrella Integrator' configuration window. It has a title bar with the Netsurion logo and a close button. Below the title bar is a 'Help' button and two buttons: 'Edit Configuration' and 'Delete Configuration'. The main configuration area is divided into two sections. The first section, 'API Configuration', contains radio buttons for 'Client Type' (Single selected, MSP unselected) and 'Storage Region' (US unselected, EU selected). Below these are text fields for 'API Key', 'API Secret' (masked with dots and a toggle icon), 'Organization Id' (123456), and 'Organization Name' (Contoso). A 'Validate and Configure' button is at the bottom right of this section. The second section, 'Netsurion Open XDR Configuration', has a red box around the 'Use sensor configuration' checkbox, which is checked. Below this are text fields for 'Manager Name', 'Manager Port' (with up/down arrows), and 'Customer Group'. A 'Test Connection' button is at the bottom right of this section. At the very bottom of the window are 'Cancel' and 'Save' buttons.

4. After specifying the required details, click **Save** and the following information window pops-up stating '**Configuration saved successfully**'.

The integrator validates the details, retrieves the organization's information, and saves the configuration, resulting in the successful integration of Cisco Umbrella with Netsurion Open XDR.

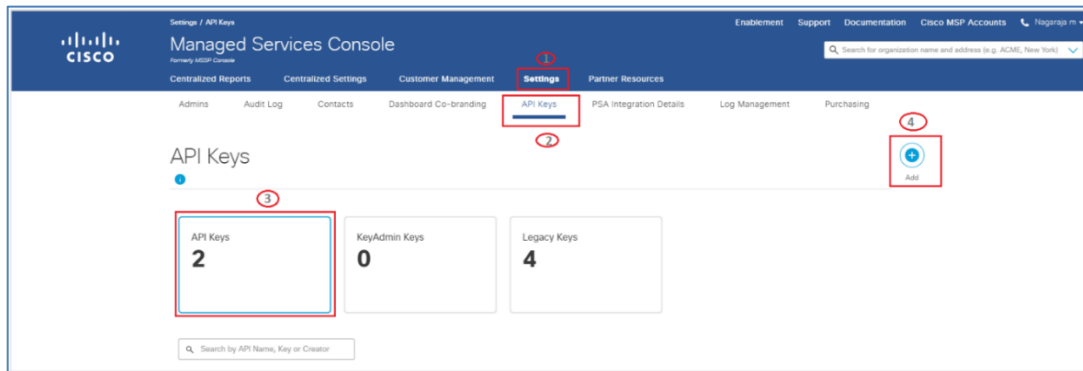


3.2 Integrating Cisco Umbrella for MSP

Perform the following procedures to configure Cisco Umbrella for MSP.

3.2.1 Collecting MSP API Key and API Secret

1. In the **Cisco Umbrella MSP** dashboard, go to **Settings > API Keys** and click **API Keys**, and then click **Add**.



2. In the **Add New API Key** interface, specify the following details.

Add New API Key

To add this unique API key to Umbrella, select its scope—what it can do—and set an expiry date. The key and secret created here are unique. Deleting, refreshing or modifying this API key may break or interrupt integrations that use this key. For more information, see Umbrella's [Help](#).

API Key Name

Key Scope
 Select the appropriate access scopes to define what this API key can do.

☐ Admin 6 >
 ☐ Deployments 10 >
 ☐ Policies 3 >
 ☒ Reports 5 >

Expiry Date

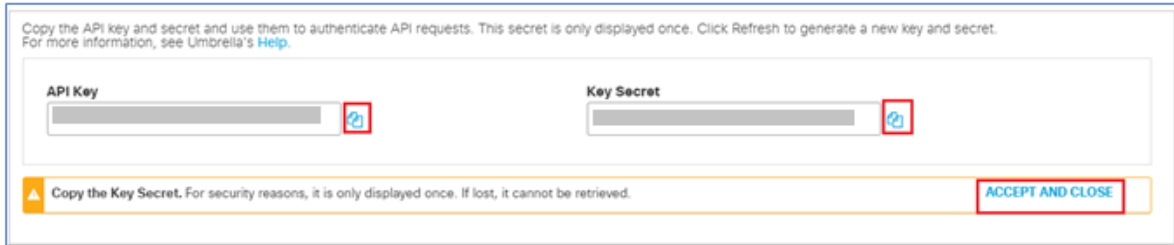
☒ Never expire
 ☐ Expire on: Apr 18 2023

- a. Provide **API Key Name** (for example, OpenXDR_API).
- b. In the **Key Scope** section, select the **Reports** check box.
- c. In the **Expiry Date** section, choose the **Never expire** option.


