

# Install and Activate SNS-35x5 Firmware Release 4.0(2n)

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## Overview

**Note:** We recommend that you gracefully shutdown the ISE services and halt the host operating system on the SNS appliances before performing this upgrade.

Follow the below steps to install and activate SNS-35x5 Firmware Release 4.0(2n):

1. Update BMC Firmware
2. Update BIOS Firmware
3. Activate BMC - 4.0(2n)
4. Activate BIOS - 4.0(2f)

**Note:**

1. If the current CIMC version is 3-0-3f, 3-0-4j, or 4-0-2h, you can directly upgrade to 4-0-2n.
2. If the current CIMC version is 3-0-3a or 3-0-3S2, you must downgrade to 2-0-xx or available backup version, because 3-03a and 3-0-3S2 CIMC versions don't support file size >=40 MB. You might see an error while uploading the file.
3. If the current CIMC version is 2-0-xx, you must follow the following upgrade path: 2-0-xx -> 3-0-3f, 3-0-4j, or 4-0-2h -> 4-0-2n

The following files are required to upgrade to SNS-35x5 Firmware Release 4.0(2n):

1. For BIOS:  
SNS-35xx-BIOS-4-0-2f-0\_ISE.cap
2. For BMC:  
upd-pkg-SNS-35xx-cimc.full.4.0.2n.bin

You must download these files from the [Cisco ISE Software Download](#) site.

**Note:** The below screenshots are taken during the CIMC 4.0(2h) to 4.0(2n) upgrade process.

For information on new features, vulnerability fixes, open caveats, and known issues in firmware 4.0.2n, see the *Release Notes for Cisco UCS C-Series Software, Release 4.0(2)*.

## Install BMC and BIOS Firmware

**Note:** We recommend that you gracefully shutdown the ISE services and halt the host operating system on the SNS appliances before performing this upgrade.

### Update BMC Firmware

BMC version update is restricted if the firmware version is less than 4.0(2h), due to the following security vulnerability: <https://tools.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-20200219-ucs-boot-bypass>

**Note:** The administrator can switch from the active BMC version to the backup BMC version and vice versa at any point of time. For example, if the active BMC version is 4.0(2n) and the backup BMC version is 3.0(4j), the administrator can activate or switch back to 3.0(4j). However, if the BMC version is updated to 4.0(4h), while 4.0(2n) is active, the administrator can only switch between 4.0(4h) and 4.0(2n). Older versions, such as 3.0(4j), cannot be uploaded to the system.

To update BMC firmware:

1. Login to CIMC.
2. Choose **Admin > Firmware Management**.
3. Check the **BMC** check box and click **Update**.
4. Click **Install BMC Firmware through Browser Client** and select the BMC binary file.
5. Click **Install Firmware**.

BMC is successfully uploaded as the backup version – 4.0 (2n).

🏠 / Admin / Firmware Management ★

[Refresh](#) | [Host Power](#) | [Launch KVM](#) | [Ping](#) | [CIMC Reboot](#) | [Locator LED](#) |  

#### Firmware Management

Update		Activate				
Component	Running Version	Backup Version	Bootloader Version	Status	Progress in %	
<input type="checkbox"/> BMC	4.0(2h)	4.0(2n)	4.0(2h).36	Completed Successfully		
<input type="checkbox"/> BIOS	C220M4 4.0.2d.0.0627191019	C220M4 4.0.2f.0.1113190831	N/A	Completed Successfully		
<input type="checkbox"/> Cisco FlexFlash	1.3.2 build 172	N/A	N/A	N/A	N/A	
<input type="checkbox"/> Cisco 12G SAS Modular Raid Controller	24.7.0-0047	N/A	N/A	N/A	N/A	

### Update BIOS Firmware

1. Check the **BIOS** check box and click **Update**.
2. Browse and select the BIOS image using the **Install BIOS Firmware through Browser Client** option.
3. Click **Install Firmware**.

BIOS is successfully uploaded as the backup version – 4.0(2f)

Firmware Management						
<div>Update</div> <div>Activate</div>						
Component	Running Version	Backup Version	Bootloader Version	Status	Progress in %	
<input type="checkbox"/> BMC	4.0(2h)	4.0(2n)	4.0(2h).36	Completed Successfully		
<input type="checkbox"/> BIOS	C220M4.4.0.2d.0.0627191019	C220M4.4.0.2f.0.1113190831	N/A	Completed Successfully		
<input type="checkbox"/> Cisco FlexFlash	1.3.2 build 172	N/A	N/A	N/A	N/A	
<input type="checkbox"/> Cisco 12G SAS Modular Raid Controller	24.7.0-0047	N/A	N/A	N/A	N/A	

## Activate BMC - 4.0(2n)

- To activate the newly uploaded BMC, check the **BMC** check box.
- Click **Activate**.
- Click **Activate Firmware**.

