



## About Intersight Managed Mode

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## About Intersight Managed Mode

Cisco Intersight™ is a management platform delivered as a service with embedded analytics for your Cisco and 3rd party IT infrastructure. Intersight Managed Mode (IMM) is a new architecture that manages the UCS Fabric Interconnected systems through a Redfish-based standard model. Intersight Managed Mode unifies the capabilities of the UCS Systems and the cloud-based flexibility of Intersight, thus unifying the management experience for the standalone and Fabric Interconnect attached systems. Intersight Management Model standardizes policy and operation management for UCS-FI-6454, UCS-FI-64108, UCS-FI-6536 and Cisco UCS B-Series (M5, M6), Cisco UCS C-Series (M5, M6, M7), and Cisco UCS X-Series (M6, M7) servers.

You can choose between the native UCSM Managed Mode (UMM) or Intersight Managed Mode (IMM) for the Fabric attached UCS Systems during initial setup of the Fabric Interconnects. If you choose to switch back between UMM and IMM, you must erase the present configuration and start from initial setup.



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**Note** Before erasing the configuration, you must ensure to unclaim the device from Intersight and decommission all rack servers.

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- Before you set up Intersight Managed Mode, please review the system requirements, supported hardware and software, and the steps required to migrate from UMM to IMM.
- For latest updates on Intersight features and functionality, see [Help Center](#).
- Servers in IMM mode require a minimum of Essentials license.

## Supported Hardware

### Supported Hardware for Intersight Managed Mode

This section includes the supported hardware for Intersight Managed Mode.

Table 1 lists the hardware components and the minimum required infrastructure firmware version.

Table 2 includes the supported hardware components along with the supported server and infrastructure firmware versions.

Table 3 shows the supported combination of components.

**Note**

- The Intersight Managed Mode (IMM) now supports up to 20 chassis with 160 blade servers.
- Cisco UCS 6454 and 64108 Fabric Interconnects, require the port-based licensing in IMM but will not be enforced until further notice.  
Beginning with UCS software release version 4.2(3), the Cisco UCS 6536 Fabric Interconnect supports a perpetual software license. This license activates all ports and software features of the Fabric Interconnect.
- In IMM, after discovery of a rack server, online swapping of cables on rack network adapters between Fabric Interconnects is not supported.
- The minimum supported Infrastructure firmware version for Intersight Managed Mode is 4.1(3).

**Table 1: Supported Hardware Components with Required Minimum Infrastructure Versions**

Fabric Components				
Model	Component	Sub-Component	Sub-Component Model	Minimum Infrastructure Firmware Versions
UCS-FI-6454	Fabric Interconnect			4.1(3b)
UCS-FI-64108	Fabric Interconnect			4.1(3b)
UCS-FI-6536	Fabric Interconnect			4.2(2b)
N20-C6508	Chassis			4.1(3b)
UCSB-5108-AC2		Input/Output Module (IOM)	UCS-IOM-2204XP	4.1(3b)
			UCS-IOM-2208XP UCS-IOM-2408	
		UCS-IOM-2304 UCS-IOM-2304V2	4.2(3c)	

<b>Fabric Components</b>				
<b>Model</b>	<b>Component</b>	<b>Sub-Component</b>	<b>Sub-Component Model</b>	<b>Minimum Infrastructure Firmware Versions</b>
UCSX-9508	Chassis			4.2(1e)
		X-Fabric Modules (XFM)	UCSX-F-9416	4.2(2a)
		Intelligent Fabric Module (IFM)	UCSX-I-9108-25G	4.2(1e)
			UCSX-I-9108-100G	4.2(2a)
Cisco Nexus 2232PP	Fabric Extender (FEX)			4.1(3b)
N9K-C93108YC-FX3	Fabric Extender (FEX)			4.2(2a)