3. After providing the necessary details click the **CREATE KEY** button to create the API KEY.
4. Then, copy the **API key** and **Key Secret**, and then click **Accept** and **Close**.


Note:


Make a note of API Key and Key Secret which will be required while configuring the Integrator.



Copy the API key and secret and use them to authenticate API requests. This secret is only displayed once. Click Refresh to generate a new key and secret. For more information, see Umbrella's [Help](#).

API Key 

Key Secret 

 Copy the Key Secret. For security reasons, it is only displayed once. If lost, it cannot be retrieved.

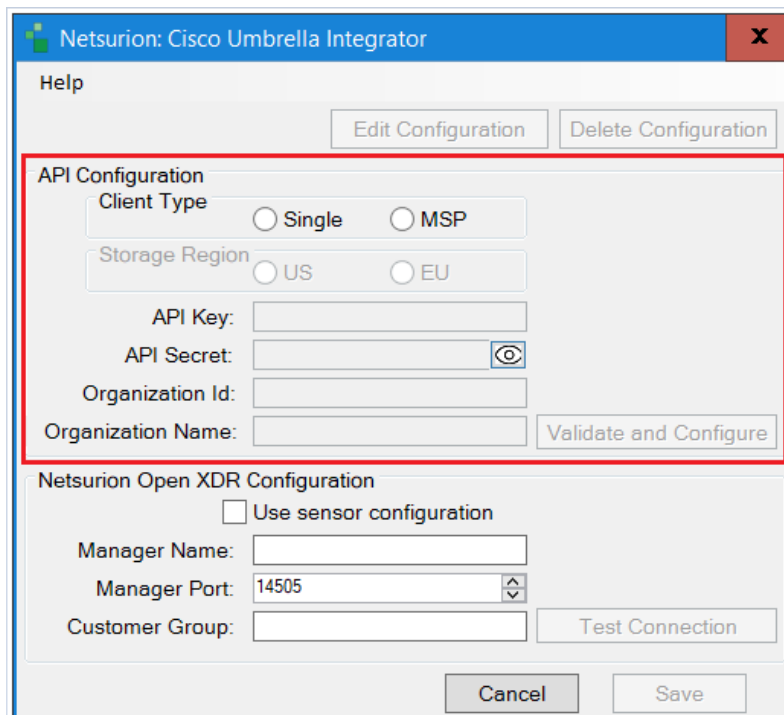
ACCEPT AND CLOSE

5. To generate a new **API Key** and **Key Secret**, you can either click the **Refresh** button on your existing **API Key** and **Key Secret** or delete the existing **API Key** and **Key Secret** and then create a new **API Key** and **Key Secret**.

3.2.2 Configuring Netsurion Open XDR Cisco Umbrella Integrator for MSP

After completing the API and permission configurations, run the integrator package **Cisco_Umbrella_Integrator.exe**.

1. In the **Netsurion: Cisco Umbrella Integrator > API Configuration** section, provide the following details.



Netsurion: Cisco Umbrella Integrator


Help Edit Configuration Delete Configuration

API Configuration

Client Type ☐ Single ☐ MSP

Storage Region ☐ US ☐ EU

API Key:

API Secret: 


Organization Id:

Organization Name: Validate and Configure

Netsurion Open XDR Configuration

☐ Use sensor configuration

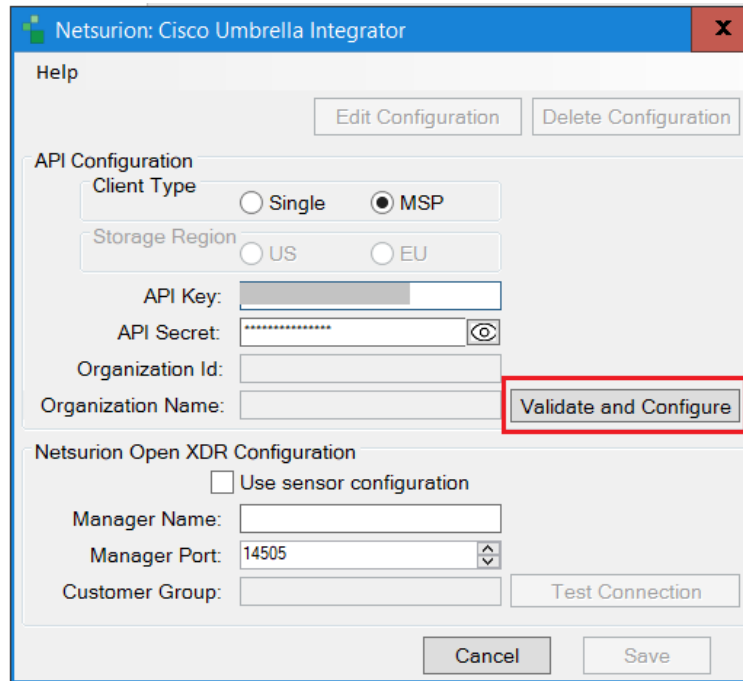
Manager Name:

