



## UCS Server BIOS Tokens

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### Server BIOS Tokens in Release 4.2(3b)

Cisco UCS Manager continues to support the following servers in 4.2(3b):

- C220 M6
- C240 M6
- C225 M6
- C245 M6
- B200 M6

For Cisco UCS C-series and B-series BIOS tokens supported on M4 and M5 servers, refer [Cisco UCS Server BIOS Tokens, Release 4.1](#).

#### New and Changed BIOS Tokens for 4.2(3b)

Name	Default Value	M6 Server Supported Values	Platform	Dependencies	New/Changed
<b>X2APIC Opt Out</b>	Disabled	Disabled, Enabled	C220M6, C240M6, B200M6		New
<b>Security Dev. Support</b>	Enabled	Disabled, Enabled	C220M6, C240M6, C225M6, C245M6, B200M6		New

## Server BIOS Tokens in Release 4.2(2c)

Cisco UCS Manager supports the following servers in 4.2(2c) release:

- C220 M6
- C240 M6

For Cisco UCS C-series and B-series BIOS tokens supported on M4 and M5 servers, refer [Cisco UCS Server BIOS Tokens, Release 4.1](#).

### BIOS Tokens for C220 M6 and C240 M6 in 4.2(2c)

The following table lists the new BIOS tokens for 4.2(2c) release:

Name	Default Value	M6 Server Supported Values	Platform	New/Changed
<b>TPM Minimal Physical Presence</b>	Disabled	Disabled, Enabled	C220 M6 and C240 M6	New
<b>DMA Control Opt-In Flag</b>	Disabled	Disabled, Enabled	C220 M6 and C240 M6	New

## Server BIOS Tokens in Release 4.2(1m)

Cisco UCS Manager continues to support the following servers in 4.2(1m):

- C220 M6
- C240 M6
- C225 M6
- C245 M6
- B200 M6

For Cisco UCS C-series and B-series BIOS tokens supported on M4 and M5 servers, refer [Cisco UCS Server BIOS Tokens, Release 4.1](#).

### New and Changed BIOS Tokens for 4.2(1m)

Name	Default Value	M6 Server Supported Values	Platform	Dependencies	New/Changed
<b>Execute Disable Bit</b>	Enabled	Disabled, Enabled	C220 M6, C240 M6, C225 M6, C245 M6, B200 M6		New

## Server BIOS Tokens in Release 4.2(11)

Cisco UCS Manager introduces support for the following servers in 4.2(11):

- C225 M6

Cisco UCS Manager continues to support the following servers in 4.2(11):

- C220 M6
- C240 M6
- C245 M6
- B200 M6

For Cisco UCS C-series and B-series BIOS tokens supported on M4 and M5 servers, refer [Cisco UCS Server BIOS Tokens, Release 4.1](#).

### BIOS Tokens for C225 M6 in 4.2(11)

Name	Default Value	M6 Server Supported Values	Platform	Dependencies
<b>MLOM Link Speed</b>	Auto	Disabled, Auto, GEN1, GEN2, GEN3, GEN4	C225 M6	
<b>MLOM OptionROM</b>	Enabled	Disabled, Enabled	C225 M6	
<b>PCIe Slot <i>n</i> Link Speed</b>	Auto	Disabled, Auto, GEN1, GEN2, GEN3, GEN4	C225 M6	The <i>n</i> refers to an integer from 1 to 3.
<b>PCIe Slot <i>n</i> OptionROM</b>	Enabled	Enabled, Disabled	C225 M6	The <i>n</i> refers to an integer from 1 to 3.
<b>MRAID Link Speed</b>	Auto	Disabled, Auto, GEN1, GEN2, GEN3, GEN4	C225 M6	
<b>MRAID OptionROM</b>	Enabled	Disabled, Enabled	C225 M6	
<b>Front NVME <i>n</i> Link Speed</b>	Auto	Disabled, Auto, GEN1, GEN2, GEN3, GEN4	C225 M6	The <i>n</i> refers to an integer from 1 to 10.
<b>Front NVME-<i>n</i> OptionROM</b>	Enabled	Enabled, Disabled	C225 M6	The <i>n</i> refers to an integer from 1 to 10.
<b>PCIe Slot MSTOR Link Speed</b>	Auto	Disabled, Auto, GEN1, GEN2, GEN3, GEN4	C225 M6	

