

Onboarding ThousandEyes Agent and Onboarding Tests

- Feature History for Simplified Onboarding of Cisco ThousandEyes Agent, on page 1
- Simplified workflow for onboarding Cisco ThousandEyes agents and configuring tests, on page 1
- Create an IP Pool for the Cisco ThousandEyes Agents, on page 2
- Prerequisites for simplified workflow, on page 2
- Restrictions for simplified workflow, on page 3
- Configure Cisco ThousandEyes agent and tests using simplified workflow, on page 4
- Monitor onboarded Cisco ThousandEyes agents and configured tests, on page 5
- Troubleshoot Cisco ThousandEyes agent on edge device, on page 5

Feature History for Simplified Onboarding of Cisco ThousandEyes Agent

This table describes the developments of this feature, by release.

Table 1: Feature History

Feature Name	Release Information	Feature Description
Simplified Workflow for Onboarding Cisco ThousandEyes Agent and Configuring Tests	Cisco IOS XE Catalyst SD-WAN Release 17.16.1a Cisco Catalyst SD-WAN Manager Release 20.16.1	A simplified workflow to easily onboard Cisco ThousandEyes agent and configure tests using Cisco SD-WAN Manager.

Simplified workflow for onboarding Cisco ThousandEyes agents and configuring tests

The workflow simplifies the process of onboarding Cisco ThousandEyes agents and configuration of tests in SD-WAN Manager. Using the simplified workflow, you can easily onboard Cisco ThousandEyes agents and

configure application monitoring tests directly from Cisco SD-WAN Manager in a few steps. The streamlined workflow involves these steps:

- Establish a connection to the Cisco ThousandEyes platform through SD-WAN Manager,
- Configure tests in Cisco ThousandEyes directly from SD-WAN Manager,
- Choose applications, sites, and devices for testing and configure the necessary parameters in SD-WAN Manager, and
- Monitor the agents and tests from the **ThousandEyes Monitoring** dashboard in SD-WAN Manager.

Create an IP Pool for the Cisco ThousandEyes Agents

This section describes the procedure of onboarding Cisco ThousandEyes agent

Procedure

Step 1 From the menu, choose **Configuration** > **Network Hierarchy**.

Note
The page displays the site pool and region pool for the Global node.

Step 2 Click **Pools**.

Step 3 Click **Add Pool**.

Step 4 In the **Pool Name** field, enter a name for the pool.

Step 5 In the **Pool Description** field, enter a description of the pool.

Step 6 From the **Pool Type** drop-down list, choose **ThousandEyes**.

Step 7 In the **IP Subnet*** field, enter an IP address.

Step 8 In the **Prefix Length*** field, enter the prefix length of the system IP pool.

Step 9 Click **Add**.

What to do next

- Monitor the status of agents and enable or disable agents in the **ThousandEyes Monitoring** dashboard in the Cisco SD-WAN Manager.
- Launch **ThousandEyes Monitoring** dashboard to view test results.

Prerequisites for simplified workflow

You must complete the tasks in this section before initiating the simplified workflow.

Table 2: Tasks Before Running the Simplified Workflow

Configuration Task	Information
Deploy Cisco IOS XE Catalyst SD-WAN devices using the configuration group.	Refer to Deploy Devices Using the Deploy Configuration Group Workflow.
Upload Cisco ThousandEyes Enterprise agent software.	• To upload software on the SD-WAN Manager software repository, refer to Upload the Cisco ThousandEyes Enterprise Agent software to SD-WAN Manager. • To add virtual images from a remote server, refer to the Add Virtual Images to the Repository section in the *Cisco Catalyst SD-WAN Monitor and Maintain Configuration Guide*.
Create an IP pool in the global node of Network Hierarchy Manager. When deploying Cisco ThousandEyes agent through the workflow, the Virtual Port Group Interface IP address contains this IP pool.	Refer to Create an IP Pool for the Cisco ThousandEyes Agents, on page 2.
Add IPv4 DNS server details in the Transport VPN feature of the Configuration Group associated with the device.	Refer to DNS.

