

Cisco Secure Network Server 37x5 Firmware Upgrade Guide

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Revised: October 28, 2026

Overview

This document describes how to upgrade the firmware on a Cisco Secure Network Server (SNS) 3700 series appliance.

Note We recommend that you perform graceful shutdown of the Cisco ISE services on the Cisco SNS appliance by using the **halt** CLI command before performing this upgrade. Forced shutdown or reload of the Cisco SNS server may corrupt Cisco ISE database.

Upgrade to Cisco SNS 37x5 Firmware Release 6.0(2.260205)

You can upgrade to Cisco SNS 37x5 firmware release 6.0(2.260205) from these releases:

- 6.0(2.260143)
- 6.0(2.260044)
- 6.0(1.250192)
- 6.0(1.250174)
- 4.3(6.260017)
- 4.3(6.250040)
- 4.3(5.250001)
- 4.3(4.242038)
- 4.3(4.241063)
- 4.3(4.240152)
- 4.3(2.240009)
- 4.3(2.230207)
- 4.2(3g)
- 4.2(2f)

These files are required for this upgrade:

- SNS-37xx-BIOS-6-0-2b_ISE.pkg file: BIOS firmware for Cisco SNS 3700 series appliance
- SNS-37xx-HUU-6.0.2.260205_ISE.iso: Host Upgrade Utility (HUU) .iso file for Cisco SNS 3700 series appliance

For more information about the firmware release 6.0(2.260205), see the Release Notes for Cisco UCS Rack Server Software, Release 6.0(2).

Note Before you upgrade the HUU ISO, upgrade the BIOS firmware using SNS-37xx-BIOS-6-0-2b_ISE.pkg. The HUU bundle includes the same BIOS version as the earlier 6.0(2.260143) release.

Important The SNS-37xx-BIOS-6-0-2b_ISE.pkg file has been reuploaded to the Cisco Software Download page. Download and use the latest version of this file to avoid issues during the BIOS firmware upgrade. This version includes the fix for CSCwv18813.

Upgrade to Cisco SNS 37x5 Firmware Release 6.0(2.260143)

You can upgrade to Cisco SNS 37x5 firmware release 6.0(2.260143)from these releases:

- 6.0(2.260044)
- 6.0(1.250192)
- 6.0(1.250174)
- 4.3(6.260017)
- 4.3(6.250040)
- 4.3(5.250001)
- 4.3(4.242038)
- 4.3(4.241063)
- 4.3(4.240152)
- 4.3(2.240009)
- 4.3(2.230207)
- 4.2(3g)
- 4.2(2f)

These files are required for this upgrade:

- SNS-37xx-BIOS-6-0-2b_ISE.pkg file: BIOS firmware for Cisco SNS 3700 series appliance
- SNS-37xx-HUU-6.0.2.260143_ISE.iso: HUU .iso file for Cisco SNS 3700 series appliance

For more information about the firmware release 6.0(2.260143), see the Release Notes for Cisco UCS Rack Server Software, Release 6.0(2).

Upgrade to Cisco SNS 37x5 Firmware Release 6.0(2.260044)

You can upgrade to Cisco SNS 37x5 firmware release 6.0(2.260044) from these releases:

- 6.0(1.250192)
- 6.0(1.250174)
- 4.3(6.260017)

- 4.3(6.250040)
- 4.3(5.250001)
- 4.3(4.242038)
- 4.3(4.241063)
- 4.3(4.240152)
- 4.3(2.240009)
- 4.3(2.230207)
- 4.2(3g)
- 4.2(2f)

These files are required for this upgrade:

- SNS-37xx-BIOS-6-0-2a_ISE.pkg file: BIOS firmware for Cisco SNS 3700 series appliance
- SNS-37xx-HUU-6.0.2.260044_ISE.iso: HUU .iso file for Cisco SNS 3700 series appliance

For more information about the firmware release 6.0(2.260044), see the Release Notes for Cisco UCS Rack Server Software, Release 6.0(2).

Upgrade to Cisco SNS 37x5 Firmware Release 6.0(1.250192)

You can upgrade to Cisco SNS 37x5 firmware release 6.0(1.250192) from these releases:

- 6.0(1.250174)
- 4.3(6.260017)
- 4.3(6.250040)
- 4.3(5.250001)
- 4.3(4.242038)
- 4.3(4.241063)
- 4.3(4.240152)
- 4.3(2.240009)
- 4.3(2.230207)
- 4.2(3g)
- 4.2(2f)

These files are required for this upgrade:

- SNS-37xx-BIOS-6-0-1c_ISE.pkg file: BIOS firmware for Cisco SNS 3700 series appliance
- SNS-37xx-HUU-6.0.1.250192_ISE.iso: HUU .iso file for Cisco SNS 3700 series appliance

For more information about the firmware release 6.0(1.250192), see the Release Notes for Cisco UCS Rack Server Software, Release 6.0(1).