Name	Default Value	M6 Server Supported Values	Platform	Dependencies
<b>PCIe Slot MSTOR RAID OptionROM</b>	Enabled	Enabled, Disabled	C225 M6	
<b>Core Performance Boost</b>	Auto	Disabled, Auto	C225 M6	
<b>Global C-state Control</b>	Auto	Disabled, Enabled, Auto	C225 M6	
<b>L1 Stream HW Prefetcher</b>	Auto	Disabled, Enabled, Auto	C225 M6	
<b>L2 Stream HW Prefetcher</b>	Auto	Disabled, Enabled, Auto	C225 M6	
<b>NUMA Nodes per Socket</b>	Auto	NPS0, NPS1, NPS2, NPS4, Auto	C225 M6	
<b>Memory Interleaving Size</b>	Auto	256 Bytes, 512 Bytes, 1 KB, 2 KB, 4 KB, Auto	C225 M6	
<b>Chipselect Interleaving</b>	Auto	Disabled, Auto	C225 M6	
<b>Bank Group Swap</b>	Auto	Enabled, Disabled, Auto	C225 M6	
<b>Determinism Slider</b>	Auto	Power, Performance, Auto	C225 M6	
<b>IOMMU</b>	Auto	Disabled, Enabled, Auto	C225 M6	
<b>SMT Mode</b>	Enabled	Disabled, Enabled, Auto	C225 M6	
<b>SVM Mode</b>	Enabled	Disabled, Enabled	C225 M6	
<b>Efficiency Mode Enable</b>	Auto	Auto, Enabled	C225 M6	
<b>SNP Memory Coverage</b>	Auto	Auto, Enabled, Disabled, Custom	C225 M6	
<b>SNP Memory Size to Cover in MB</b>	0	0-1048576	C225 M6	
<b>CPPC</b>	Auto	Auto, Enabled, Disabled	C225 M6	

Name	Default Value	M6 Server Supported Values	Platform	Dependencies
<b>SEV-SNP Support</b>	Disabled	Enabled, Disabled	C225 M6	
<b>SMEE</b>	Auto	Auto, Enabled, Disabled	C225 M6	
<b>CPU Downcore control 7xx3</b>	Auto	Auto, ONE (1 + 0), TWO (2 + 0), THREE (3 + 0), FOUR (4 + 0), FIVE (5 + 0), SIX (6 + 0), SEVEN (7 + 0)	C225 M6	
<b>Downcore control 7xx2</b>	Auto	Auto, TWO (1 + 1), FOUR (2 + 2), SIX (3 + 3)	C225 M6	
<b>Fixed SOC P-State</b>	Auto	P0, P1, P2, P3, Auto	C225 M6	
<b>APBDIS</b>	Auto	0, 1, Auto	C225 M6	
<b>CCD Control</b>	Auto	Auto, 2 CCDs, 3 CCDs, 4 CCDs, 6 CCDs	C225 M6	
<b>Cisco xGMI Max Speed</b>	Disabled	Disabled, Enabled	C225 M6	
<b>ACPI SRAT L3 Cache As NUMA Domain</b>	Auto	Disabled, Enabled, Auto	C225 M6	
<b>Streaming Stores Control</b>	Auto	Disabled, Enabled, Auto	C225 M6	
<b>DF C-States</b>	Auto	Disabled, Enabled, Auto	C225 M6	
<b>Burst and Postponed Refresh</b>	Disabled	Enabled, Disabled	C225 M6	
<b>SR-IOV Support</b>	Enabled	Enabled, Disabled	C225 M6	
<b>PCIe ARI Support</b>	Auto	Auto, Enabled, Disabled	C225 M6	
<b>TSME</b>	Auto	Auto, Enabled, Disabled	C225 M6	
<b>BIOS Techlog Level</b>	Minimum	Maximum, Normal, Minimum	C225 M6	
<b>OptionROM Launch Optimization</b>	Enabled	Enabled, Disabled	C225 M6	

Name	Default Value	M6 Server Supported Values	Platform	Dependencies
<b>Above 4GB Decoding</b>	Enabled	Enabled, Disabled	C225 M6	
<b>SMEE</b>	Enabled	Enabled, Disabled	C225 M6	
<b>SMT Mode</b>	Off	Auto, Off	C225 M6	
<b>SR-IOV Support</b>	Enabled	Enabled, Disabled	C225 M6	
<b>SVM Mode</b>	Enabled	Enabled, Disabled	C225 M6	
<b>Terminal type</b>	VT 100	PC-ANSI,VT100, VT100-PLUS, VT-UTF8	C225 M6	
<b>SHA-1 PCR Bank</b>	Enabled	Enabled, Disabled	C225 M6	
<b>SHA256 PCR Bank</b>	Enabled	Enabled, Disabled	C245 M6	
<b>FRB 2 Timer</b>	Enabled	Enabled, Disabled	C225 M6	
<b>OS Boot Watchdog Timer</b>	Enabled	Enabled, Disabled	C225 M6	
<b>OS Boot Watchdog Timer Policy</b>	Power Off	Power Off, Reset	C225 M6	
<b>OS Boot Watchdog Timer Timeout</b>	10 minutes	5 minutes, 10 minutes, 15 minutes, 20 minutes	C225 M6	
<b>Flow Control</b>	None	None, RTS-CTS	C225 M6	
<b>Baud rate</b>	115.2k	9.6k, 9.2k, 38.4k, 57.6k, 115.2k	C225 M6	
<b>Terminal type</b>	VT100	PC-ANSI, VT100, VT100-PLUS, VT-UTF8	C225 M6	Applicable only when Console Redirection COM 0
<b>Console redirection</b>	Disabled	Disabled, COM0, COM1 or serial-port-b	C225 M6	

