

Uploading the Cisco MSE/CMX ISO Image to the Cisco MSE 3365/Cisco CMX 3375



- **Note** Make sure the Serial over Lan (SoL) functionality is enabled on the Cisco Unified Communication System (UCS). To enable SoL on the Cisco UCS server, use the **set enabled yes** command. For more information on enabling SoL, refer to the Cisco UCS documentation on Cisco.com.
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Uploading Cisco CMX ISO Image to Cisco CMX 3375 Using Newer CIMC Versions

The Cisco CMX 3375 Appliance requires Cisco CMX Release 10.5.1 or later. Minimal configuration is done for the Cisco CMX as part of installation using the console. For hardware and software installation information, see the Cisco 3375 Appliance for Cisco Connected Mobile Experiences Installation Guide at: https://www.cisco.com/c/en/us/support/wireless/connected-mobile-experiences/ products-installation-guides-list.html

- Step 1 Download the Cisco CMX 10.5.1 image from Download Software on cisco.com.
- **Step 2** Power up the Cisco CMX 3375 appliance and configure the CIMC IP Address and user credentials.
- **Step 3** Log in to CIMC IP using Internert Explorer.
- **Step 4** In the left pane, click **Menu > Compute > BIOS**.
- **Step 5** From the **Configured Boot Mode** drop-down list, choose **Legacy**.

Figure 1: BIOS Configured Boot Mode

≁ dudu Ci	isco Integrated Management (Controller	÷ 🗹 1	admin@XXXXXXXXXXX - cmx-3375-4 🌣			
角 / Chassis / S	ummary ★	Refresh H	Host Power Launch KVM Ping	CIMC Reboot Locator LED 🚱 🚯			
Server Propert	ties	Cisco Integrated M	anagement Controller	(Cisco IMC) Information			
Product Name:		Hostname:	cmx-3375-4				
Serial Number:	WZP22210MYV	IP Address:	172.19.28.202				
PID:	AIR-CMX-3375-K9	MAC Address:	70:0F:6A:ED:7A:B8				
UUID:	E7D5746A-F059-4E89-B071-98200B90141	IC Firmware Version:	3.1(3a)				
BIOS Version:	C220M5.3.1.3c.0.0307181404	Current Time (UTC):	Wed Jan 30 03:13:07 2019				
Description:		Local Time:	Wed Jan 30 03:13:07 2019 UTC +0	0000			
Asset Tag:	Unknown	Timezone:	UTC	Select Timezone			
Chassis Status Power State: On Overall Server Status: Good		Server Utilization		Overall Utilization (%)			
Overall DIMM S Power Sup	Status: Sood oplies: Good Fans: Good	80 70 60 50 40		Memory Utilization (%)			
				Save Changes Reset Values			

- **Step 6** Follow the on screen instruction to reboot the system.
- Step 7 Click Configure Boot Order.
- **Step 8** In the **Configure Boot Order** window, click **Advanced** tab.
- Step 9 Click Add Virtual Media.
- **Step 10** Enter a name for the new virtual media.
- **Step 11** From the **Sub Type** drop-down list, choose **KVM MAPPED DVD**.
- Step 12 Click Save Changes.

The new virtual media is created and enabled.

- **Step 13** Use IE and open KVM. We recommend that you use JAVA Based KVM on IE or Firefox for more consistent results.
- Step 14 Click Virtual Media > Activate Virtual Devices.

Figure 2: Activate Virtual Devices

ului cisc	Cisco Integrated Mar	nagement Controller	admin@ 100000038009 - C2
File	View Macros Tools Power B ************************************	oot Device Virtual Media Help Create Image Activate Virtual Devices pt partition of the disk ? [y/N]: N ete. htinue CMX configuration	

Step 15 Click Map CD/DVD and select image from your local folder.

Figure 3:	Virtual	Media -	Cisco	СМХ
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Cisco Integrated Managemer	nt Controller	admin@ XXXXXXXXXXX C220-WZP2211154D	₽
File View Macros Tools Power Boot Device	√irtual Media Help	A 1	S
	Create Image		
	Activate Virtual Devices		
	CISCO_CMX-10.6.0-167.iso Mapped to CD/DVD		
	Map Removable Disk		
	Map Floppy Disk		
	No Signal		

Step 16 Select the Boot Device the name given in step 10.

