Start Your Catalyst SD-WAN Upgrade Journey Here

Contents

Introduction

This document describes a comprehensive resource that consolidates key links and guidance to simplify and support the Catalyst SD-WAN upgrade process.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Cisco Software-defined Wide Area Network (SD-WAN)
- Cisco Software Central
- Download the Controllers software fromsoftware.cisco.com

Components Used

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Upgrading Catalyst SD-WAN Manager Workflow

This workflow outlines the procedures for upgrading Cisco SD-WAN Manager across different software versions, covering both Manager Cluster and Standalone configurations with or without Disaster Recovery (DR) enabled.
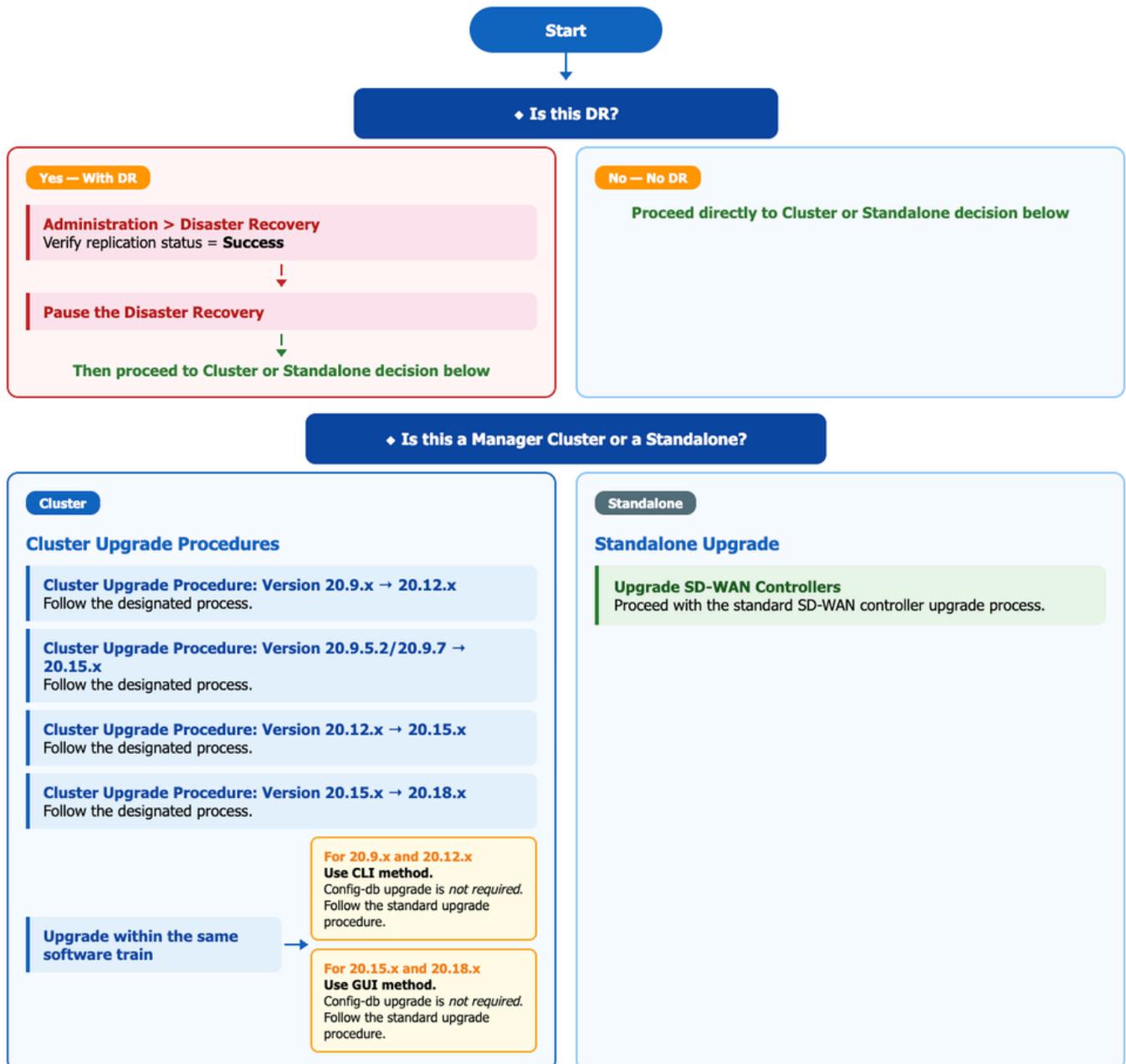
Essential Information Before Upgrading Catalyst SD-WAN

Before beginning the upgrade process, it is crucial to gather the next key information to ensure a smooth and successful Catalyst SD-WAN upgrade:

1. Is your vManage deployed as a standalone instance or a vManage cluster?
2. Is Disaster Recovery enabled on your vManage?
3. What is the current software version running on your vManage?
4. Which software version do you plan to upgrade to?
5. What software versions are running on your routers?