## Server BIOS Tokens in Release 4.2(1i)

Cisco UCS Manager introduces support for the following servers in 4.2(1i):

- C245 M6

Cisco UCS Manager continues to support the following servers in 4.2(1i):

- C220 M6
- C240 M6
- B200 M6

For Cisco UCS C-series and B-series BIOS tokens supported on M4 and M5 servers, refer [Cisco UCS Server BIOS Tokens, Release 4.1](#).

### BIOS Tokens for C245 M6 in 4.2(1i)

Name	Default Value	M6 Server Supported Values	Platform	Dependencies
<b>MLOM Link Speed</b>	Auto	Disabled, Auto, GEN1, GEN2, GEN3, GEN4	C245 M6	
<b>MLOM OptionROM</b>	Enabled	Disabled, Enabled	C245 M6	
<b>PCIe Slot <i>n</i> Link Speed</b>	Auto	Disabled, Auto, GEN1, GEN2, GEN3, GEN4	C245 M6	The <i>n</i> refers to an integer from 1 to 8.
<b>PCIe Slot <i>n</i> OptionROM</b>	Enabled	Enabled, Disabled	C245 M6	The <i>n</i> refers to an integer from 1 to 8.
<b>MRAID<i>n</i> Link Speed</b>	Auto	Disabled, Auto, GEN1, GEN2, GEN3, GEN4	C245 M6	The <i>n</i> refers to an integer 1 or 2.
<b>MRAID<i>n</i> OptionROM</b>	Enabled	Disabled, Enabled	C245 M6	The <i>n</i> refers to an integer 1 or 2.
<b>Front NVME <i>n</i> Link Speed</b>	Auto	Disabled, Auto, GEN1, GEN2, GEN3, GEN4	C245 M6	The <i>n</i> refers to an integer from 1 to 4.
<b>Front NVME-<i>n</i> OptionROM</b>	Enabled	Enabled, Disabled	C245 M6	The <i>n</i> refers to an integer from 1 to 4.

Name	Default Value	M6 Server Supported Values	Platform	Dependencies
Rear NVME <i>n</i> Link Speed	Auto	Disabled, Auto, GEN1, GEN2, GEN3, GEN4	C245 M6	The <i>n</i> refers to an integer from 1 to 4.
Rear NVME <i>n</i> OptionROM	Enabled	Enabled, Disabled	C245 M6	The <i>n</i> refers to an integer from 1 to 4.
PCIe Slot MSTOR Link Speed	Auto	Disabled, Auto, GEN1, GEN2, GEN3, GEN4	C245 M6	
PCIe Slot MSTOR RAID OptionROM	Enabled	Enabled, Disabled	C245 M6	
FRB 2 Timer	Enabled	Enabled, Disabled	C245 M6	
OS Boot Watchdog Timer Policy	Power Off	Power Off, Reset	C245 M6	
Flow Control	None	None, RTS-CTS	C245 M6	
Baud rate	115.2k	9.6k, 9.2k, 38.4k, 57.6k, 115.2k	C245 M6	
Terminal type	VT100	PC-ANSI, VT100, VT100-PLUS, VT-UTF8	C245 M6	Applicable only when Console Redirection COM 0
Console redirection	Disabled	COM 0, COM 1, Disabled	C245 M6	Applicable only when Console Redirection COM 0
Trusted Platform Module State	Enabled	Enabled, Disabled	C245 M6	
SHA-1 PCR Bank	Enabled	Enabled, Disabled	C245 M6	
SHA256 PCR Bank	Enabled	Enabled, Disabled	C245 M6	
Post Package Repair	Hard PPR	Disabled, Hard PPR	C245 M6	