Manager Port: 

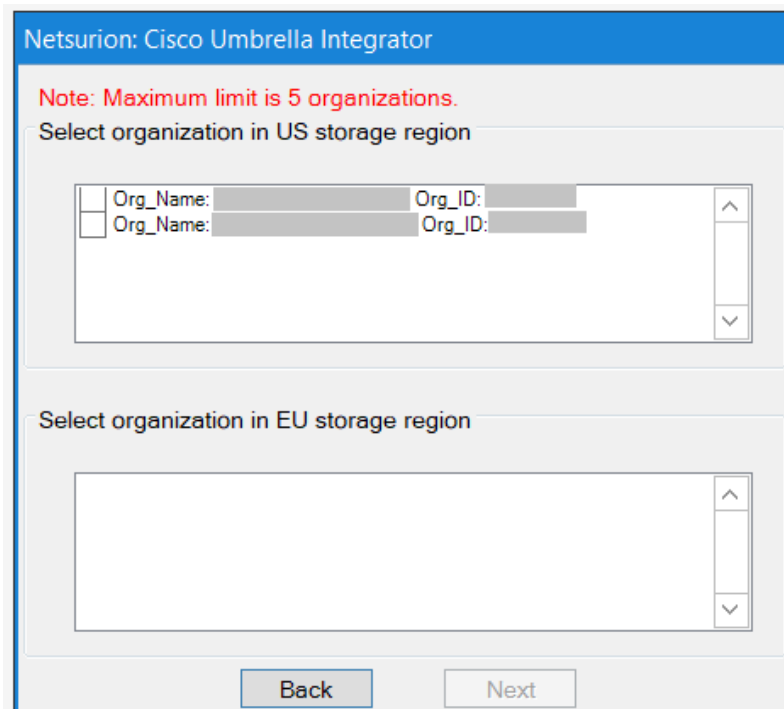
Customer Group: Test Connection

Cancel Save

- a. **Client Type:** Choose the **Client Type** as **MSP**.
 - b. Specify the Cisco Umbrella **API Key**, **Key Secret**.
2. After providing the necessary details, click the **Validate and Configure** button to verify the credentials and configure the Organization.



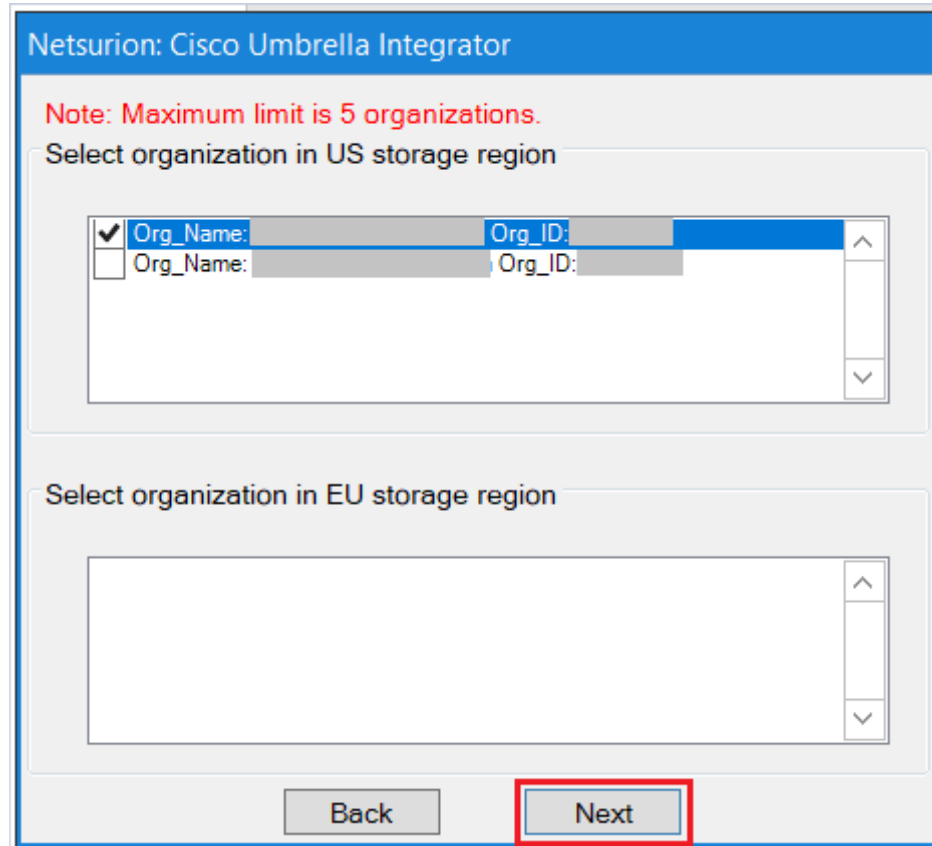
If the credentials are successfully validated, a window appears displaying the list of organization.