Cisco Integrated Management Controller	admin@ 10020202000 - C220-WZP2211154D 🌼
File View Macros Tools Power Boot Device Virtual Me ia Help No Override KVM_MappedDVD	A 1 S
No Signal	

Figure 4: Boot Device

Step 17 In the KVM, use the **Power** option to power on the Cisco CMX 3375 Appliance.

Cisco Integra	ted Management Controlle	er	admin@ XXXXXXXXXXX - C220-WZP2	211154D	₽
File View Macros Tools	Power Boot Device Virtual Media	lelp	A	1	
	Power On System				
	Power Off System				
	Reset System (warm boot)				
	Power Cycle System (cold boot)				
		No Signal			

Figure 5: Boot Device > Power On System

- **Step 18** After the appliance is rebooted, press **F6** to enter **Boot Menu**.
- **Step 19** Select Cisco vKVM Mapped DVD.
- Step 20 Select Install using Current Console as the install method.
- Step 21 Click Proceed with install. Wait for 20 to 30 minutes for copying CMX file.

The system is rebooted after the file is copied. The system is loaded with Centos 7. Cisco CMX welcome window is displayed.

What to do next

For more information about configuring Cisco CMX, see Configuring Cisco CMX Release 10.5.x and Later.

Uploading the Cisco CMX/MSE ISO Image to the Cisco MSE 3365 Using Newer CIMC Versions

MSE 3365 Software Reset is a process used to load the MSE 3365 with a required image (MSE 8.x, or CMX 10.x). The MSE 3365 is a UCS-based device, and can be accessed through the Cisco Integrated Management Controller (CIMC) interface.

Before you begin

Java Version 1.6.0.14 must be installed on the client machine used to access your MSE 3365 device.

- Step 1 Download the Cisco MSE ISO image from the Download Software page on cisco.com.
- **Step 2** Open a browser, and enter the IP address of your device to log in to to the Cisco Integrated Management Controller (CIMC) GUI interface (Address format is https://x.x.x.x).

→E vilualu cisco C	isco Integrated Management	Controller	÷ 🗹 1	admin@ X80653X53083X - cmx-3375-4 🔅
A / Chassis / S	Summary ★	Refresh	Host Power Launch KVM Ping	CIMC Reboot Locator LED
Server Proper	ties	Cisco Integrated N	lanagement Controller	(Cisco IMC) Information
Product Name:		Hostname:	cmx-3375-4	
Serial Number:	WZP22210MYV	IP Address:	172.19.28.202	
PID:	AIR-CMX-3375-K9	MAC Address:	70:0F:6A:ED:7A:B8	
UUID:	E7D5746A-F059-4E89-B071-98200B90141	1C Firmware Version:	3.1(3a)	
BIOS Version:	C220M5.3.1.3c.0.0307181404	Current Time (UTC):	Wed Jan 30 03:13:07 2019	
Description:		Local Time:	Wed Jan 30 03:13:07 2019 UTC +	0000
Asset Tag:	Unknown	Timezone:	UTC	Select Timezone
Chassis Status	S State: On	Server Utilization		
Overall Server	Status: 🗹 Good	100]		Ouerall LIPEration (%)
Tempe	rature: 🗹 Good	90		CPU Utilization (%)
Overall DIMM Status: Good		- 08		Memory Utilization (%)
Power Supplies: Sood		70		IO Utilization (%)
	Fans: 🗹 Good	50 -		
Locato		40		
C.				Save Changes Reset Values

- Step 3Click Server and in the Server Summary page, click Launch KVM Console and click OK.
A mini executable file is downloaded.
- **Step 4** Open the file using javaws.exe from the bin folder of your Java installation. If a security error prevents you from installing the file, add the URL of the CIMC to the list of exception sites, using the steps below.
 - a) Choose Control Panel > Programs > Java.
 - b) Choose Security > Edit Site List > Add and add the CIMC URL.
 - c) Click OK.
 - The installation is initiated.
- **Step 5** In the KVM Console window that is displayed after the installation, click the **Virtual Media** tab.

Figure 6: Cisco Integrated Management Controller Interface

Figure 7: KVM Console



Step 6 In the **Virtual Media** window that is displayed, choose **Activate Virtual Devices > Select ''Map CD/DVD**. Browse and select the downloaded MSE image.