<b>Name</b>	<b>Default Value</b>	<b>M6 Server Supported Values</b>	<b>Platform</b>	<b>Dependencies</b>
<b>Above 4G Decoding</b>	Enabled	Enabled, Disabled	C245 M6	
<b>CDN Control</b>	Enabled	Enabled, Disabled	C245 M6	
<b>OptionROM Launch Optimization</b>	Enabled	Enabled, Disabled	C245 M6	
<b>BIOS Techlog Level</b>	Minimum	Maximum, Normal, Minimum	C245 M6	
<b>Power ON Password</b>	Disabled	Enabled, Disabled	C245 M6	
<b>IPv6 PXE Support</b>	Disabled	Enabled, Disabled	C245 M6	
<b>BME DMA Mitigation</b>	Disabled	Enabled, Disabled	C245 M6	
<b>Network Stack</b>	Enabled	Enabled, Disabled	C245 M6	
<b>IPv4 PXE Support</b>	Enabled	Enabled, Disabled	C245 M6	
<b>IPv4 HTTP Support</b>	Enabled	Enabled, Disabled	C245 M6	
<b>IPv6 HTTP Support</b>	Enabled	Enabled, Disabled	C245 M6	
<b>Core Performance Boost</b>	Auto	Disabled, Auto	C245 M6	
<b>Global C-state Control</b>	Auto	Disabled, Enabled, Auto	C245 M6	
<b>L1 Stream HW Prefetcher</b>	Auto	Disabled, Enabled, Auto	C245 M6	
<b>L2 Stream HW Prefetcher</b>	Auto	Disabled, Enabled, Auto	C245 M6	
<b>NUMA Nodes per Socket</b>	Auto	NPS0, NPS1, NPS2, NPS4, Auto	C245 M6	
<b>Memory Interleaving Size</b>	Auto	256 Bytes, 512 Bytes, 1 KB, 2 KB, 4 KB, Auto	C245 M6	

Name	Default Value	M6 Server Supported Values	Platform	Dependencies
Chipselect Interleaving	Auto	Disabled, Auto	C245 M6	
Bank Group Swap	Auto	Enabled, Disabled, Auto	C245 M6	
Determinism Slider	Auto	Power, Performance, Auto	C245 M6	
IOMMU	Auto	Disabled, Enabled, Auto	C245 M6	
SMT Mode	Enabled	Disabled, Enabled, Auto	C245 M6	
SVM Mode	Enabled	Disabled, Enabled	C245 M6	
Efficiency Mode Enable	Auto	Auto, Enabled	C245 M6	
SNP Memory Coverage	Auto	Auto, Enabled, Disabled, Custom	C245 M6	
SNP Memory Size to Cover in MB	0	0-1048576	C245 M6	
CPPC	Auto	Auto, Enabled, Disabled	C245 M6	
SEV-SNP Support	Disabled	Enabled, Disabled	C245 M6	
SMEE	Auto	Auto, Enabled, Disabled	C245 M6	
CPU Downcore control 7xx3	Auto	Auto, ONE (1 + 0), TWO (2 + 0), THREE (3 + 0), FOUR (4 + 0), FIVE (5 + 0), SIX (6 + 0), SEVEN (7 + 0)	C245 M6	
Fixed SOC P-State	Auto	P0, P1, P2, P3, Auto	C245 M6	
APBDIS	Auto	0, 1, Auto	C245 M6	
CCD Control	Auto	Auto, 2 CCDs, 3 CCDs, 4 CCDs, 6 CCDs	C245 M6	
Cisco xGMI Max Speed	Disabled	Disabled, Enabled	C245 M6	

<b>Name</b>	<b>Default Value</b>	<b>M6 Server Supported Values</b>	<b>Platform</b>	<b>Dependencies</b>
<b>ACPI SRAT L3 Cache As NUMA Domain</b>	Auto	Disabled, Enabled, Auto	C245 M6	
<b>Streaming Stores Control</b>	Auto	Disabled, Enabled, Auto	C245 M6	
<b>DF C-States</b>	Auto	Disabled, Enabled, Auto	C245 M6	
<b>Post Package Repair</b>	Hard PPR	Disabled, Hard PPR	C245 M6	
<b>Burst and Postponed Refresh</b>	Disabled	Enabled, Disabled	C245 M6	
<b>SR-IOV Support</b>	Enabled	Enabled, Disabled	C245 M6	
<b>PCIe ARI Support</b>	Auto	Auto, Enabled, Disabled	C245 M6	
<b>TSME</b>	Auto	Auto, Enabled, Disabled	C245 M6	
<b>BIOS Techlog Level</b>	Minimum	Maximum, Normal, Minimum	C245 M6	
<b>OptionROM Launch Optimization</b>	Enabled	Enabled, Disabled	C245 M6	
<b>Above 4GB Decoding</b>	Enabled	Enabled, Disabled	C245 M6	
<b>SMEE</b>	Enabled	Enabled, Disabled	C245 M6	
<b>SMT Mode</b>	Off	Auto, Off	C245 M6	
<b>SR-IOV Support</b>	Enabled	Enabled, Disabled	C245 M6	
<b>SVM Mode</b>	Enabled	Enabled, Disabled	C245 M6	
<b>Terminal type</b>	VT 100	PC-ANSI,VT100, VT100-PLUS, VT-UTF8	C245 M6	
<b>OS Boot Watchdog Timer</b>	Enabled	Enabled, Disabled	C245 M6	

Name	Default Value	M6 Server Supported Values	Platform	Dependencies
<b>OS Boot Watchdog Timer Timeout</b>	10 minutes	5 minutes, 10 minutes, 15 minutes, 20 minutes	C245 M6	

## Server BIOS Tokens in Release 4.2(1f)

Cisco UCS Manager supports the following servers in 4.2(1f) release:

- C220 M6
- C240 M6
- B200 M6

The following table lists the new and updated BIOS tokens for 4.2(1f) release.