Table 2: Supported Hardware Components with Required Minimum Firmware Versions

Fabric Components						
Model	Component	Sub-Component	Sub-Component Model	Minimum Infrastructure Firmware Versions	Minimum Server Firmware Versions	
UCSX-410C-M7	X-Series M7 Server			4.2(3e)	5.1(1.230052)	
		Adapters	UCSX-ML-V5Q50G (Secure Boot)	N/A	5.1(1.230052)	
			UCSX-ME-V5Q50G (Secure Boot)			
			UCSX-ML-V5D200G			
				UCSX-ML-V5D200GV2 (Secure Boot)	N/A	5.2(0.230061)
		Graphics processing unit (GPU)	UCSX-GPU-A16	N/A	5.1(1.230052)	
			UCSX-GPU-A40			
			UCSX-GPU-A100-80			
			UCSX-GPU-H100-80	N/A		5.2(0.230127)
			UCSX-GPU-L40			
		UCSX-GPU-L4				
UCSX-GPU-FLEX140						
UCSX-GPU-FLEX170						
Storage Controller	UCSX-M2-HWRAID	N/A	5.1(1.230052)			
	UCSX-X10C-RAIDF					
		UCSX-M2-PT-FPN	N/A	5.2(0.230127)		

Fabric Components					
Model	Component	Sub-Component	Sub-Component Model	Minimum Infrastructure Firmware Versions	Minimum Server Firmware Versions
UCSX-210C-M7	X-Series M7 Server			4.2(3b)	5.1(0.230096)
		Adapters	UCSX-ML-V5Q50G (Secure Boot)	N/A	5.1(0.230096)
			UCSX-ME-V5Q50G (Secure Boot)		
			UCSX-ML-V5D200G		
			UCSX-ML-V5D200GV2 (Secure Boot)	N/A	5.2(0.230061)
		Graphics processing unit (GPU)	UCSX-GPU-T4-MEZZ	N/A	5.1(0.230096)
			UCSX-GPU-A16		
			UCSX-GPU-A40		
			UCSX-GPU-A100-80	N/A	5.1(0.230096)
			UCSX-GPU-H100-80	N/A	5.2(0.230127)
		UCSX-GPU-L40			
		UCSX-GPU-L4			
		UCSX-GPU-FLEX140			
		Storage Controller	UCSX-X10C-PT4F	N/A	5.1(0.230096)
UCSX-X10C-RAIDF					
UCSX-M2-HWRAID					
	UCSX-M2-PT-FPN	N/A	5.2(0.230041)		

Fabric Components					
Model	Component	Sub-Component	Sub-Component Model	Minimum Infrastructure Firmware Versions	Minimum Server Firmware Versions
UCSX-210C-M6	X-Series M6 Server			4.2(1a)	5.0(1b)
		Adapters	UCSX-V4-Q25GML	N/A	5.0(1b)
			UCSX-V4-Q25GME		
			UCSX-ML-V5Q50G (Secure Boot)	N/A	5.1(0.230054)
			UCSX-ME-V5Q50G (Secure Boot)		
			UCSX-ML-V5D200G	N/A	5.0(2b)
			UCSX-ML-V5D200GV2 (Secure Boot)	N/A	5.2(0.230061)
		Rear Mezzanine Adapters	UCSX-V4-PCIME	N/A	5.0(2d)
		Trusted Platform Module (TPM)	UCSX-TPM1-001	4.1(3b)	N/A
			UCSX-TPM2-001		
			UCSX-TPM2-002		
			UCSX-TPM-002C		
Graphics processing unit (GPU)	UCSX-GPU-A100-80	N/A	5.0(2e)		
	UCSX-GPU-T4-MEZZ	N/A	5.0(2d)		
	UCSX-GPU-T4-16				
	UCSX-GPU-A16				
	UCSX-GPU-A40				
Storage Controller	UCSX-X10C-PT4F	N/A	5.0(4b)		
	UCSX-X10C-RAIDF				
	UCSX-M2-HWRAID				

Fabric Components					
Model	Component	Sub-Component	Sub-Component Model	Minimum Infrastructure Firmware Versions	Minimum Server Firmware Versions
UCSB-B200-M6	B-Series M6 Server			4.1(3b)	4.2(3b)
		Adapters	UCSB-ML-V5Q10G	N/A	4.2(3b)
			UCSB-MLOM-40G-04 UCSB-VIC-M84-4P	4.1(3b)	4.2(3b)
		Trusted Platform Module (TPM)	UCSX-TPM-002C	4.1(3b)	N/A
		Storage Controller	UCS-M2-HWRAID UCSB-RAID12G-M6 UCSB-MSTOR-M6 UCSB-LSTOR-PT-M6	N/A	4.2(3b)
UCSB-B200-M5 UCSB-B480-M5	B-Series M5 Server			4.1(3b)	4.1(3b)
		Adapters	UCSB-MLOM-40G-03 UCSB-VIC-M83-8P	4.1(3b)	4.2(2e)
			UCSB-MLOM-40G-04 UCSB-VIC-M84-4P	4.1(3b)	4.1(3b)
			UCSB-MLOM-PT-01	4.1(3b)	N/A
		Trusted Platform Module (TPM)	UCSX-TPM2-001, UCSX-TPM2-002	4.1(3b)	N/A
		Storage Controller	UCS-M2-HWRAID UCSB-MRAID12G UCSB-MRAID12G-HE UCSB-LSTOR-PT	N/A	4.1(3c)