Upgrade to Cisco SNS 37x5 Firmware Release 6.0(1.250174)

You can upgrade to Cisco SNS 37x5 firmware release 6.0(1.250174) from these releases:

- 4.3(6.260017)
- 4.3(6.250040)
- 4.3(5.250001)
- 4.3(4.242038)
- 4.3(4.241063)
- 4.3(4.240152)
- 4.3(2.240009)
- 4.3(2.230207)
- 4.2(3g)
- 4.2(2f)

These files are required for this upgrade:

- SNS-37xx-BIOS-6-0-1c_ISE.pkg file: BIOS firmware for Cisco SNS 3700 series appliance
- SNS-37xx-HUU-6.0.1.250174_ISE.iso: HUU .iso file for Cisco SNS 3700 series appliance

For more information about the firmware release 6.0(1.250174), see the Release Notes for Cisco UCS Rack Server Software, Release 6.0(1).

Upgrade to Cisco SNS 37x5 Firmware Release 4.3(6.260017)

You can upgrade to Cisco SNS 37x5 firmware release 4.3(6.260017) from these releases:

- 4.3(6.250040)
- 4.3(5.250001)
- 4.3(4.242038)
- 4.3(4.241063)
- 4.3(4.240152)
- 4.3(2.240009)
- 4.3(2.230207)
- 4.2(3g)
- 4.2(2f)

These files are required for this upgrade:

- SNS-37xx-BIOS-6-0-1c_ISE.pkg file: BIOS firmware for Cisco SNS 3700 series appliance
- SNS-37xx-HUU-4.3.6.260017_ISE.iso: HUU .iso file for Cisco SNS 3700 series appliance

For more information about the firmware release 4.3(6.260017), see the Release Notes for Cisco UCS Rack Server Software, Release 4.3(6).

Upgrade to Cisco SNS 37x5 Firmware Release 4.3(6.250040)

You can upgrade to Cisco SNS 37x5 firmware release 4.3(6.250040) from these releases:

- 4.3(5.250001)
- 4.3(4.242038)
- 4.3(4.241063)
- 4.3(4.240152)
- 4.3(2.240009)
- 4.3(2.230207)
- 4.2(3g)
- 4.2(2f)

These files are required for this upgrade:

- SNS-37xx-BIOS-4-3-6a_ISE.pkg file: BIOS firmware for Cisco SNS 3700 series appliance
- SNS-37xx-HUU-4.3.6.250040_ISE.iso: HUU .iso file for Cisco SNS 3700 series appliance

For more information about the firmware release 4.3(6.250040), see the Release Notes for Cisco UCS Rack Server Software, Release 4.3(6).

Upgrade to Cisco SNS 37x5 Firmware Release 4.3(5.250001)

You can upgrade to Cisco SNS 37x5 firmware release 4.3(5.250001) from these releases:

- 4.3(4.242038)
- 4.3(4.241063)
- 4.3(4.240152)
- 4.3(2.240009)
- 4.3(2.230207)
- 4.2(3g)
- 4.2(2f)

These files are required for this upgrade:

- SNS-37xx-BIOS-4-3-4d_ISE.pkg file: BIOS firmware for Cisco SNS 3700 series appliance
- SNS-37xx-HUU-4.3.5.250001_ISE.iso: HUU .iso file for Cisco SNS 3700 series appliance

For more information about the firmware release 4.3(5.250001), see the Release Notes for Cisco UCS Rack Server Software, Release 4.3(5).

Upgrade to Cisco SNS 37x5 Firmware Release 4.3(4.242038)

You can upgrade to Cisco SNS 37x5 firmware release 4.3(4.242038) from these releases:

- 4.3(4.241063)
- 4.3(4.240152)
- 4.3(2.240009)
- 4.3(2.230207)
- 4.2(3g)
- 4.2(2f)

These files are required for this upgrade:

- SNS-37xx-BIOS-4-3-4b_ISE.pkg file: BIOS firmware for Cisco SNS 3700 series appliance
- SNS-37xx-HUU-4.3.4.242038_ISE.iso: HUU .iso file for Cisco SNS 3700 series appliance

For more information about the firmware release 4.3(4.242038), see the Release Notes for Cisco UCS Rack Server Software, Release 4.3(4).