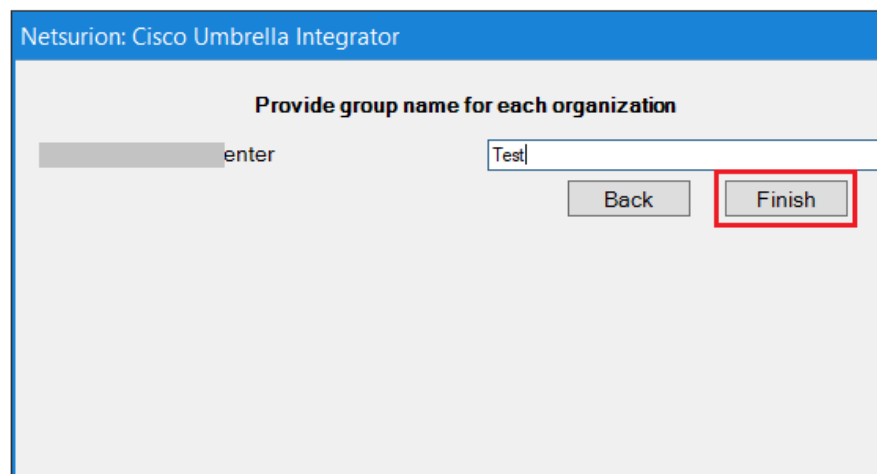
3. Select the organizations based on the storage region that need to be configured.

Note:

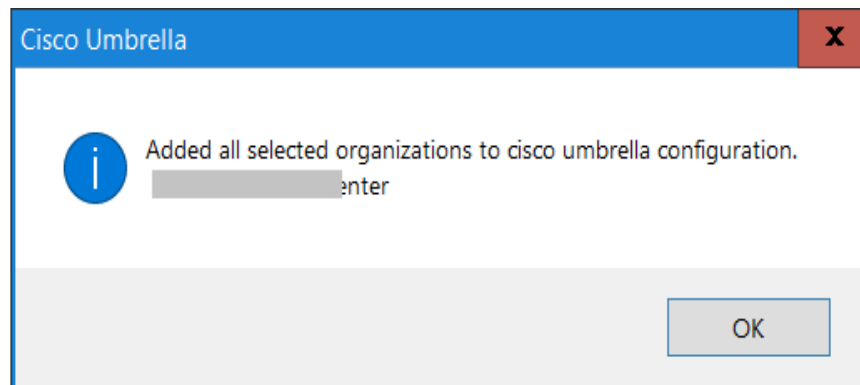
The maximum number of organizations that can be selected is limited to 5.



4. Provide the **customer group** name for each organization and click **Finish**.



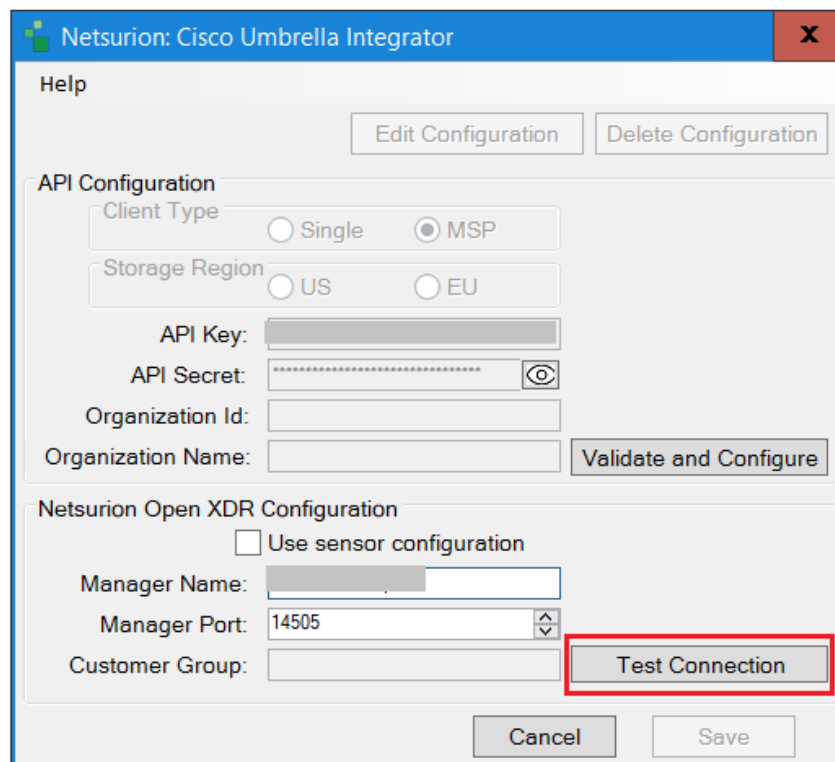
An Information window pops-up displaying *Added all selected organizations to cisco umbrella configuration.*