Fabric Components					
Model	Component	Sub-Component	Sub-Component Model	Minimum Infrastructure Firmware Versions	Minimum Server Firmware Versions
UCSC-C220-M7	C-Series M7 Server			4.2(3b)	4.3(1.230097)
		Adapters	UCSC-M-V5Q50G	N/A	4.3(1.230097)
			UCSC-M-V5D200G		
			UCSC-P-V5D200G (Secure Boot)	4.3(2.230117)	4.3(2.230184)
			UCSC-P-V5Q50G (Secure Boot)		
			UCSC-M-V5D200GV2 (Secure Boot)	N/A	4.3(2.230258)
			UCSC-M-V5Q50GV2 (Secure Boot)		
		Graphics processing unit (GPU)	UCSC-GPU-A16	N/A	4.3(1.230097)
			UCSC-GPU-A100-80		
			UCSC-GPU-L4	N/A	4.3(2.230207)
UCSC-GPU-FLEX140					
Storage Controller	UCS-M2-NVRAID	4.3(2.230117)	4.3(2.230207)		
Virtual Drives	UCS-SD16TKA3X-EP UCS-SD32TKA3X-EP UCS-SD16TBKANK9 UCS-SD19TKA1X-EV UCS-SD38TKA1X-EV UCS-SD76TKA1X-EV UCS-SD15TKA1X-EV UCS-SD38TBKANK9 UCS-SD76TBKANK9	4.3(2.230117)	4.3(2.230207)		



Fabric Components					
Model	Component	Sub-Component	Sub-Component Model	Minimum Infrastructure Firmware Versions	Minimum Server Firmware Versions
UCSC-C240-M7	C-Series M7 Server			4.2(3b)	4.3(1.230097)
		Adapters	UCSC-M-V5Q50G	N/A	4.3(1.230097)
			UCSC-M-V5D200G		
			UCSC-P-V5D200G (Secure Boot)	4.3(2.230117)	4.3(2.230184)
			UCSC-P-V5Q50G (Secure Boot)		
		UCSC-M-V5D200GV2 (Secure Boot)	N/A	4.3(2.230258)	
			UCSC-M-V5Q50GV2 (Secure Boot)		
		Graphics processing unit (GPU)	UCSC-GPU-A16	N/A	4.3(1.230097)
			UCSC-GPU-A100-80		
			UCSC-GPU-H100-80	N/A	4.3(2.230207)
			UCSC-GPU-L40		
			UCSC-GPU-L4		
		UCSC-GPU-FLEX140			
		UCSC-GPU-FLEX170			
Storage Controller	UCS-M2-NVRAID	4.3(2.230117)	4.3(2.230207)		
Virtual Drives	UCS-SD16TKA3X-EP	4.3(2.230117)	4.3(2.230207)		
	UCS-SD32TKA3X-EP				
	UCS-SD16TBKANK9				
	UCS-SD19TKA1X-EV				
	UCS-SD38TKA1X-EV				
	UCS-SD76TKA1X-EV				
	UCS-SD15TKA1X-EV				
	UCS-SD38TBKANK9				
	UCS-SD76TBKANK9				