**Table 1: New and Updated BIOS Tokens 4.2(1f)**

Name	Default Value	Server Supported Values	Platform	New/Changed
<b>Enhanced CPU Performance</b>	Disabled	Disabled, Auto	C220 M6, C240 M6, and B200 M6	New
<b>UPI Link Enablement</b>	Auto	Auto, 1, 2	C220 M6, C240 M6, and B200 M6	New
<b>Virtual Numa</b>	Disabled	Enabled, Disabled	C220 M6, C240 M6, and B200 M6	New
<b>LLC Dead Line</b>	Enabled	Auto, Enabled, Disabled	C220 M6, C240 M6, and B200 M6	New
<b>C1 Auto Demotion</b>	Enabled	Enabled, Disabled	C220 M6, C240 M6, and B200 M6	New
<b>C1 Auto UnDemotion</b>	Enabled	Enabled, Disabled	C220 M6, C240 M6, and B200 M6	New
<b>XPT Remote Prefetch</b>	Auto	Auto, Enabled, Disabled	C220 M6, C240 M6, and B200 M6	New
<b>UPI Power Management</b>	Disabled	Disabled, Enabled	C220 M6, C240 M6, and B200 M6	New
<b>SHA-1 PCR Bank</b>	Enabled	Disabled, Enabled	C220 M6, C240 M6, and B200 M6	New
<b><del>SHA256 PCR Bank</del></b>	Enabled	Disabled, Enabled	C220 M6, C240 M6, and B200 M6	New

<b>Name</b>	<b>Default Value</b>	<b>Server Supported Values</b>	<b>Platform</b>	<b>New/Changed</b>
<b>FRB 2 Timer</b>	Enabled	Enabled, Disabled	C220 M6, C240 M6, and B200 M6	New
<b>OS Boot Watchdog Timer Policy</b>	Power Off	Power Off, Reset	C220 M6, C240 M6, and B200 M6	New
<b>OS Boot Watchdog Timer</b>	Enabled	Enabled, Disabled	C220 M6, C240 M6, and B200 M6	New
<b>Flow Control</b>	None	None, RTS-CTS	C220 M6, C240 M6, and B200 M6	New
<b>Legacy USB Support</b>	Enabled	Enabled, Disabled, Auto	C220 M6, C240 M6, and B200 M6	New
<b>Baud rate</b>	115.2k	9.6k, 9.2k, 38.4k, 57.6k, 115.2k	C220 M6, C240 M6, and B200 M6	New
<b>Terminal type</b>	VT100	PC-ANSI, VT100, VT100-PLUS, VT-UTF8	C220 M6, C240 M6, and B200 M6	New
<b>Console redirection</b>	Disabled	Disabled, COM0, COM1 or serial-port-b	C220 M6, C240 M6, and B200 M6	New
<b>Trusted Platform Module Support</b>	Enabled	Enabled, Disabled	C220 M6, C240 M6, and B200 M6	New
<b>TPM Pending operation</b>	None	None, TpmClear	C220 M6, C240 M6, and B200 M6	New
<b>Intel VT for directed IO</b>	Enabled	Enabled, Disabled	C220 M6, C240 M6, and B200 M6	New
<b>Intel VTD coherency support</b>	Disabled	Enabled, Disabled	C220 M6, C240 M6, and B200 M6	New
<b>Intel Trusted Execution Technology Support</b>	Disabled	Enabled, Disabled	C220 M6, C240 M6, and B200 M6	New

