



# Cisco APIC SSD Replacement

Use this procedure to replace the Solid-State Drive (SSD) in Cisco APIC.



**Note** This procedure should only be performed when there is at least one APIC with a healthy SSD in the cluster, that is fully fit. If all the APIC controllers in the cluster have SSDs that have failed, open a case with the Cisco Technical Assistance Center (TAC).

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## Replacing the Solid-State Drive in Cisco APIC

- Step 1** Decommission the APIC.
- On the menu bar, choose **System > Controllers**.
  - In the **Navigation** pane, expand **Controllers > apic\_controller\_name > Cluster as Seen by Node**. From this point, select an `apic_controller_name` that is not the controller that is being decommissioned.
  - In the **Work** pane, verify that the **Health State** in the **Active Controllers** summary table indicates the cluster is **Fully Fit** before continuing.
  - In the same **Work** pane, click **Actions > Decommission** after selecting the controller to be decommissioned..
  - Click **Yes**.  
The decommissioned controller displays **Unregistered** in the **Operational State** column. The controller is then taken out of service and no longer visible in the **Work** pane.
- Step 2** This step is conditional and is required if your Cisco IMC version is earlier than 2.0(9c). The minimum Cisco IMC version required to replace SSD is 2.0(9c). Upgrade to Cisco IMC version 2.0(9c) if required.
- Use the [Host Upgrade Utility \(HUU\)](#) to upgrade to Cisco IMC version 2.0(9c).
  - Download the `.iso` image. See [Cisco Host Upgrade Utility 2.0\(7\) User Guide](#) to upgrade to Cisco IMC version 2.0(9c).
- Step 3** Physically remove the old SSD if any, and add the new SSD.
- Step 4** Create RAID volume using the newly installed SSD.
- Log in to Cisco IMC.
  - Choose **Storage > Physical Drive** . Select the newly added physical drive.
  - Choose **Storage > Controller Drive Info**, and click **Clear Foreign Config**.

- d) Click **OK**.
- e) Choose **Storage Controller Drive Info**, and click **Create Virtual Drive from Unused Physical Drives**.
- f) Select 0 from the **Raid Level** drop-down list.
- g) Click **Create Virtual Drive**.
- h) Select the newly created virtual drive and click **Initialize**.
- i) Select the **Initialize Type** from the drop-down list and click **Fast Initialize**.

**Step 5** Check TPM Status in BIOS or CIMC before installing APIC. If TPM is not activated, enable TPM in BIOS.

**Step 6** Install the APIC image using the virtual media. In this step, the SSD is partitioned and the APIC software is installed on the HDD.

**Note** For a fresh install of Cisco APIC OS 4.x or later, see the *Cisco APIC Installation, Upgrade, and Downgrade Guide*.

- a) Obtain the relevant APIC `.iso` image from CCO. **The image version of the APIC must be the same version as the other Controllers in the cluster.**
- b) Mount the APIC `.iso` image using the Cisco IMC vMedia functionality.
- c) Boot or power cycle the controller.
- d) During the boot process press **F6** to select the **Cisco vKVM-Mapped vDVD** as the one-time boot device. You may be required to enter the BIOS password. The default password is 'password'.
- e) Follow the onscreen instructions to install the APIC software.
- f) After the installation is completed, un-map the virtual media mount.

**Step 7** Commission the APIC.

- a) Select any other APIC that is part of the cluster. From the menu bar, choose **SYSTEM > Controllers**.
- b) In the **Navigation** pane, expand **Controllers > apic\_controller\_name > Cluster as Seen by Node**. From this point, select any `apic_controller_name` that is part of the cluster.
- c) From the **Work** pane, click the decommissioned controller that displaying **Unregistered** in the **Operational State** column.
- d) From the **Work** pane, click **Actions > Commission**.
- e) In the **Confirmation** dialog box, click **Yes**.

The commissioned controller displays the Health state as **Fully-fit** and the operational state as **Available**. The controller should now be visible in the **Work** pane.

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