Figure	8:	ISO	Image	Sel	ected

×_			~								
	10	.154.80.	23 - KVM	Console							×
	File	View	Macros	Tools	Power	Virtual Media	lelp				
						Create Imag	e				
						🖌 Activate Virt	ual Devices				
						CISCO-MSE	L-K9-8-0-110-10-64bit-MSE-3365-only.iso Mapped to CD/	DVD			
ľ	le I	come	to	Red	Hat E	Map Remov	able Disk	_			
1						Map Floppy					
1											
							Post-Installation				
						100					
						Runnin	g post-installation scripts				
							1			0.000 MF	0.0
							10.154.80	23 admin	0.6 fps	0.002 KB/s	

The recovery process begins. The Select Install Method window is displayed.

Step 7 In the **Select Install Method** window that is displayed, choose any of the following options:

• Option 1: Install CMX using Serial—Respond to the prompt to press ENTER by starting an SSH session to the CIMC interface, as the KVM console does not permit you to press ENTER (With CSCuw32543). Use the following commands to initiate the SSH session:

ssh <cimc-ip-address>
connect host

You can see that the image is being copied from CDROM. The process can take up to forty-five minutes to copy.

Figure 9: Copying from CDROM

2 10.154.80.23 - PuTTY		
Board Product Name	: UCSC-C220-M4S	
Board Part Number	: 74-12419-01	
Board Serial	: FCH19437X8F	
FRU File ID		
Part Number Revision		
FAB Version		
VID		
Product Hanufacturer	: Cisco Systems Inc	
Product Name	: AIR-MSE-3365-K9	
Product Part/Model Number	: 74-12502-01	
Product Version		
Product Serial	: FCH1944V269	
FRU File ID	: C220M4S	
Part Number Revision		
VID		
Success in setting for FR		
UDI PID update complete		
"Edit grub.conf"		
"Root drive is UUID=99a9f	e4b-bdc1-4a8a-b1ab-a449a519343c UUID=99a9fe4b-bdc1-4a8a-b1ab-a449	a519343c~
Check tmpfs partition befo	pre installation	
tmpfs 32G	D 32G D% /dev/shm	
Set host name with hostna	me command	
Restarting network service	es after setting hostname	
The hostname is: mse-3365		
Add dummy address in /etc.	/hosts file	
Check /etc/hosts file		
127.0.0.1 localhost loc	alhost.localdomain localhost4 localhost4.localdomain4	
::1 localhost loc	alhost.localdomain localhost6 localhost6.localdomain6	
192.168.253.1 mse-3365 1	mse-3365.cisco.com	
Copying CISCO-MSE-L-K9-8-	0-110-10-64bit.bin.tar.gz from the CDROM. Thu Jan 7 13:51:34 PST	2016

Figure 10: Copying Database Files from CDROM

10.154.80.23 - PuTTY		×
Board Serial	: FCH19437X8F	
FRU File ID		
Part Number Revision		
FAB Version		
VID		
1		
Product Manufacturer	: Cisco Systems Inc	
Product Name	: AIR-M3E-3365-K9	
Product Part/Model Number	: 74-12502-01	
Product Version	: A0	
Product Serial	: FCH1944V269	
FRU File ID	: C220H4S	
Part Number Revision	: 00	
VID	: VU1	
Success in setting for FRM	J ID 2	
UDI DID undere complete		
"Edit grub.conf"		
"Root drive is UUID=99a9fs	4b-bdc1-4a8a-b1ab-a449a519343c UUID=99a9fe4b-bdc1-4a8a-b1ab-a449a519343c″	
Check tmpfs partition befo	pre installation	
tmpfs 32G (32G 0% /dev/shm	
Set host name with hostnam	pe compand	
Restarting network service	28 after setting hostname	
The hostname is: mse-3365.	.cisco.com	
Add dummy address in /etc/	/hosts file	
Check /etc/hosts file		
127.0.0.1 localhost loca	alhost.localdomain localhost4 localhost4.localdomain4	
::1 localhost loca	alhost.localdomain localhost6 localhost6.localdomain6	
192.168.253.1 mse-3365 m	nse-3365.cisco.com	
Copying CISCO-HSE-L-K9-8-0	0-110-10-64bit.bin.tar.gz from the CDROM. Thu Jan 7 13:51:34 PST 2016	=
copying database files fro	an the CDROR. Thu Jan 7 14:09:19 PSI 2016	

• Option 2: Install CMX using current console—The recovery process is initiated using the current console.