Name	Default Value	Server Supported Values	Platform	New/Changed
<b>Intel Virtualization Technology</b>	Enabled	Enabled, Disabled	C220 M6, C240 M6, and B200 M6	New
<b>MLOM OptionROM</b>	Enabled	Disabled, Enabled	C220 M6, C240 M6, and B200 M6	New
<b>OS Boot Watchdog Timer Timeout</b>	10 minutes	5 minutes, 10 minutes, 15 minutes, 20 minutes	C220 M6, C240 M6, and B200 M6	New
<b>Select Memory RAS Configuration</b>	ADDDC Sparing	Maximum performance, Mirror-mode-1lm, ADDDC Sparing, Partial mirror-mode-1lm	C220 M6, C240 M6, and B200 M6	New
<b>Turbo Mode</b>	Enabled	Enabled, Disabled	C220 M6, C240 M6, and B200 M6	New
<b>EIST PSD Function</b>	HW all	HW all, SW all	C220 M6, C240 M6, and B200 M6	New
<b>Uncore Frequency Scaling</b>	Enabled	Enabled, Disabled	C220 M6, C240 M6, and B200 M6	New
<b>SpeedStep (Pstates)</b>	Enabled	Enabled, Disabled	C220 M6, C240 M6, and B200 M6	New
<b>LIMIT CPU PA to 46 Bits</b>	Enabled	Enabled, Disabled	C220 M6, C240 M6, and B200 M6	Changed
<b>Virtual NUMA</b>	Disabled	Enabled, Disabled, Auto	C220 M6, C240 M6, and B200 M6	Changed
<b>LLC Dead Line</b>	Enabled	Enabled, Disabled, Auto	C220 M6, C240 M6, and B200 M6	Changed
<b>XPT Remote Prefetch</b>	Auto	Enabled, Disabled, Auto	C220 M6, C240 M6, and B200 M6	Changed
<b>Slot 9 State</b>	Disabled	Enabled, Disabled, UEFI Only, Legacy Only	C220 M6, C240 M6, and B200 M6	Changed

## Server BIOS Tokens in Release 4.2(1d)

Cisco UCS Manager introduces support for the following servers in 4.2(1d):

- C220 M6—[BIOS Tokens for C220 M6 and C240 M6 in 4.2\(1d\), on page 15](#)
- C240 M6—[BIOS Tokens for C220 M6 and C240 M6 in 4.2\(1d\), on page 15](#)
- B200 M6—[BIOS Tokens for B200 M6 in 4.2\(1d\), on page 19](#)

Cisco UCS Manager continues to support the following servers in 4.2(1d):

- B200 M5
- B480 M5
- C220 M5
- C240 M5
- C240 SD M5
- C480 M5
- S3260 M5
- C125 M5
- C480 M5 ML
- C220 M4
- C240 M4
- C460 M4
- S3260 M4

For Cisco UCS C-series and B-series BIOS tokens supported on M4 and M5 servers, refer [Cisco UCS Server BIOS Tokens, Release 4.1](#). In addition, refer the following [New and Changed BIOS Tokens for M5 servers in 4.2\(1d\), on page 24](#) for updated M5 server support.

### BIOS Tokens for C220 M6 and C240 M6 in 4.2(1d)

Name	Default Value	Server Supported Values	Platform	Dependencies
Core Multi Processing	All	All, 1 to 48	C220 M6 and C240 M6	

Name	Default Value	Server Supported Values	Platform	Dependencies
<b>CR QoS</b>	Mode 0 - Disable the PMem QoS Feature	Recipe 1, Recipe 2, Recipe 3, Disabled, Mode 0 - Disable the PMem QoS Feature, Mode 1 - M2M QoS Enable ;CHA QoS Disable, Mode 2 - M2M QoS Enable;CHA QoS Enable	C220 M6 and C240 M6	
<b>IIO eDPC Support</b>	OnFatal and Non-Fatal Errors	On Fatal Error, Disabled, OnFatal and Non-Fatal Errors	C220 M6 and C240 M6	
<b>Multikey Total Memory Encryption (MK-TME)</b>	Disabled	Enabled, Disabled	C220 M6 and C240 M6	
<b>SW Guard Extensions (SGX)</b>	Disabled	Enabled, Disabled	C220 M6 and C240 M6	
<b>Total Memory Encryption (TME)</b>	Disabled	Enabled, Disabled	C220 M6 and C240 M6	
<b>Select Owner EPOCH input type</b>	Manual User Defined Owner EPOCHs	SGX Owner EPOCH activated, Change to New Random Owner EPOCHs, Manual User Defined Owner EPOCHs	C220 M6 and C240 M6	
<b>UPI Prefetch</b>	Auto	Auto, Enabled, Disabled	C220 M6 and C240 M6	
<b>Partial Cache Line Sparing</b>	Enabled	Enabled, Disabled	C220 M6 and C240 M6	



Name	Default Value	Server Supported Values	Platform	Dependencies
Select PPR type configuration	Hard PPR	Hard PPR, Soft PPR, Disabled	C220 M6 and C240 M6	
SGX Auto MP Registration Agent	Disabled	Enabled, Disabled	C220 M6 and C240 M6	
SProcessor Epoch $n$	0	$n$	C220 M6 and C240 M6	
SGX Factory Reset	Disabled	Enabled, Disabled	C220 M6 and C240 M6	
SGX PUBKEY HASH $n$	0	SGX PUBKEY HASH0-Between 7-0, SGX PUBKEY HASH1-Between 15-8, SGX PUBKEY HASH2-Between 23-16, SGX PUBKEY HASH3-Between 31-24	C220 M6 and C240 M6	
SGX Write Enable	Enabled	Enabled, Disabled	C220 M6 and C240 M6	
SGX Pkg info In-Band Access	Disabled	Enabled, Disabled	C220 M6 and C240 M6	
SGX QoS	Enabled	Enabled, Disabled	C220 M6 and C240 M6	
Enhanced Memory Test	Auto	Auto, Disabled, Enabled	C220 M6 and C240 M6	
Intel Dynamic Speed Select	Disabled	Enabled, Disabled	C220 M6 and C240 M6	
Intel Speed Select	Base	Base, Config 1, Config 2, Config 3, Config 4	C220 M6 and C240 M6	

