

Revised: August 18, 2025

# Hosted Edge Services for SD-Routing Devices, Release 17.18.x

## What's new

This table lists the features available with the current release:

**Table 1: What's new in this release**

Cisco IOS XE release	Feature name	Description	Supported platforms
Cisco IOS XE 17.18.1a	Hosted Edge Services for SD-Routing Devices	From Cisco IOS XE 17.18.1a release, Cisco Catalyst SD-WAN Manager supports deployment of IOx applications such as Cyber Vision, Thousand Eyes, UTD, and so on. The support to monitor these applications is introduced through Hosted Edge Services monitoring dashboard which offers a simplified user experience for overseeing IOx container applications across multiple devices. The Hosted Edge Services monitoring dashboard is introduced on Cisco Catalyst SD-WAN Manager version 20.18.x.	<ul style="list-style-type: none"> <li>• Cisco Catalyst 8000V Edge Software</li> <li>• Cisco Catalyst 8500 Series Edge Platforms</li> <li>• Cisco Catalyst 8300 Series Edge Platforms</li> <li>• Cisco 4000 Integrated Services Router</li> <li>• Cisco Catalyst 8200 Series Edge Platforms</li> <li>• Cisco 1000 Series Integrated Services Routers</li> <li>• Cisco ASR 1000 Series Aggregation Services Routers</li> </ul>

## Hosted Edge Services for SD-Routing devices

Cisco Catalyst SD-WAN Manager supports the deployment of IOx applications, such as Cyber Vision, Thousand Eyes, UTD, and third-party custom applications, on autonomous devices running Cisco IOS XE 17.18.1a image or later.

Monitoring support for these applications is provided through the Hosted Edge Services dashboard in Cisco Catalyst SD-WAN Manager version 20.18.x. This dashboard offers a simplified user experience for managing IOx container applications across multiple devices.

The Hosted Edge Services dashboard allows you to perform actions such as:

- Manage IOx applications like Cyber Vision, Secure Equipment Access, Thousand Eyes, Unified Thread Detection, and custom third-party IOx applications.
- Monitor resources (CPU, memory, disk space)
- Maintenance (start or stop the IOx container applications)

For more information about integrations, see [Cisco Catalyst SD-WAN Integrations](#) to understand how Cyber Vision, Secure Equipment Access, and third-party applications integrate with Cisco SD-WAN Manager.

## Prerequisites for monitoring Hosted Edge Services

The following conditions must be met before you can onboard a device and deploy applications using Hosted Edge Services:

- The device is registered using a Cisco Smart Account. (For instructions, see [Cisco Smart Account documentation](#).)
- The device is onboarded using Cisco Catalyst SD-WAN Manager with the SD-Routing solution. (See [Onboard Routing Devices to Cisco SD-WAN Manager](#) for more information.)
- You have access to [Cisco Software Central](#) for device and application management.
- The device must be onboarded and the application must be deployed using the standard configuration deployment approach. This page is intended for monitoring applications hosted at scale.
- The Hosted Edge Services page displays all IOx-based container applications and supports both single-tenant and multi-tenancy environments.

## Monitoring Hosted Edge Services

You can monitor hosted edge services (IOx container applications) using the Catalyst SD-WAN Manager through different dashboard views.

### Devices dashboard

To enable and view the overall health of hosted edge services (IOx container applications), you can use a customizable widget that displays the site and device-level edge service health.

To enable and view the resource usage health:

**Step 1** From the Cisco Catalyst SD-WAN Manager menu, choose **Monitor > Devices**.

**Step 2** Click the **Settings** icon (located at the far right corner of the dashboard).

**Step 3** Enable the toggle for **Edge services resource usage health**.

The widget exhibits the health status of hosted edge services (IOx container applications) based on CPU, memory, and disk space usage.

**Table 2: Health status definitions**

Health status	Description
Good	The hosted edge services like CPU, memory, or disk space resource usage is less than 50 percent of the allocated resources.
Fair	The hosted edge service like CPU, memory, or disk space resource usage lies between 50 and 75 percent of the allocated resources.

Health status	Description
Poor	The hosted edge services like CPU, memory, or disk space resource usage is greater than 75 percent of the allocated resources.



**Note**

All resource usage health statuses relate only to the individual hosted edge service (IOx container application), not to total device or overall network resource usage.

## Hosted Edge Services dashboard–Scale view

This dashboard displays all hosted edge services (IOx container applications) installed across all devices and sites.