Step 8 Once the image is copied, a silent installation is initiated.

Figure 11: Preparing SILENT Mode Installation



Figure 12: Running Post-Installation Scripts



Step 9 The device boots up with the newly loaded image. The CD/DVD mapping is automatically unchecked. In case it is checked, uncheck the **Activate Virtual Devices** option, so that the BIOS setting is checked for the image copied on the HDD every time it reboots.

A 1	0.154.80.	23 - KVM	Console				_					1011	x
File	View	Macros	Tools	Power	Virtual Media	Help	_						
					Create Ima	ge							
					✓ Activate Vi	rtual Devices							
					Map CD/DV	D							
We l	come	: to 1	Red	Hat E	Map Bemo	vable Disk	101	×86_64					
					Map Flopp								
					tool tool to								
_												_	
									10.154.80.23	admin	0.4 fps	0.001 KB/s	66

Figure 13: Map CD/DVD

What to do next

For more information about configuring Cisco CMX, see Configuring Cisco CMX Release 10.5.x and Later.

Uploading the Cisco CMX/MSE ISO Image to the Cisco MSE 3365 Using Older CIMC Versions

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Figure 14: Cisco Integrated Management Controller Interface

rall Server Status	C U U 🔠 0 0			
rall Server Status Moderate Fault ver Admin Storage intory sors sote Presence S er Policies Its and Logs	C C C C C C C C C C C C C C C C C C C	• Server Properties Product Name: Serial Number: PID: UUD: BIOS Version: Description: Server Status Power Status: Overall Server Status: Temperature: Power Status: Temperature: Power Status: Correct LED: Overall Storage Status: Cisco Integrated Managem Hostname:	UCS C240 M3S FCH1820V138 UCSC-C240-M3S 223FD022-0D4E-4A78-B583-34B3A928902D C240M3.1.5.4f.0 (Build Date: 11/13/2013) C240M3.1.5.4f.0 (Build Date: 11/13/2013) C240Mderate Fault Good Fault Good Off N/A cent Controller (CIMC) Information	
		IP Address: MAC Address: Eirmware Versioo	172.19.7.43 50:87:89:87:82:28 1.5(4d)	
		Current Time (UTC):	Wed Sen 16 17:39:50 2015	

- **Step 3** Click **Server** and in the **Server Summary** page, click **Launch KVM Console** and click **OK**. A mini executable file is downloaded.
- **Step 4** Open the file using javaws.exe from the bin folder of your Java installation. If a security error prevents you from installing the file, add the URL of the CIMC to the list of exception sites, using the steps below.
 - a) Choose Control Panel > Programs > Java.
 - b) Choose Security > Edit Site List > Add and add the CIMC URL.
 - c) Click OK.

The installation is initiated.

Step 5 In the KVM Console window that is displayed after the installation, click the **Virtual Media** tab.

Figure 15: KVM Console



Step 6 In the Virtual Media window that is displayed, click Add Image.

Figure 16: Virutal Media

172.19.7.43 - KVM Console		300	_ 🗆 X
ile Help			
🔓 KVM 📑 Virtual Media			
Client View			
Mapped Read Only Drive			Exit
and a second sec			Create Image
			create intege
			Add Image
			Remove Image
			Details *
Details			
Target Drive Mapped To	Read Bytes Write Bytes Duration		Line and the second
Removable Disk Not mapped		-	USB Reset
Floppy Not mapped			

Step 7 Browse and select the downloaded MSE image and click **Open**.

Figure 17: Select Downloaded Cisco MSE ISO Image

▲ 172.19.7.43 - KVM Console	_ 🗆 X
File Help	
Mapped Read Only Drive	Exit
	Create Image
	Remove Image
Dpen 🔀	Details ±
Details Target Drive Mapped To Virtual CDIDVD Not mapped File Name: Files of Type: Disk more prediction Piloppy	USB Reset

The recovery process begins.

Step 8 During the recovery process, respond to the prompt to press ENTER by starting an SSH session to the CIMC interface, as the KVM console does not permit you to press ENTER (With CSCuw32543). Use the following commands to initiate the SSH session:

ssh <cimc-ip-address>
connect host

The device boots up with the newly loaded image.

What to do next

For more information about configuring Cisco CMX, see Configuring Cisco CMX Release 10.5.x and Later.