Fabric Components					
Model	Component	Sub-Component	Sub-Component Model	Minimum Infrastructure Firmware Versions	Minimum Server Firmware Versions
UCSC-C220-M6	C-Series M6 Server			4.1(3b)	4.1(3b)
UCSC-C240-M6		Adapters	UCSC-PCIE-C25Q-04	4.1(3b)	4.1(3b)
UCSC-C245-M6			UCSC-PCIE-C100-04		
UCSC-C225-M6			UCSC-M-V100-04	4.1(3b)	4.2(1d)
			UCSC-M-V25-04		
			UCSC-M-V5D200G	N/A	4.2(2f)
			UCSC-M-V5Q50G	N/A	4.2(2b)
			UCSC-P-V5D200G (Secure Boot)	4.3(2.230117)	4.3(2.230184)
			UCSC-P-V5Q50G (Secure Boot)		
			UCSC-M-V5D200GV2 (Secure Boot)	N/A	4.3(2.230258)
			UCSC-M-V5Q50GV2 (Secure Boot)		
	Graphics processing unit (GPU)	UCSC-GPU-A16	N/A	4.2(3b)	
		UCSC-GPU-A100-80			
	Storage Controller	UCS-M2-HWRAID	N/A	4.2(1a)	
		UCSC-RAID-M6T			
		UCSC-RAID-M6SD			
		UCSC-RAID-M6HD			
		UCSC-SAS-M6HD			
		UCSC-SAS-M6T			

Fabric Components					
Model	Component	Sub-Component	Sub-Component Model	Minimum Infrastructure Firmware Versions	Minimum Server Firmware Versions
UCSC-C220-M5 UCSC-C240-M5 UCSC-C480-M5	C-Series M5 Server			4.1(3b)	4.1(3b)
		Adapters	UCSC-MLOM-C40Q-03	4.1(3b)	4.2(2g)
			UCSC-PCIE-C40Q-03		
			UCSC-PCIE-C25Q-04	4.1(3b)	4.1(3b)
			UCSC-MLOM-C25Q-04 UCSC-PCIE-C100-04 UCSC-MLOM-C100-04		
		Graphics processing unit (GPU)	UCSC-GPU-A100-80	N/A	4.2(3b)
	Storage Controller	UCS-M2-HWRAID UCSC-RAID-M5HD UCSC-RAID-M5 UCSC-SAS-M5, UCSC-SAS-M5HD UCSC-SAS12GHBA UCSC-9400-8E	N/A	4.1(3b)	



**Note** Post Infra Firmware release 4.2(3c), the Server Firmware bundle in Intersight Infrastructure Service (IIS) will bear the version number in a new format instead of the letter format.

With Infra Firmware release 4.3(2), the Infra Firmware bundle in IIS will bear the version number in a new format instead of the letter format.

For example: 4.3(2.230117) , where 23 represents year, 0117 shows the incremental build number.

For more information on Cisco Intersight Infrastructure Firmware release notes, Server Firmware release notes, and Release Bundle Content document see [Release Notes](#).

Table 3: Supported Combination of Hardware Components in IMM

Component	Supported Combination
Topologies	<p>Direct-Attached Racks through 10G/25G/100G connections</p> <p>Break-out port configuration through 10G/25G connections</p> <p>FEX-Attached Racks through 10GE connections</p> <p>Chassis through 10G/25G/100G connections</p> <p>N9K-C93108YC-FX3 FEX through 10G/25G connections</p>
Fabric Interconnects	UCS-FI-6536 and direct-attached rack server are supported at 40G and 100G on Cisco UCS 1400 and 15000 series VIC adapters.
Input/Output Module (IOM)	<ul style="list-style-type: none"> <li>• UCS-IOM-2204XP and UCS-IOM-2208XP are not supported on Cisco UCS 6500 Series Fabric Interconnects.</li> <li>• UCS-IOM-2304 and UCS-IOM-2304V2 are supported only with Cisco UCS 6500 series Fabric Interconnect.</li> <li>• When there is a mixed IOM configuration, Access Policy deployment can fail resulting in Server Profile deployment failure. It will recover once both the IOMs are replaced.</li> </ul>
X-Fabric Modules (XFM)	UCS 9416 X-Fabric module is supported only on UCSX-9508 chassis and required for Peripheral Component Interconnect Express (PCIe) node and GPU discovery or inventory support in IMM.
Fabric Extender (FEX)	Cisco Nexus 2232PP is not supported on Cisco UCS 6500 Series Fabric Interconnects.
Rear Mezzanine Adapters	<ul style="list-style-type: none"> <li>• UCS PCI mezz card for X-Fabric connectivity.</li> <li>• The UCSX-210C Compute Node must include a UCSX-V4-PCIME or a supported mezz card when paired with a X440p PCIe node.</li> </ul>

