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## **Software Image Management on SD-Routing Devices**

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# Preface

This preface describes the audience, organization, and conventions of this document. It also provides information on how to obtain other documentation.

This preface includes the following sections:

• Reference Preface Map here, on page v

# **Reference Preface Map here**

Preface

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CHAPTER

# Information About the Software Upgrade Workflow

Using this workflow, you can download and upgrade software images on the supported Cisco SD-Routing devices with an option to schedule the upgrade process at your convenience. The workflow also shows the status of the software upgrade. This workflow provides you to perform the software **Download and Upgrade**.

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- Prerequisites for Using the Software Upgrade Workflow, on page 1
- Access the Software Upgrade Workflow, on page 1

# **Benefits of Software Upgrade Workflow**

- The software upgrade workflow helps you prevent various device software upgrade failures by displaying device upgrade status. For example, if the upgrade process fails at any particular stage, the workflow flags it as **failed**.
- With this workflow, you can choose to download, install, and activate the new software image in discrete steps or in a single step. You can schedule the workflow during the specified date and time.

# Prerequisites for Using the Software Upgrade Workflow

Ensure that the Cisco SD-Routing devices are running the required software versions for using the software upgrade workflow feature.

# Access the Software Upgrade Workflow

#### **Before You Begin**

To check if there is an in-progress software upgrade workflow:

From the Cisco SD-WAN Manager toolbar, click the **Task-list** icon. Cisco SD-WAN Manager displays a list of all running tasks along with the total number of successes and failures.

1. In the Cisco SD-WAN Manager menu, click Workflows > Workflow Library.

Note In the Cisco SD-WAN Manager, the Workflow Library is titled Launch Workflows.

- 2. Start a new software upgrade workflow: Library > Software Upgrade.
- 3. Follow the on-screen instructions to start a new software upgrade workflow.



Note Click Exit to exit from an in-progress software upgrade workflow. You can resume the in-progress workflow at your convenience.



**Note** In a multi-node cluster setup, if the control connection switches to a different node during a SD-Routing device upgrade from Cisco SD-WAN Manager, the upgrade may be impacted due to NetConf session timeout. The SD-Routing device then establishes control connection to a different node. You need to re-trigger the upgrade activity.

#### Verify the Status of the Software Upgrade Workflow

To check the software upgrade workflow status:

1. From the Cisco SD-WAN Manager toolbar, click the Task-list icon.

Cisco SD-WAN Manager displays a list of all running tasks along with the total number of successes and failures.

2. Click the + icon to view the details of a task.

Cisco SD-WAN Manager opens a pane displaying the status of the task and details of the SD-Routing device on which the task was performed.

### Schedule Software Upgrade Workflow for SD-Routing Devices

The scheduler in the software upgrade workflow enables you to schedule workflows at your convenience and avoid any downtime due to the software upgrade process. A scheduler enables you to schedule the upgrade workflow either **Now** or **Later**. If you choose to schedule an upgrade for a later time, you can enter the **Start Date**, **Start time**, and **Select Timezone**.

### Scheduling Software Upgrade Workflow

Use the following steps to schedule a software upgrade workflow:

Before you begin

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

OR

	Click Workflows > Popular Workflows > Software Upgrade.		
Step 2	Start a new software upgrade workflow: Workflow Library > Software Upgrade.		
	OR		
	Alternatively, resume an in-progress software upgrade workflow: In-progress > Software Upgrade.		
Step 3	In the Scheduler section, choose Later.		
	Note	Use the <b>Now</b> option to perform the software upgrade for the selected devices immediately.	
Step 4	Choose the Start Date, Start Time, and Select Timezone.		
	Note	Start date and time should always be greater than the Cisco SD-WAN Manager server date and time.	
Step 5 Click Next.			
	The software upgrade workflow is scheduled.		

### Cancel the Scheduled Software Upgrade Workflow for SD-Routing

To cancel a scheduled software upgrade workflow,

- 1. From the Cisco SD-WAN Manager menu, click Maintenance > Software Upgrade.
- 2. Choose the SD-Routing device that is scheduled for a software upgrade from the list of devices.
- 3. Click Cancel Software Upgrade.

#### Delete a Downloaded Software Images on the SD-Routing Devices

To delete downloaded software images on the SD-Routing devices:

- 1. From the Cisco SD-WAN Manager menu, choose **Maintenance** > **Software Upgrade**.
- 2. Click WAN Edge.
- 3. Click Delete Downloaded Images
- 4. In the **Delete Downloaded Images** dialogue box, choose the appropriate image or images to delete.
- 5. Click Delete.

#### Feature Information for Schedule Software Upgrade on SD-Routing Devices

The following table provides release information about the feature or features described in this module. This table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to https://cfnng.cisco.com/. An account on Cisco.com is not required.

Feature Name	Releases	Feature Information
Schedule Software Upgrade on SD-Routing Devices	Cisco IOS XE Release 17.13.1a	With this feature, you can schedule software image upgrade on Cisco SD-Routing devices. This allows you to avoid any downtime due to the software upgrade process.

#### Table 1: Feature Information for Schedule Software Upgrade on SD-Routing Devices