



# Installing Software Maintenance Update

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## Software Maintenance Update (SMU) version 11.5(2) on Cisco DCNM 11.5(1)

Cisco DCNM Release 11.5(2) offers a Software Maintenance Update (SMU) that can be applied only on top of the DCNM Release 11.5(1) for the OVA/ISO/Appliance form factor. DCNM Release 11.5(2) also offers Cisco SAN Deployment on Windows and Linux.

Install the SMU for SAN OVA/ISO only if you've deployed IBM SAN16C-R 8977-R16 in your network. For all other supported hardware, we recommend that you deploy Cisco DCNM Release 11.5(1).



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**Note** SMU version 11.5(2) is supported with Cisco DCNM Release 11.5(1) only.

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**Note** Only a **root** user must install the SMU version 11.5(2) on Cisco DCNM Release 11.5(1).

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For information about SMU version 11.5(2), refer to [Cisco DCNM Release Notes, Release 11.5\(2\)](#).

## Installing SMU version 11.5(2) on Cisco DCNM 11.5(1)

Cisco DCNM SAN Deployment using Windows and Linux installers supports IBM Switch (IBM SAN16C-R 8977-R16). To enable this support with DCNM SAN OVA/ISO deployment, install Software Maintenance Update (SMU) version 11.5(2) on the base installation of Cisco DCNM Release 11.5(1). For all other supported hardware, we recommend that you deploy Cisco DCNM Release 11.5(1).

To apply the Software Maintenance Update (SMU) on Cisco DCNM SAN OVA/ISO installation in Standalone deployment mode, perform the following steps:

### Before you begin

- Ensure that Cisco DCNM 11.5.(1) appliance is operational.

- Take a backup of the application data using the **appmgr backup** command.

```
dcnm# appmgr backup
```

Copy the backup file to a safe location outside the DCNM server.

- If Cisco DCNM appliance is installed in VMware environment, ensure that you take a snapshot of the virtual machine. For instructions, refer to [VMware Snapshot Support for Cisco DCNM](#).
- Ensure that you plan for a maintenance window to install SMU version 11.5(2).

## Procedure

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### Step 1

Download the SMU file.

- Go to the following site: <http://software.cisco.com/download/>.

A list of the latest release software for Cisco DCNM available for download is displayed.

- In the Latest Releases list, choose Release 11.5(2).
- Locate **DCNM 11.5(2) Maintenance Update for VMWare, KVM, Bare-metal, and Appliance servers** file, and click **Download** icon.
- Save the **dcnm-va-patch.11.5.2.iso.zip** file to your directory that is easy to find when you start to apply the SMU.

### Step 2

Unzip the **dcnm-va-patch.11.5.2.iso.zip** file and upload the file to the **/root/** folder of the DCNM setup.

### Step 3

Log on to the Cisco DCNM appliance using SSH as a **sysadmin** user.

Run the **su** command to enable **root** user.

```
dcnm# su
Enter the root password:
[root@dcnm]#
```

### Step 4

Run the following command to create a screen session.

```
[root@dcnm]# screen
```

This creates a session which allows you to execute the commands. The commands continue to run even when the window is not visible or if you get disconnected.

### Step 5

Create a folder named **iso** using the **mkdir -p /mnt/iso** command.

```
[root@dcnm]# mkdir -p /mnt/iso
```

### Step 6

Mount the DCNM SMU version 11.5(2) file in the **/mnt/iso** folder.

```
[root@dcnm]# mount -o loop dcnm-va-patch.11.5.2.iso /mnt/iso
```

### Step 7

Navigate to **/scripts/** directory.

```
[root@dcnm]# cd /mnt/iso/packaged-files/scripts/
```

### Step 8

Run the **./inline-upgrade.sh** script.

```
[root@dcnm]# ./inline-upgrade.sh
```

**Note** After the SMU is installed successfully, the DCNM process restarts. This results in a momentary loss of access to the DCNM Web UI.

**Step 9** Ensure the DCNM application is functional, by using the **appmgr status all** command.

```
[root@dcnm]# appmgr status all
```

**Step 10** Terminate the **screen** session, by using the **exit** command.

```
[root@dcnm]# exit
```

**Step 11** Unmount the **dcnm-va-patch.11.5.2.iso** file from the DCNM setup.

**Note** You must terminate the **screen** session before unmounting the SMU file.

```
[root@dcnm]# umount /mnt/iso
```

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### What to do next

Log on to the DCNM Web UI with appropriate credentials. The version shows 11.5(2) on the login screen.



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**Note** If you try to install the maintenance update again, a note appears stating that the patch is already applied on the Cisco DCNM.

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