



Cisco SD-Branch ThousandEyes Support

Table 1: Feature History

Feature Name	Release Information	Description
Cisco SD-Branch ThousandEyes Support	Cisco SD-Branch Release 20.15.1	This feature adds support to use Cisco ThousandEyes as a container within Cisco SD-WAN Manager.

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Information About Cisco SD-Branch ThousandEyes Support

Cisco SD-WAN Manager supports a preintegrated solution that allows deploying ThousandEyes enterprise agent as a container on Cisco NFVIS devices. Experience ThousandEyes network monitoring and testing capabilities directly on your Cisco SD-Branch network infrastructure. The feature provides visibility into the performance of the underlying network infrastructure.

Benefits of Cisco SD-Branch ThousandEyes Support

- Gain complete visibility into your network performance, including network infrastructure, cloud providers, WAN links, and internal data center networks within Cisco NFVIS.
- Reduce Mean Time To Repair (MTTR) for network issues, improve network reliability, and optimize application performance.

Prerequisites for Cisco SD-Branch ThousandEyes Support

- Ensure that the minimum software version for Cisco NFVIS devices is Cisco NFVIS Release 4.15.1 and your Cisco SD-WAN Manager is running Cisco Catalyst SD-WAN Manager Release 20.15.1.
- You require a minimum of two CPU cores, memory of 2048 MB, and a disk size of 8192 MB to enable a ThousandEyes container.

Restrictions for Cisco SD-Branch ThousandEyes Support

- Only a .tar container image file with VNF type selected as **OTHER** is supported.
- Only the 0.16.21-1709162383-agent version is supported.
- Add **TEAGENT_ACCOUNT_TOKEN** and **TEAGENT_INET** to the bootstrap configuration file to deploy the ThousandEyes container.
- Monitoring charts aren't supported for Cisco ThousandEyes container.

Configure Cisco SD-Branch ThousandEyes Support

Before You Begin

Download the latest ThousandEyes container image file from the [docker hub](#). Upload the ThousandEyes container image file to the Cisco SD-WAN Manager and register the image. For more information on uploading and registering the image files, see [Register Remote Server](#) and [Upload VNF Images](#).

1. From the Cisco SD-WAN Manager menu, choose **Maintenance > Software Repository > Remote Server > Add Remote Server**.
2. Add the remote server details and click **Add**.
3. Navigate to the **Virtual Images** tab and click **Add New Virtual Image**.
4. Add the virtual image details and in the **Remote server name** drop-down list, choose the remote server that you just added. Click **Save**.
5. In the **Select service type** drop-down list, choose **OTHER**.

Deploy ThousandEyes

1. From the Cisco SD-WAN Manager menu, choose **Workflows > Workflow Library > Create NFV Configuration Group**.
2. Follow the on-screen instructions to complete the workflow.
3. In the **Add VNF Services** step, choose the **Custom** VNF services topology.

4. In the **Primary Image** drop-down box, choose the virtual image that you added earlier.
5. Configure the **Mount point inside VNF** using the bootstrap configs.

Here's a sample bootstrap configuration:

```
{
  "env_variables" : {
    "TEAGENT_ACCOUNT_TOKEN" : "${TEAGENT_ACCOUNT_TOKEN}",
    "TEAGENT_INET" : "${TEAGENT_INET}",
  }
}
```



Note The name of the mount point is **bootstrap_config**

6. (Optional) The ThousandEyes container requires volumes to mount for the agent logs. These volumes are created automatically within the device with the required minimum size of 320MB, if the volume configurations are not present in the config group.

Here are some sample volumes and sizes:

Volume 1: mount path: /var/lib/te-agent, size: 120

Volume 2: mount path: /var/log/agent, size: 320

7. Click **Next**.
8. Associate this configuration group with the device and deploy. For more information, see [Manage Cisco NFVIS Devices Using NFV Config Group Workflow](#).

You've successfully deployed Cisco ThousandEyes as a container on Cisco NFVIS devices using Cisco SD-WAN Manager. The **Enterprise Agents** section within the ThousandEyes Dashboard displays the status of the enterprise agents deployed on Cisco NFVIS devices. For more information see, [ThousandEyes Documentation](#).

Monitor Cisco SD-Branch ThousandEyes Support

1. From the Cisco SD-WAN Manager menu, choose **Monitor > Devices**.
2. From the list of devices, select the Cisco NFVIS device to monitor the system status, device health and interface packet statistics. View the CPU utilization for the guest VNF as well.
3. You can start, stop, or restart ThousandEyes container.



Note Monitoring charts for ThousandEyes container isn't supported.