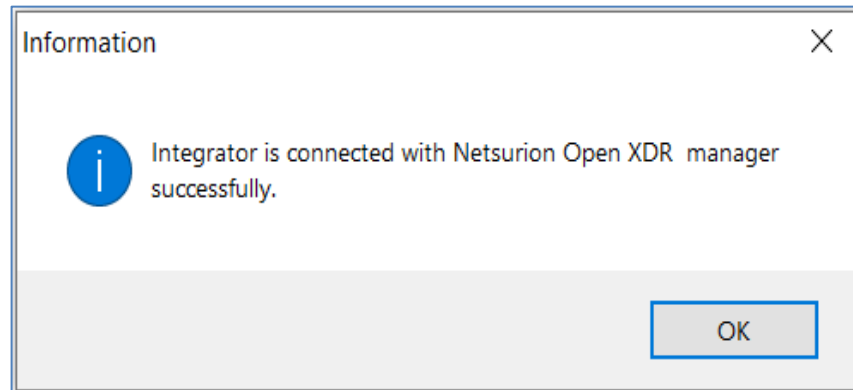
5. In the **Netsurion: Cisco Umbrella Integrator** > **Netsurion Open XDR Configuration** section, either provide the Manager details to send the logs to a particular Netsurion Open XDR or use the sensor configuration.

To provide the Manager details:

- Specify **Manager Name**, **Manager Port**, and **Customer Group**, and then click **Test Connection** to validate the details.

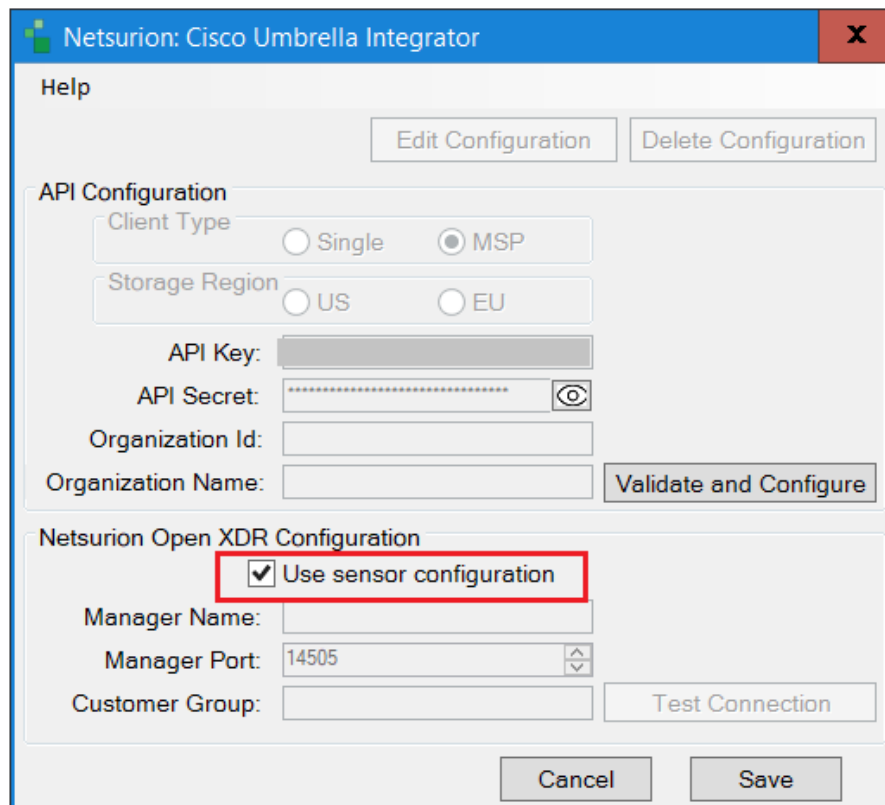


If the connection is validated successfully, an Information window pops-up stating '*Integrator is connected with Netsurion Open XDR manager successfully*'.