Restrictions for simplified workflow

Minimum supported releases: Cisco Catalyst SD-WAN Manager Release 20.16.1 and Cisco IOS XE Catalyst SD-WAN Release 17.16.1a

Editing limitations for deployed ThousandEyes Agent Sites

The workflow does not support editing tests or updating agent parameters for sites with deployed Cisco ThousandEyes agents.

Workflow only supports devices with configuration groups

The simplified workflow supports only devices that are associated with configuration groups.

Workflow only supports one device in a site

The simplified workflow supports only devices associated with configuration groups. In the workflow, you can select only one device in a site to deploy the Cisco ThousandEyes Agent and configure tests associated with it. To deploy Cisco ThousandEyes Agent on multiple devices in a site, use the Configuration Group method, see Using Configuration Groups.

Configure Cisco ThousandEyes agent and tests using simplified workflow

This section describes the procedure of onboarding Cisco ThousandEyes agents and configuring monitoring tests directly from the SD-WAN Manager.

Before you begin

Minimum supported release: Cisco Catalyst SD-WAN Manager Release 20.16.1 and Cisco IOS XE Catalyst SD-WAN Release 17.16.1a

- Ensure the following before initiating the simplified workflow:
  - You have a Cisco ThousandEyes account before using the simplified workflow to configure a Cisco ThousandEyes agent in Cisco SD-WAN Manager.
  - You must be a user with the Organization Admin role to access the Cisco ThousandEyes account.
- Create an IP pool in the global node of Network Hierarchy Manager, see Create an IP Pool for the Cisco ThousandEyes Agents, on page 2.

Procedure

Step 1 From the Cisco SD-WAN Manager menu, choose **Workflows** > **Workflow Library**.

Step 2 Start the **Configure ThousandEyes** workflow.

Step 3 Read the terms and conditions. After accepting the terms and conditions, click **Connect ThousandEyes** to start the workflow.

Step 4 When the Cisco ThousandEyes portal opens, log in to your account using your login credentials. The page redirects to Cisco SD-WAN Manager.

Step 5 Follow the instructions provided in the workflow.

Note

- In the workflow, select all sites associated with a specific Configuration Group simultaneously. This ensures that the Configuration Group with Cisco ThousandEyes agent applies to all sites associated with the Configuration Group.
- The time required to onboard Cisco ThousandEyes agent and configure tests varies based on the size of your network.

What to do next

- Monitor the status of agents and enable or disable agents in the **ThousandEyes Monitoring** dashboard in the Cisco SD-WAN Manager.
- Launch **ThousandEyes Monitoring** dashboard to view test results.

Monitor onboarded Cisco ThousandEyes agents and configured tests

You can monitor the status of Cisco ThousandEyes agents and configured tests in the SD-WAN Manager.

Before you begin

Ensure you are on release Cisco Catalyst SD-WAN Manager Release 20.16.1 and Cisco IOS XE Catalyst SD-WAN Release 17.16.1a.

Procedure

Step 1 To monitor the status of Cisco ThousandEyes agents and configured tests in the SD-WAN Manager monitoring dashboard, navigate to **Tools** > **ThousandEyes Monitoring**.

You can view the online, offline, and disabled agents, and launch Cisco ThousandEyes from the dashboard.

Step 2 In the monitoring dashboard, review these sections:

- **Tests**: View information about the tests configured using the simplified workflow.
- **Agents**: View information about the status of Cisco ThousandEyes agents configured using the simplified workflow. It also provides a list of configured devices and sites for the test with the option to enable, disable, or delete a Cisco ThousandEyes agent.

Troubleshoot Cisco ThousandEyes agent on edge device

Before you begin

Ensure you are on release Cisco Catalyst SD-WAN Manager Release 20.16.1 and Cisco IOS XE Catalyst SD-WAN Release 17.16.1a.

Procedure

Step 1 Review these log files in SD-WAN Manager for error messages or relevant information: /var/log/nms/vmanage-server.log and /var/log/nms/vmanage-server-deviceconfig-template.log.

Step 2 Examine the audit logs to determine if the ThousandEyes test was posted or it failed.