Name	Default Value	Server Supported Values	Platform	Dependencies
<b>UPI Link Frequency Select</b>	Auto	9.6GT/s, 10.4GT/s, 11.2GT/s, Auto, Use Per Link Setting	C220 M6 and C240 M6	
<b>UMA Clustering</b>	Hemisphere(2-clusters)	Hemisphere(2-clusters), Disable(All-2-All)	C220 M6 and C240 M6	
<b>MLOM Link Speed</b>	Auto	Auto, Disabled, Enabled, GEN1,GEN2, GEN3, GEN4	C220 M6 and C240 M6	
<b>PCIe Slot MSTOR-RAID Link Speed</b>	Auto	Auto, Disabled, Enabled, GEN1,GEN2, GEN3, GEN4	C220 M6 and C240 M6	
<b>MRAID Link Speed</b>	Auto	Auto, Disabled, Enabled, GEN1, GEN2, GEN3,GEN4	C220 M6	
<b>MRAID-<i>n</i> Link Speed</b>	Auto	Auto, Disabled, Enabled, GEN1,GEN2, GEN3, GEN4	C240 M6	The <i>n</i> refers to an integer from 1 to 2.
<b>MRAID-<i>n</i> OptionROM</b>	Enabled	Enabled, Disabled	C240 M6	The <i>n</i> refers to an integer from 1 to 2.
<b>Front Nvme-<i>n</i> OptionROM</b>	Enabled	Disabled, Enabled	For <i>n</i> ranging from 1 to 10 supports C220 M6 and C240 M6  <i>n</i> ranging 11 and 24 supports C240 M6	
<b>Front NVME-<i>n</i> Link Speed</b>	Auto	Auto, Disabled, Enabled, GEN1,GEN2, GEN3, GEN4	For <i>n</i> ranging from 1 to 10 supports C220 M6 and C240 M6  <i>n</i> ranging 11 and 10 supports C240 M6	The <i>n</i> refers to an integer from 1 to 12.
<b>PCIe Slot <i>n</i> Link Speed</b>	Auto	Auto, Disabled, GEN1,GEN2, GEN3, GEN4	C240 M6	The <i>n</i> refers to an integer from 4 to 8.

Name	Default Value	Server Supported Values	Platform	Dependencies
<b>PCIe Slot <i>n</i> OptionROM</b>	Enabled	Enabled, Disabled	C240 M6	The <i>n</i> refers to an integer from 4 to 8.
<b>Rear NVME<i>n</i> Link Speed</b>	Auto	Auto, Disabled, Enabled, GEN1, GEN2, GEN3, GEN4	C240 M6	The <i>n</i> refers to an integer from 1 to 4.
<b>Rear NVME<i>n</i> Option ROM</b>	Auto	Auto, Disabled, Enabled, GEN1, GEN2, GEN3, GEN4	C240 M6	The <i>n</i> refers to an integer from 1 to 4.
<b>eADR Support</b>	Disabled	Auto, Enabled, Disabled	C220 M6 and C240 M6	
<b>Volatile Memory Mode</b>	2LM	2LM, 1LM	C220 M6 and C240 M6	
<b>Memory Bandwidth Boost</b>	Enabled	Enabled, Disabled	C220 M6 and C240 M6	
<b>CR FastGo Config</b>	Auto	Auto, Default, Option 1, Option 2, Option 3, Option 4, Option 5, Enable Optimization, Disable Optimization	C220 M6 and C240 M6	
<b>Memory Refresh Rate</b>	2x Refresh	1x Refresh, 2x Refresh	C220 M6 and C240 M6	
<b>Console redirection</b>	Disabled	Disabled, COM0, COM1 or serial-port-b	C220 M6 and C240 M6	

#### BIOS Tokens for B200 M6 in 4.2(1d)

Name	Default Value	Server Supported Values	Platform	Dependencies
<b>Core Multi Processing</b>	All	All, 1 to 48	B200 M6	