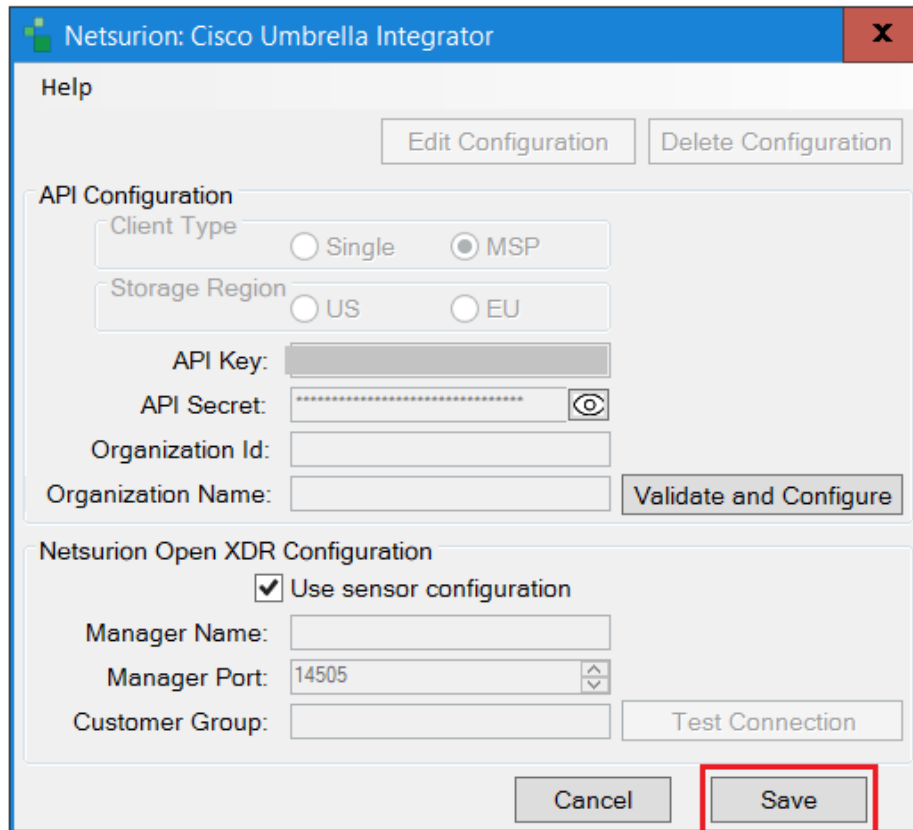
To use the Sensor configuration:

- Select the **Use sensor configuration** check box if you want to use the sensor configuration wherein the Netsurion Open XDR sensor is already installed in the system.



The image shows the 'Netsurion: Cisco Umbrella Integrator' configuration window. The window has a blue title bar with the Netsurion logo and the text 'Netsurion: Cisco Umbrella Integrator', and a red close button (X) on the right. The main area is divided into two sections. The top section is titled 'API Configuration' and contains several fields: 'Client Type' with radio buttons for 'Single' and 'MSP' (selected), 'Storage Region' with radio buttons for 'US' and 'EU', 'API Key' (password field), 'API Secret' (password field with a toggle icon), 'Organization Id' (text field), and 'Organization Name' (text field). There are buttons for 'Edit Configuration', 'Delete Configuration', and 'Validate and Configure'. The bottom section is titled 'Netsurion Open XDR Configuration' and contains: a checked checkbox labeled 'Use sensor configuration' (highlighted with a red rectangle), 'Manager Name' (text field), 'Manager Port' (spin box set to 14505), and 'Customer Group' (text field). There are buttons for 'Test Connection', 'Cancel', and 'Save'.

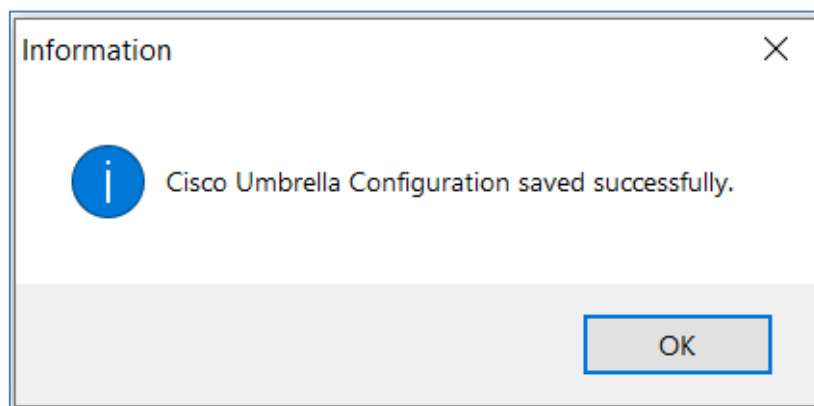
- After specifying the required details, click **Save** and the following information window pops-up stating '**Configuration saved successfully**'.