Upgrade to Cisco SNS 37x5 Firmware Release 4.3(4.241063)

You can upgrade to Cisco SNS 37x5 firmware release 4.3(4.241063) from these releases:

- 4.3(4.240152)
- 4.3(2.240009)
- 4.3(2.230207)
- 4.2(3g)
- 4.2(2f)

These files are required for this upgrade:

- SNS-37xx-BIOS-4-3-4a_ISE.pkg file: BIOS firmware for Cisco SNS 3700 series appliance
- SNS-37xx-HUU-4.3.4.241063_ISE.iso: HUU .iso file for Cisco SNS 3700 series appliance

For more information about the firmware release 4.3(4.241063), see the Release Notes for Cisco UCS Rack Server Software, Release 4.3(4).

Note If you are upgrading from firmware release 4.3(4.240152), you can directly perform the HUU ISO upgrade using the SNS-37xx-HUU-4.3.4.241063_ISE.iso file. For other releases, you must first upgrade the BIOS firmware using the SNS-37xx-BIOS-4-3-4a_ISE.pkg file and then perform the HUU ISO upgrade using the SNS-37xx-HUU-4.3.4.241063_ISE.iso file. You must download these files from the Cisco ISE Software Download site.

Upgrade to Cisco SNS 37x5 Firmware Release 4.3(4.240152)

You can upgrade to Cisco SNS 37x5 firmware release 4.3(4.240152) from these releases:

- 4.3(2.240009)
- 4.3(2.230207)
- 4.2(3g)
- 4.2(2f)

These files are required for this upgrade:

- SNS-37xx-BIOS-4-3-4a_ISE.pkg file: BIOS firmware for Cisco SNS 3700 series appliance
- SNS-37xx-HUU-4.3.4.240152_ISE.iso: HUU .iso file for Cisco SNS 3700 series appliance

For more information about the firmware release 4.3(4.240152), see the Release Notes for Cisco UCS Rack Server Software, Release 4.3(4).

Upgrade to Cisco SNS 37x5 Firmware Release 4.3(2.240009)

You can upgrade to Cisco SNS 37x5 firmware release 4.3(2.240009) from these releases:

- 4.3(2.230207)
- 4.2(3g)
- 4.2(2f)

These files are required for this upgrade:

- SNS-37xx-BIOS-4-3-2e_ISE.pkg file: BIOS firmware for Cisco SNS 3700 series appliance
- SNS-37xx-HUU-4.3.2.240009_ISE.iso: HUU .iso file for Cisco SNS 3700 series appliance

For more information about the firmware release 4.3(2.240009), see the *Release Notes for Cisco UCS Rack Server Software, Release 4.3(2)*.

Upgrade to Cisco SNS 37x5 Firmware Release 4.3(2.230207)

You can upgrade to Cisco SNS 37x5 firmware release 4.3(2.230207) from these releases:

- 4.2(3g)
- 4.2(2f)

These files are required for this upgrade:

- SNS-37xx-BIOS-4-3-2c_ISE.pkg file: BIOS firmware for Cisco SNS 3700 series appliance
- SNS-37xx-HUU-4.3.2.230207_ISE.iso: HUU .iso file for Cisco SNS 3700 series appliance

For more information about the firmware release 4.3(2.230207), see the *Release Notes for Cisco UCS Rack Server Software, Release 4.3(2)*.

Upgrade to Cisco SNS 37x5 Firmware Release 4.2(3g)

You can upgrade to Cisco SNS 37x5 firmware release 4.2(3g) from firmware release 4.2(2f). These files are required for this upgrade:

- SNS-37xx-BIOS-4-2-3c-0_ISE.pkg file: BIOS firmware for Cisco SNS 3700 series appliance

- SNS-37xx-HUU-4.2.3g_ISE.iso: HUU .iso file for Cisco SNS 3700 series appliance

For more information about the firmware release 4.2(3g), see the *Release Notes for Cisco UCS Rack Server Software, Release 4.2(3)*.

You must download the upgrade files from the Cisco ISE Software Download site.

Note The screenshots given in this document were taken while upgrading the firmware from 4.2(2f) to 4.2(3g). These screenshots are only for your reference.

Upgrade and activate the firmware

Important

- You must perform these steps in the same sequence to upgrade and activate the firmware. If the BIOS firmware is not upgraded before the HUU ISO upgrade, then the BIOS will not be loaded properly and the boot options will not be displayed.
- Before upgrading your Cisco SNS 37x5 appliance firmware from 4.x to 6.x, you must install the ise-apply-CSCwu00192_3.4_patchall-SPA.tar.gz hot patch if you are running Cisco ISE release 3.2 patch 10, 3.3 patch 11, 3.4 patch 6, 3.5 patch 3, or an earlier version. This step is mandatory and must be completed before starting the firmware upgrade process.