Note: Essential Information Before Upgrading any Catalyst SD-WAN appliance.

SD-WAN Compatibility Matrix

To verify compatibility between the software versions of Cisco Catalyst SD-WAN control components and routers for your planned upgrade, please refer to the Cisco Catalyst SD-WAN Compatibility Matrix Tool available at:

[Cisco Catalyst SD-WAN Compatibility Matrix](#)

This tool provides up-to-date information on supported device and control component software versions, enabling you to confirm compatibility for your target upgrade version.

Manager Upgrade Matrix

Refer to the Upgrade Matrix to determine the appropriate upgrade path. This guidance applies only to vManage (Manager) software upgrades.

It is essential to specify both the current (X) and target (Y) images. Navigate to [Cisco Catalyst SD-WAN Upgrade Matrix](#)

Upgrading Catalyst SD-WAN Manager Standalone

Standalone Manager Upgrade: Image X to Y (No Disaster Recovery)

Refer to the upgrade guide for detailed steps. Disaster recovery procedures are not included in this upgrade scenario.
[Upgrade SD-WAN Controllers via vManage Graphic User Interface (GUI)](#)

Standalone Manager Upgrade: Image X to Y (Disaster Recovery)

Refer to the upgrade guide for detailed steps.
[Upgrade SD-WAN Controllers via vManage Graphic User Interface (GUI)](#)

Upgrading Catalyst SD-WAN Manager Cluster

Disaster Recovery Considerations

1. In the vManage UI, navigate to **Administration > Disaster Recovery** and verify the replication status. Ensure the status is **Success** and not in a transient state such as **Import Pending**, **Export Pending**, or **Download Pending**.
2.
 If the replication status is **Success** in **Administration > Disaster Recovery** (vManage UI):

- Pause Disaster Recovery.

- Proceed to upgrade the individual vManage node or the cluster using the steps outlined below.

3. Verify that Disaster Recovery is successfully **paused.**

⚠️ **Warning**: If Disaster Recovery is not successfully paused Open a TAC case for further assistance before proceeding with the upgrade.

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4. Once Disaster Recovery is successfully paused, proceed with the standard cluster manager upgrade process. It is important to select the appropriate upgrade option for your environment.

Disaster Recovery after Upgrade

Once upgrade is complete, UnPause Disaster Recovery and verify that disaster recovery has resumed. See, Verify Disaster Recovery Registration.

For detailed Cisco SD-WAN Disaster Recovery information, please consult the [Official DR Documentation.](#)

Manager Cluster Upgrade Procedure: Version 20.9.x to 20.12.x

Refer to the upgrade guide for detailed steps.

[Manager Cluster Upgrade Procedure: Version 20.9.x to 20.12.x](#)

Manager Cluster Upgrade Procedure: Version 20.9.5.2/20.9.7 to 20.15.x

Refer to the upgrade guide for detailed steps.

[Manager Cluster Upgrade Procedure: Version 20.9.5.2/20.9.7 to 20.15.x](#)

Manager Cluster Upgrade Procedure: Version 20.12.x to 20.15.x

Refer to the upgrade guide for detailed steps.

[Manager Cluster Upgrade Procedure: Version 20.12.x to 20.15.x](#)

Manager Cluster Upgrade Procedure: Version 20.15.x to 20.18.x

Refer to the upgrade guide for detailed steps.

[Manager Cluster Upgrade Procedure: Version 20.15.x to 20.18.x](#)

Manager Upgrade Within the Same Software Train

Condition 1: For 20.9.x and 20.12.x

- Use the CLI method.
- Config-db upgrade is not required.
- Refer to the [upgrade guide](#)for detailed steps.

Condition 2: For 20.15.x and 20.18.x

- Use the GUI method.
- Config-db upgrade is not required.
- Refer to the upgrade guidefor detailed steps.

Upgrade vBond and vSmart: Image X to Y

Refer to the Upgrade Document:
[Upgrade SD-WAN Controllers Using vManage GUI or CLI – Cisco](#)

TAC Case Required for vManage/Controller Upgrade Assistance

Open a TAC case for further assistance if you meet any of these scenarios:

- You need help upgrading vManage and have encountered issues during the upgrade.
- You are attempting an upgrade (for vBond, vSmart, or cEdge) and are running into issues, regardless of whether you initially requested help.

Make sure to select the appropriate Subtechnology based on the type of controller or device involved. This helps ensure your case is routed correctly and addressed more efficiently.

Subtechnology
Catalyst Manager (vManage) Single Node - Software Install, Activate or Upgrade
Catalyst Manager (vManage) Cluster - Software Install, Activate or Upgrade
Catalyst Validator (vBond) - Software Install, Activate or Upgrade
Catalyst Controller (vSmart) - Software Install, Activate or Upgrade
IOS-XE SD-WAN (cEdge) routers in controller mode - Software Install, Activate or Upgrade

Related Information

- [Technical Support & Documentation - Cisco Systems](#)