



# Cisco Catalyst SD-WAN Control Components Upgrade Workflow

**Table 1: Feature History**

Feature Name	Release Information	Description
Cisco SD-WAN Control Components Upgrade Workflow	Cisco Catalyst SD-WAN Control Components Release 20.18.1	<p>With the guided workflow you can upgrade the software image of all the Cisco SD-WAN Control Components.</p> <p>It also allows you to apply patch release upgrades to Cisco SD-WAN Control Components, for bug fixes and minor improvements.</p>

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## Information About Cisco Catalyst SD-WAN Control Components Upgrade Workflow

Minimum Supported Version: Cisco Catalyst SD-WAN Control Components Release 20.18.1

A Cisco SD-WAN Control Components upgrade workflow is a process that:

- integrates the software image upgrade of the Cisco SD-WAN Control Components—Cisco SD-WAN Manager, Cisco SD-WAN Controller, and Cisco SD-WAN Validator, and
- reduces the complexity of upgrading each Cisco SD-WAN Control Component separately.

The workflow upgrades the Cisco SD-WAN Control Components in the following sequence:

1. Cisco SD-WAN Manager
2. Cisco SD-WAN Validator
3. Cisco SD-WAN Controller

In the workflow, you can download software images from the [Cisco Software Download](#) repository and upload software images from a local drive.

During the upgrade process, you can monitor the progress for each control component separately.

### Information About Patch Release Upgrade For Control Components

A patch release upgrade is a targeted update that addresses specific bugs and introduces minor improvements to the software. It is designed to complement the existing software.

You can apply a patch release upgrade only to its compatible software release version. For example, if your software version is 20.17.1, you can apply patches designed only for 20.17.1. A patch release image is named as a 6-tuple, with the last digit indicating the patch number (e.g., 20.17.1.0.0.1). It is applied on a compatible base 5-tuple release version (e.g., 20.17.1.0.0)

## Benefits of Using Cisco Catalyst SD-WAN Control Components Upgrade Workflow

Minimum Supported Version: Cisco Catalyst SD-WAN Control Components Release 20.18.1

- Streamlined upgrade process: All Cisco SD-WAN Control Components are upgraded in the correct sequence, reducing the risk of errors.
- Progress monitoring: With better visibility into the progress of each control component's upgrade, you can track and manage the upgrade process more efficiently.
- Pre-check and post-check tasks: The workflow includes a list of validation tasks that run before and after the upgrade. This flexibility ensures that the upgrade completes successfully.
- Flexibility in software image selection: You can either use the recommended image versions or choose a compatible custom image. For software compatibility information, see [Cisco Catalyst SD-WAN Control Components Compatibility Matrix and Recommended Computing Resources](#)
- Operational efficiency: Implementing patch release upgrades simplifies the process of fixing minor issues, thereby minimizing operational overhead in addressing minor problems.

## Prerequisite for Cisco Catalyst SD-WAN Control Components Upgrade Workflow

Minimum Supported Version: Cisco Catalyst SD-WAN Control Components Release 20.18.1

You must ensure that the Cisco SD-WAN Control Components are running on the compatible software versions before using the Control Components Upgrade workflow.

# Restrictions for Cisco Catalyst SD-WAN Control Components Upgrade Workflow

Minimum Supported Version: Cisco Catalyst SD-WAN Control Components Release 20.18.1

- You cannot select or deselect specific Cisco SD-WAN Control Components for upgrade.
- The workflow does not support older versions of Cisco SD-WAN Control Components.

## Restrictions for Patch Release Upgrade

You cannot uninstall a patch release upgrade, after you apply it to the Cisco SD-WAN Control Components. We recommend taking a VM snapshot before upgrading.

# Upgrade Cisco Catalyst SD-WAN Control Components Using a Workflow

## Before you begin

Minimum Supported Version: Cisco Catalyst SD-WAN Control Components Release 20.18.1

If you are planning to upload software images from your local drive, ensure all the appropriate software image files for Cisco SD-WAN Control Components are available for upload. To ensure that the current device versions support the new software image version, see [Cisco SD-WAN Compatibility Matrix](#)

## Procedure

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- Step 1** In the Cisco SD-WAN Manager menu, click **Workflows > Workflow Library**.
- a) Start a **Control Components Upgrade** workflow.
- Step 2** Choose the type of upgrade:
- Upgrade: To install and activate all Cisco SD-WAN Control Components.
  - Patch: To install and activate patch image to Cisco SD-WAN Control Components.
- Step 3** Upload the appropriate software images either from the local drive or download the software images directly from the [Cisco Software Download](#) repository within the Cisco SD-WAN Manager workflow by logging in with your Cisco credentials.
- Step 4** Follow the on-screen instructions to continue with the Cisco SD-WAN Control Components upgrade.
- Note**
- Click **Exit** to exit from an in-progress upgrade workflow. You can resume the in-progress workflow at your convenience.
  - You cannot cancel the Cisco SD-WAN Control Components upgrade process after initializing it.

**Note**

Click **View upgrade status** to monitor the progress of software upgrade for each control component during the upgrade process.

Alternatively, you can navigate to **Maintenance > Software Upgrade > Control Components** and click **View upgrade status** to monitor the progress of software upgrade.

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**What to do next**

Verify the success or failure of the Cisco SD-WAN Control Components upgrade or patch upgrade by reviewing the task logs. For more information about viewing task logs, see [View Log of Software Upgrade Activities](#).

## Scheduling Cisco Catalyst SD-WAN Control Components Upgrade Using Workflow

Use the following steps to schedule a Cisco SD-WAN Control Components upgrade workflow.

**Procedure**

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- Step 1** In the Cisco SD-WAN Manager menu, click **Workflows > Workflow Library**
- Step 2** Start a new software upgrade workflow: **Workflow Library > Software Upgrade**.
- Step 3** In the **Scheduler** section, select **Later**.

**Note**

Use the **Now** option to perform the software upgrade for the selected devices immediately.

- Step 4** Select the **Start Date**, **Start Time**, and **Select Timezone**.
- Step 5** Click **Next**.

**Note**

If an upgrade fails, Cisco SD-WAN Manager initiates a rollback.

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## Cancel Cisco Catalyst SD-WAN Control Components Upgrade

Use the following steps to cancel a Cisco Catalyst SD-WAN Control Components upgrade:

**Procedure**

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- Step 1** In the Cisco SD-WAN Manager menu, click **Maintenance > Software Upgrade**.

**Step 2** Choose the device that is scheduled for a software upgrade from the list of devices.

**Step 3** Click **Cancel Software Upgrade**.

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