  After the BIOS and HUU upgrades complete successfully, verify the TPM firmware as follows:

  1. In the CIMC web UI, navigate to **Chassis** > **Inventory** > **TPM**.
  2. If the TPM firmware version is 7.86 or later, no further action is required.

     If the version is 7.85 or earlier:

     a. If the operating system has booted, stop Cisco ISE services.

     b. In the CIMC web UI, choose **Host Power** > **Power Cycle** to restart the server. Wait for the server to complete its restart.

     c. In the CIMC web UI, choose **CIMC Reboot** and then click **OK**.

     d. In the CIMC web UI, choose **Chassis** > **Inventory** > **TPM** and verify that the TPM firmware version is 7.86 or later.

     Note **Host Power** > **Power Cycle** restarts the server; it does not reboot CIMC. Complete the separate **CIMC Reb** action before verifying the TPM firmware version.

Procedure

Step 1 Update BIOS firmware, on page 10.

Step 2 Activate BIOS, on page 10.

Step 3 Update and activate other firmwares using HUU ISO, on page 11.

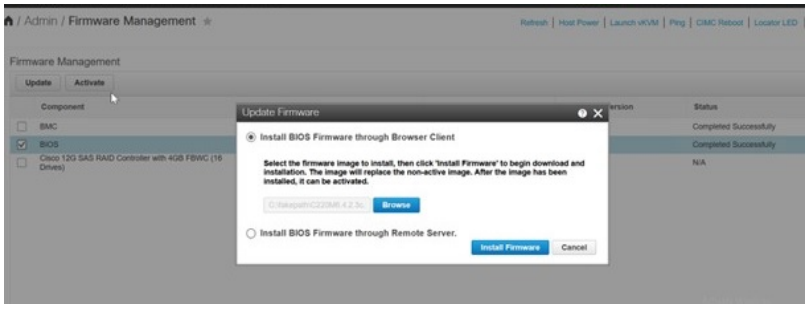
Update BIOS firmware

Procedure

Step 1 Check the **BIOS** check box and click **Update**.

Step 2 Click **Install BIOS Firmware Through Browser Client** and select the BIOS image.

Step 3 Click **Install Firmware**.



BIOS is successfully uploaded as the backup version.



Activate BIOS

Before you begin

You must update the BIOS firmware before performing this task.

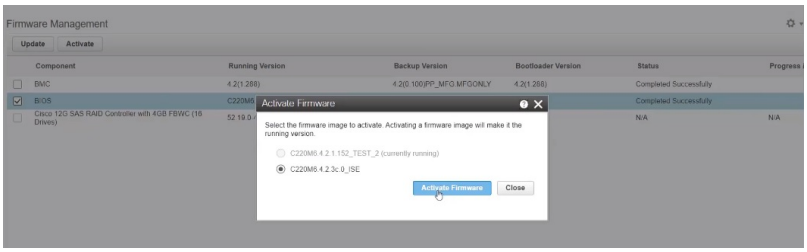
Procedure

Step 1 Choose **Host Power** > **Power Off** to manually power off the server.

Step 2 Check the **BIOS** check box.

Step 3 Click **Activate**.

Step 4 Choose the BIOS version and click **Activate Firmware**.



Step 5 Choose **Host Power** > **Power On** after activating the BIOS.

Update and activate other firmwares using HUU ISO

Before you begin

You must complete these steps before performing this task:

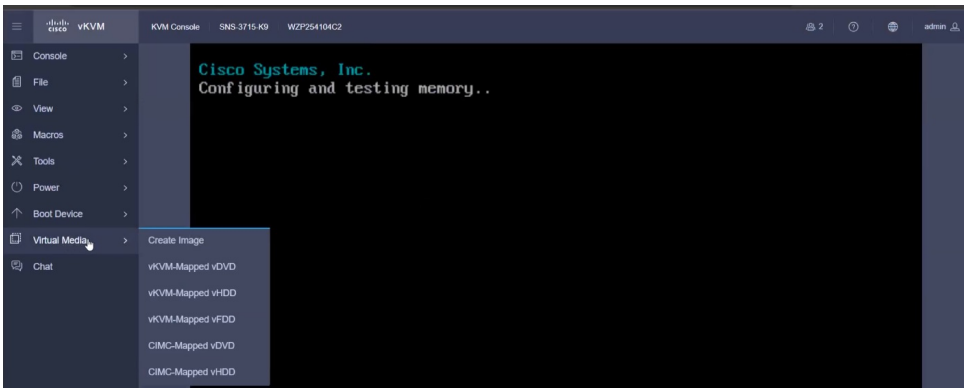
1. Update BIOS firmware.
2. Activate BIOS firmware.