The image shows a configuration window titled "Netsurion: Cisco Umbrella Integrator". It contains several sections for configuration:

- Help**: Includes "Edit Configuration" and "Delete Configuration" buttons.
- API Configuration**:
 - Client Type**: Radio buttons for "Single" and "MSP" (selected).
 - Storage Region**: Radio buttons for "US" and "EU".
 - API Key**: A text input field.
 - API Secret**: A password input field with a visibility toggle icon.
 - Organization Id**: A text input field.
 - Organization Name**: A text input field.
 - Validate and Configure**: A button.
- Netsurion Open XDR Configuration**:
 - Use sensor configuration**: A checked checkbox.
 - Manager Name**: A text input field.
 - Manager Port**: A dropdown menu showing "14505".
 - Customer Group**: A text input field.
 - Test Connection**: A button.
- Buttons**: "Cancel" and "Save" buttons at the bottom right. The "Save" button is highlighted with a red rectangle.

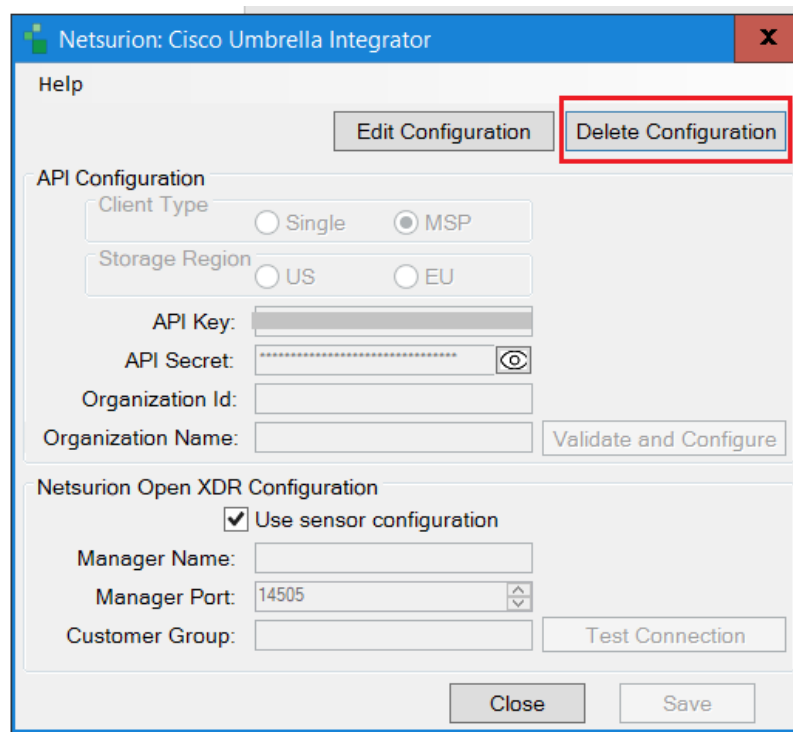
The integrator validates the details, retrieves the organization's information, and saves the configuration, resulting in the successful integration of Cisco Umbrella with Netsurion Open XDR.



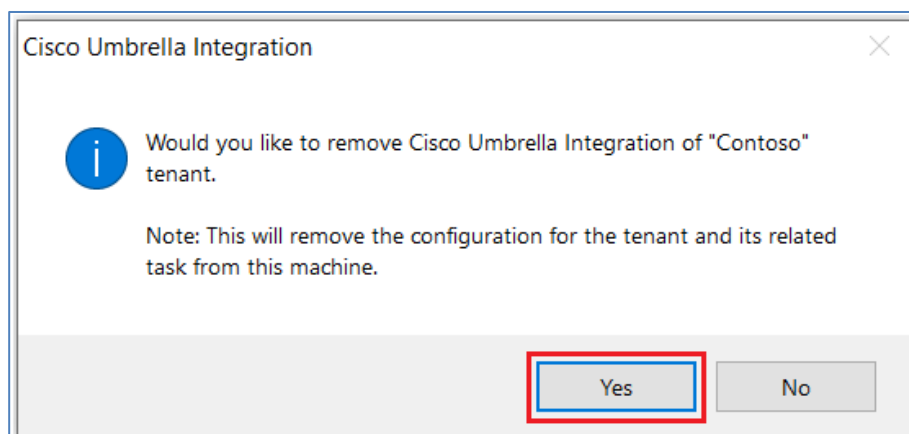
3.3 Deleting the Configuration of Cisco Umbrella

Perform the following steps in case you require to delete the existing configuration of the Cisco Umbrella integrator.