Component	Supported Combination
Adapters	

Component	Supported Combination
	<ul style="list-style-type: none"> <li>• UCSX-X10C-GPUFM is an adapter that supports the GPU, UCSX-GPU-T4-MEZZ. For more information, see <a href="#">Cisco UCS X10c Front Mezzanine GPU Module Installation and Service Guide</a>.</li> <li>• UCSX-V4-Q25GME is a mezz card requires UCS VIC 14000 bridge connector (UCSX-V4-BRIDGE) and UCSX-V4-Q25GML mLOM support in the X210c Compute Node. For more information, see <a href="#">Cisco UCS X210c M6 Compute Node</a>.</li> <li>• The UCSX-210C Compute Node must include a UCSX-V4-PCIME or a supported mezz card when paired with a X440p PCIe node.</li> <li>• UCSX-ML-V5D200G adapter is supported on Cisco UCS 6500 series Fabric Interconnect at 40G and 100G speed, as well as on Cisco UCS 6400 series Fabric Interconnect at 25G speed.</li> <li>• Cisco UCS C-Series and X-Series M7 servers support only Cisco UCS 15000 series VIC adapters.</li> <li>• UCSX-ME-V5Q50G is a mezz card that requires UCS VIC 15000 bridge connector (UCSX-V5-BRIDGE) and UCSX-ML-V5Q50G mLOM support in the X210c Compute Node. However, this mezz adapter is not supported with UCSX-ML-V5D200G mLOM. <ul style="list-style-type: none"> <li>• On a B-series server, installing a combination of Cisco UCS 1400 and UCS 15000 series VIC adapters is not supported.</li> <li>• Cisco UCS VIC 1300 Series adapters are supported on B-Series and C-Series M5 servers with the following combination. <ul style="list-style-type: none"> <li>• UCS-FI-6454 and UCS-IOM-2408</li> <li>• UCS-FI-6536 and UCS-IOM-2408</li> <li>• UCS-FI-6454 and UCS-IOM-2204XP</li> <li>• UCS-FI-6454 and UCS-IOM-2208XP</li> <li>• UCS-FI-6536 and direct-attached rack server at 40G</li> <li>• UCS-FI-6454 and rack server connected through FEX</li> <li>• UCS-FI-6454 and direct-attached rack server with 10G QSA</li> <li>• UCS-FI-6536 and UCS-IOM-2304 or</li> </ul> </li> </ul> </li> </ul>

Component	Supported Combination
	<p>UCS-IOM-2304V2</p> <ul style="list-style-type: none"> <li>• UCS-FI-64108 and UCS-IOM-2408</li> <li>• UCS-FI-64108 and UCS-IOM-2204XP</li> <li>• UCS-FI-64108 and UCS-IOM-2208XP</li> <li>• UCS-FI-64108 and direct-attached rack server</li> <li>• UCS-FI-64108 and rack server connected through FEX</li> </ul> <ul style="list-style-type: none"> <li>• UCSC-M-V100-04, UCSC-PCIE-C100-04, UCSC-MLOM-C100-04 are supported only on Cisco UCS 6500 Series Fabric Interconnects.</li> </ul> <ul style="list-style-type: none"> <li>• The following combinations are not supported on UCS C series M6 servers: <ul style="list-style-type: none"> <li>• 1400 Series MLOM adapters with 15000 Series PCIE adapters</li> <li>• UCSC-M-V5Q50GV2 and UCSC-M-V5D200GV2 are not supported with 14xx PCIE adapters</li> </ul> </li> <li>• Ensure that you have upgraded servers to the VIC supported release versions before installing the VIC adapters into the server. If you install VIC adapters on servers running an earlier release and later decide to upgrade the servers to the supported version, you need to perform A/C power cycle for the servers to enable the adapters.</li> </ul>
Graphics processing unit (GPU)	<ul style="list-style-type: none"> <li>• All supported X-Series GPU are supported on UCS X440P with UCSX-210C-M6 and UCSX-210C-M7 Compute Nodes.</li> <li>• Mixing of GPU models are not supported in the server. For more information, see <a href="#">Cisco UCS X440p PCIe Node Installation and Service Guide</a>.</li> <li>• Specific GPUs are also supported on the X210c Compute Nodes. They require the UCSX-X10C-GPUFM adapter to support a GPU in the Front Mezz.</li> <li>• The GPU supported in the X210c M7 Front Mezz includes UCSX-GPU-T4-MEZZ. For more information, see <a href="#">Cisco UCS X10c Front Mezzanine GPU Module Installation and Service Guide</a>.</li> </ul>