Important If the BIOS firmware is not upgraded before the HUU ISO upgrade, then the BIOS will not be loaded properly and the boot options will not be displayed.

Procedure

Step 1 In the Cisco Integrated Management Controller toolbar, click **Launch vKVM** to launch the KVM console.

Step 2 In the KVM console, choose **Virtual Media** > **vKVM-Mapped vDVD**.

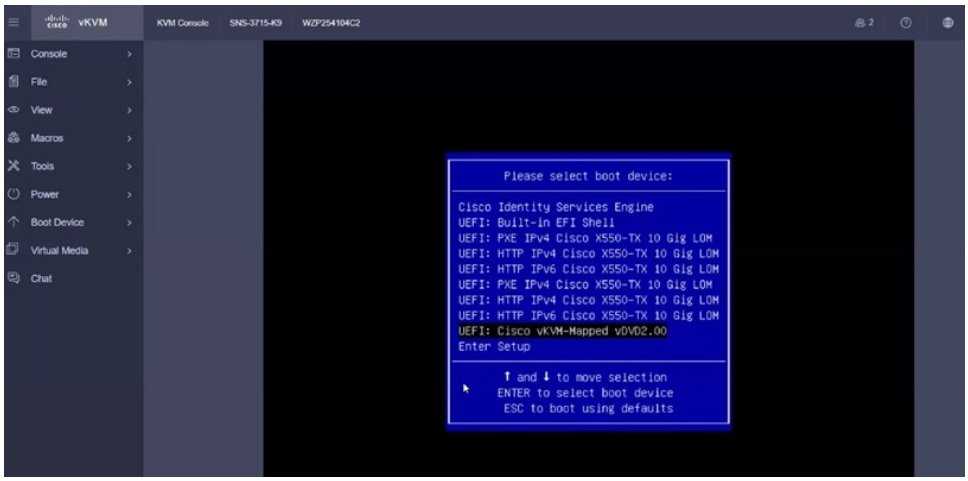


Step 3 Click **Browse** and browse for the HUU .iso file.

Step 4 Click **Map Drive**.

Step 5 Press **F6** when prompted to open the **Boot Menu** window.

Step 6 In the **Boot Menu** window, choose **UEFI: Cisco vKVM-Mapped vDVD2.00**.



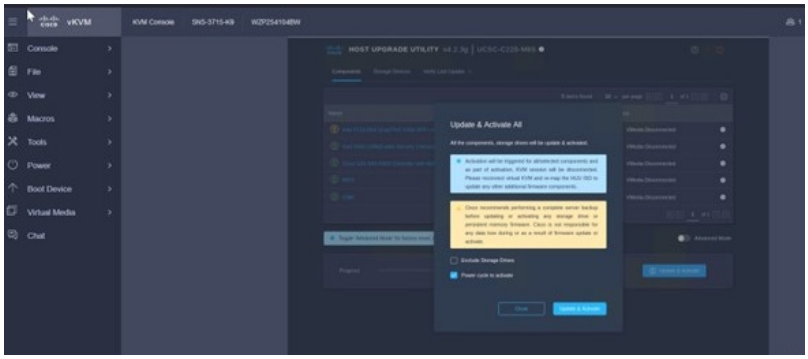
Step 7 Read the Cisco Software License Agreement and click **Agree** to proceed with the update.

The **Cisco Host Upgrade Utility** window appears with the list of components that are available for update.

Note If you choose the **Reject** option, the upgrade process is canceled and the host is rebooted.

Step 8 Click **Update & Activate**.

Step 9 In the **Update & Activate All** window, check the **Power Cycle to Activate** check box and click **Update & Activate**.



Note BIOS upgrade is skipped during this step because BIOS is already upgraded to the latest version (see Update BIOS firmware, on page 10 and Activate BIOS, on page 10).

Step 10 The system is restarted after the firmware upgrade. Log in back to verify the upgraded firmware versions.

Verify the Firmware Version

Choose **Admin > Firmware Management** and verify the upgraded firmware versions in the **Running Version** column.



Choose **Chassis > Summary** and verify the firmware versions.



Note Rollback of BMC and BIOS is not recommended while upgrading using the HUU ISO because it might cause compatibility issues.

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