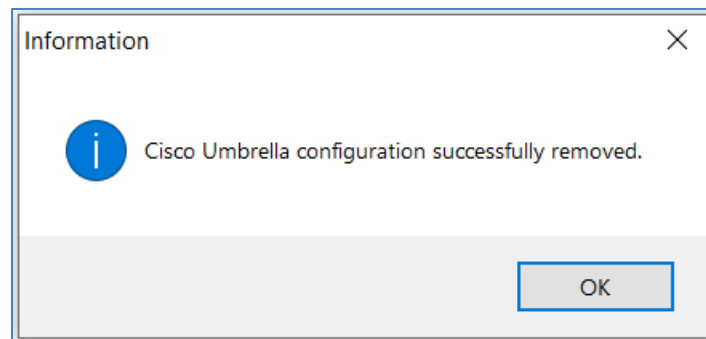
1. Run the Integrator to launch the configuration settings.
2. In the **Cisco Umbrella Integrator** window, click **Delete Configuration** to delete the existing configuration details.



3. An information window pops up to confirm the deletion of the existing configuration. Click **Yes** to proceed.



4. An Information window pops-up confirming the successful deletion. Click **OK**.



4 Data Source Integration (DSI) in Netsurion Open XDR

After the logs are received by Netsurion Open XDR, configure the Data Source Integration in Netsurion Open XDR.

The Data Source Integration package contains the following files for **Cisco Umbrella**.

- Categories_Cisco Umbrella.iscat
- Alerts_Cisco Umbrella.isalt
- Reports_Cisco Umbrella.etcrcx
- KO_Cisco Umbrella.etko
- Dashboards_Cisco Umbrella.etwd

Note

Refer the [How To Configure DSI](#) guide for the procedures to configure the above DSIs in Netsurion Open XDR.

4.1 Alerts

Name	Description
Cisco Umbrella: Threat has been blocked	Generated when an event, such as DNS, IP address, firewall, or proxy, is blocked by Cisco Umbrella.

4.2 Reports

Name	Description
Cisco Umbrella - Proxy activities	Provides a summary of all the proxy entries by Cisco Umbrella. It contains information such as the URL access by the user, URL category, threat name, timestamp of activity, threat score, action taken on the event, and more.
Cisco Umbrella - DNS activities	Provides a summary of all the DNS entries by Cisco Umbrella. It contains information such as the URL access by the user, URL category, timestamp of activity, action taken on the event, and more.
Cisco Umbrella - Firewall activities	Provides a summary of all the Firewall entries by Cisco Umbrella. It contains information such as the source IP address, destination IP address, source port, destination port, timestamp of activity, action taken on the event, and more.
Cisco Umbrella - IP activities	Provides a summary of all the IP address entries by Cisco Umbrella. It contains information such as the source IP address, destination IP address, source port, destination port, timestamp of activity, action taken on the event, and more.

4.3 Dashboards

Name	Description
Cisco Umbrella - Security activity by category	Displays the data about all security activities based on all different categories.
Cisco Umbrella - Security activity by source IP	Displays the data about all security activities based on source IP.

4.4 Saved Searches

Name	Description
Cisco Umbrella - Proxy activities	Provides a summary of all the proxy entries by Cisco Umbrella. It contains information such as the URL access by the user, URL category, threat name, timestamp of activity, threat score, action taken on the event, and more.
Cisco Umbrella - DNS activities	Provides a summary of all the DNS entries by Cisco Umbrella. It contains information such as the URL access by the user, URL category, timestamp of activity, action taken on the event, and

	more.
Cisco Umbrella - Firewall activities	<p>Provides a summary of all the Firewall entries by Cisco Umbrella.</p> <p>It contains information such as the source IP address, destination IP address, source port, destination port, timestamp of activity, action taken on the event, and more.</p>
Cisco Umbrella - IP activities	<p>Provides a summary of all the IP address entries by Cisco Umbrella.</p> <p>It contains information such as the source IP address, destination IP address, source port, destination port, timestamp of activity, action taken on the event, and more.</p>

About Netsurion

Netsurion® delivers an adaptive managed security solution that integrates our Open XDR platform with your existing security investments and technology stack, easily scaling to fit your business needs. Netsurion's 24x7 SOC operates as your trusted cybersecurity partner, working closely with your IT team to strengthen your cybersecurity posture. Our solution delivers managed threat protection so you can confidently focus on your core business.

Headquartered in Ft. Lauderdale, FL with a global team of security analysts and engineers, Netsurion is a leader in Managed Detection & Response (MXDR). Learn more at www.netsurion.com.

Contact Us

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Contact Numbers

Use the [form](#) to submit your technical support tickets. Or reach us directly at 1 (877) 333-1433

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