To view all hosted edge services:

From the Cisco Catalyst SD-WAN Manager menu, choose **Monitor > Hosted Edge Services**.

Field	Description
Hosted Edge Service Name	Name of a hosted edge service (IOx container application hosted on the Cisco IOS XE devices).
Edge Service Author	Displays the author name that is defined in the package.yaml file of the hosted edge service (IOx container application).
Number of Sites Installed	Total number of sites where the hosted edge service (IOx container application) is installed.
Number of Devices Installed	Total number of devices on which the hosted edge service (IOx container application) is installed.

## Hosted Edge Services–Individual view

This dashboard provides details for each hosted edge service (IOx container application) and the devices where it is installed.

To access and interact with individual hosted edge services:

**Step 1** From the Cisco Catalyst SD-WAN Manager menu, choose **Monitor > Hosted Edge Services**.

**Step 2** Select a hosted edge service (IOx container application) to see the list of devices where it is installed.



**Note**

Additionally, you can filter network devices by the edge service state mentioned under **Hosted edge service (IOx) states**.

Field	Description
Network device	Displays the name of the network device on which the selected instance of hosted edge service (IOx container application) is running.

Field	Description
Site name	Logical identifier for the device's operational group in Cisco Catalyst SD-WAN Manager.
Resource usage health	This reflects only the resource consumed by the hosted edge service (IOx container application). It does not reflect the total resource usage of the device. The health status displays either Good, Fair, or Poor. For more information, see the <i>health status definitions</i> .
Edge service state	State of the hosted edge service (IOx container application) on the Cisco IOS XE device: <ul style="list-style-type: none"> <li>• Stopped: Displays the hosted edge service (IOx container application) has stopped and is no longer operational on the device.</li> <li>• Running: Displays the hosted edge service (IOx container application) is accessible and operational on the device.</li> <li>• Deployed: Displays the hosted edge service (IOx container application) is deployed to the device and the installation is successful.</li> <li>• Activated: Displays that the network configurations are successfully added to the hosted edge service (IOx container application) and are now active.</li> </ul>
Edge service version	The hosted edge service (IOx container application) version running on the device as defined in the package.yaml file.
Last update	Displays the timestamp when device metrics were last updated (to trigger the metrics, use the <b>Refresh Metrics</b> button).

**Step 3** Click the **ellipsis ...** next to a device to perform these actions:

- Start edge service: Starts the service if it is already stopped.
- Stop edge service: Stops the service if it is in the running state.
- View edge service info: When you select this option, you see the **Hosted edge service (IOx) info** pane which shows the hosted edge service information.

Field	Description
Resource usage	Current health status along with resource consumption of CPU, RAM, and disk space.

Field	Description
Edge service details	Current IOx state, hosted edge service version, and last data fetch details. Use the Stop edge service option to stop the hosted edge service instance on the device. Click <b>Refresh device metrics</b> to manually update the device metrics for the selected device.
Package information	Hosted edge service (IOx container application) name, CPU architecture, and author information.



**Tip**

You can select multiple checkboxes to start or stop edge services on several devices at once.

## Hosted Edge Services–Device level 360 view

This view provides a comprehensive status for all edge services on a specific device.

To access the device-level 360 view:

- Step 1** From the Cisco Catalyst SD-WAN Manager menu, choose **Monitor > Devices** and select the **device name**.
- Step 2** In the System Status pane, scroll down to **Hosted Edge Services** and click **App Status Info**. You can view all the application details in the **Associated hosted edge services** page.

Field	Description
Edge service name	Name of a hosted edge service (IOx container application hosted on the Cisco IOS XE devices).
Edge service author	Displays the author name that is defined in the package.yaml file of the hosted edge service (IOx container application).
Edge service version	The IOx container application version running on the device as defined in the package.yaml file.
Resource usage health	Health status (see Health Status table above).
Edge service state	Displays the IOx state of the hosted edge service: Stopped, Running, Deployed, or Activated
CPU usage	Displays CPU usage in percentage.
Disk space usage	Displays disk space usage in percentage.
Memory usage	Displays memory usage in percentage.

- Step 3** To start or stop a hosted edge service (IOx container applications), click the **ellipsis ...** next to the service and select **Start edge service** or **Stop edge service**.

**Note**

Starting or stopping a hosted edge service (IOx container application) depends on its current IOx state on the IOS XE device, such as:

- Running State: Only **Stop** operation can be performed.
- Stopped State: Only **Start** operation can be performed.
- Deployed or Activated States: No operations (Start or Stop) can be performed.