Admin / Firmware Management

Refresh | Host Power | Launch KVM | Ping | CIMC Reboot | Locator LED

Firmware Management						
<div>Update</div> <div>Activate</div>						
Component	Running Version	Backup Version	Bootloader Version	Status	Progress in %	
<input checked="" type="checkbox"/> BMC	4.0(2h)	4.0(2n)	4.0(2h).36	Completed Successfully		
<input type="checkbox"/> BIOS	C220M4.4.0.2d.0.0627191019	C220M4.4.0.2f.0.1113190831	N/A	Completed Successfully		
<input type="checkbox"/> Cisco FlexFlash	1.3.2 build 172	N/A	N/A	N/A	N/A	
<input type="checkbox"/> Cisco 12G SAS Modular Raid Controller	24.7.0-0047	N/A	N/A	N/A	N/A	

Activate Firmware

Select the firmware image to activate. Activating a firmware image will make it the running version.

☐ 4.0(2h) (currently running)
 ☒ 4.0(2n)

Warning: The management controller will be rebooted immediately to complete the activation. Communication with the controller will be temporarily lost and you will have to login again.

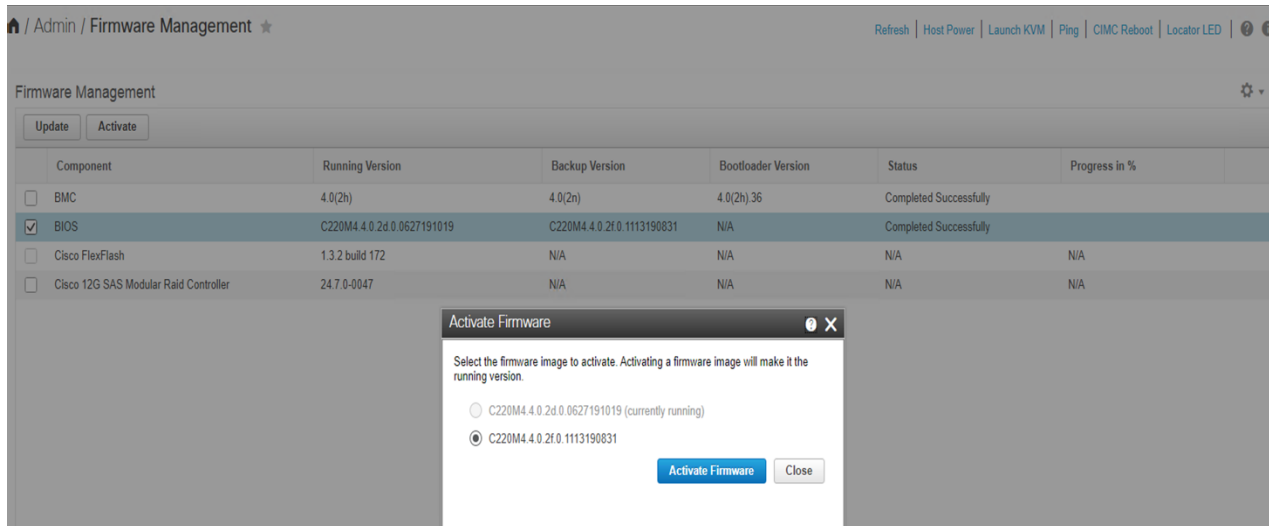
Activate Firmware

Close

CIMC will automatically restart when the firmware is activated. Refresh the browser and login to CIMC again. BMC version is upgraded to 4.0(2n).

## Activate BIOS - 4.0(2f)

- Power off the server manually to activate the BIOS. Choose **Host Power > Power Off**.
- Check the **BIOS** check box.
- Click **Activate**.
- Select the BIOS version and click **Activate Firmware**.



- Choose **Host Power > Power On** after activating the BIOS.  
The BIOS version is upgraded to 4.0(2f)

## Verify the Firmware Version

Choose **Admin > Firmware Management** and verify the firmware version:

- BMC is upgraded to 4.0(2n)
- BIOS is upgraded to C220M4.4.0.2f.0\_0627191019

The screenshot shows the 'Firmware Management' page with a table of components. The BIOS version has been updated to C220M4 4.0.2f.0.1113190831.

Component	Running Version	Backup Version	Bootloader Version	Status	Progress in %
<input type="checkbox"/> BMC	4.0(2n)	4.0(2h)	4.0(2n).36	Completed Successfully	
<input type="checkbox"/> BIOS	C220M4 4.0.2f.0.1113190831	C220M4 4.0.2d.0.0627191019	N/A	Completed Successfully	
<input type="checkbox"/> Cisco FlexFlash	1.3.2 build 172	N/A	N/A	N/A	N/A
<input type="checkbox"/> Cisco 12G SAS Modular Raid Controller	24.7.0-0047	N/A	N/A	N/A	N/A

## Rollback to Backup Firmware Version

**Note:** Follow the below steps if there are any issues in the BMC/BIOS upgrade and you want to roll back to the backup firmware version.

To Rollback to Backup BMC Version:

- Login to CIMC.
- Choose **Admin > Firmware Management**.
- Check the **BMC** check box.

4. Click **Activate**.
5. Click **Activate Firmware**.

CIMC will automatically restart when the firmware is activated. Refresh the browser and login to CIMC again. BMC is rolled back to the backup BMC version.

To Rollback to Backup BIOS Version:

1. Power off the server manually to activate the BIOS. Choose **Host Power > Power Off**.
2. Check the **BIOS** check box.
3. Click **Activate**.
4. Select the BIOS version and click **Activate Firmware**.
5. Choose **Host Power > Power On** after activating the BIOS.

The BIOS is rolled back to the backup BIOS version.