Name	Default Value	Server Supported Values	Platform	Dependencies
<b>CR QoS</b>	Mode 0 - Disable the PMem QoS Feature	Recipe 1, Recipe 2, Recipe 3, Disabled, Mode 0 - Disable the PMem QoS Feature, Mode 1 - M2M QoS Enable ;CHA QoS Disable, Mode 2 - M2M QoS Enable;CHA QoS Enable	B200 M6	
<b>IIO eDPC Support</b>	OnFatal and Non-Fatal Errors	On Fatal Error, Disabled, OnFatal and Non-Fatal Errors	B200 M6	
<b>Multikey Total Memory Encryption (MK-TME)</b>	Disabled	Enabled, Disabled	B200 M6	
<b>SW Guard Extensions (SGX)</b>	Disabled	Enabled, Disabled	B200 M6	
<b>Total Memory Encryption (TME)</b>	Disabled	Enabled, Disabled	B200 M6	
<b>Select Owner EPOCH input type</b>	Manual User Defined Owner EPOCHs	SGX Owner EPOCH activated, Change to New Random Owner EPOCHs, Manual User Defined Owner EPOCHs	B200 M6	
<b>UPI Prefetch</b>	Auto	Auto, Enabled, Disabled	B200 M6	
<b>Partial Cache Line Sparing</b>	Enabled	Enabled, Disabled	B200 M6	

Name	Default Value	Server Supported Values	Platform	Dependencies
Select PPR type configuration	Hard PPR	Hard PPR, Soft PPR, Disabled	B200 M6	
SGX Auto MP Registration Agent	Disabled	Enabled, Disabled	B200 M6	
SProcessor Epoch $n$	0	$n$	B200 M6	
SGX Factory Reset	Disabled	Enabled, Disabled	B200 M6	
SGX PUBKEY HASH $n$	0	SGX PUBKEY HASH0-Between 7-0, SGX PUBKEY HASH1-Between 15-8, SGX PUBKEY HASH2-Between 23-16, SGX PUBKEY HASH3-Between 31-24	B200 M6	
SGX Write Enable	Enabled	Enabled, Disabled	B200 M6	
SGX Pkg info In-Band Access	Disabled	Enabled, Disabled	B200 M6	
SGX QoS	Enabled	Enabled, Disabled	B200 M6	
Enhanced Memory Test	Auto	Auto, Disabled, Enabled	B200 M6	
Intel Dynamic Speed Select	Disabled	Enabled, Disabled	B200 M6	
Intel Speed Select	Base	Base, Config 1, Config 2, Config 3, Config 4	B200 M6	

Name	Default Value	Server Supported Values	Platform	Dependencies
<b>UPI Link Frequency Select</b>	Auto	9.6GT/s, 10.4GT/s, 11.2GT/s, Auto, Use Per Link Setting	B200 M6	
<b>UMA Clustering</b>	Hemisphere(2-clusters)	Hemisphere(2-clusters), Disable(All-2-All)	B200 M6	
<b>eADR Support</b>	Disabled	Auto, Enabled, Disabled	B200 M6	
<b>Volatile Memory Mode</b>	2LM	2LM, 1LM	B200 M6	
<b>Memory Bandwidth Boost</b>	Enabled	Enabled, Disabled	B200 M6	
<b>CR FastGo Config</b>	Auto	Auto, Default, Option 1, Option 2, Option 3, Option 4, Option 5, Enable Optimization, Disable Optimization	B200 M6	
<b>Memory Refresh Rate</b>	2x Refresh	1x Refresh, 2x Refresh	B200 M6	
<b>Console redirection</b>	Disabled	Disabled, COM0, COM1 or serial-port-b	B200 M6	
<b>Terminal type</b>	VT100	PC-ANSI, VT100, VT100-PLUS, VT-UTF8	B200 M6	
<b>TPM Support</b>	Enabled	Enabled, Disabled	B200 M6	
<b>TPM Pending operation</b>	None	None, TpmClear	B200 M6	
<b>SHA-1 PCR Bank</b>	Enabled	Enabled, Disabled	B200 M6	

Name	Default Value	Server Supported Values	Platform	Dependencies
<b>SHA256 PCR Bank</b>	Enabled	Enabled, Disabled	B200 M6	
<b>Flow Control</b>	None	None, RTS-CTS	B200 M6	
<b>Baud rate</b>	115.2k	9.6k, 9.2k, 38.4k, 57.6k, 115.2k	B200 M6	
<b>OS Boot Watchdog Timer</b>	Enabled	Enabled, Disabled	B200 M6	
<b>OS Boot Watchdog Timer Timeout</b>	10 minutes	5 minutes, 10 minutes, 15 minutes, 20 minutes	B200 M6	
<b>OS Boot Watchdog Timer Policy</b>	Power Off	Power Off, Reset	B200 M6	
<b>Intel VT for directed IO</b>	Enabled	Enabled, Disabled	B200 M6	
<b>Intel VTD coherency support</b>	Disabled	Enabled, Disabled	B200 M6	
<b>Intel Trusted Execution Technology Support</b>	Disabled	Enabled, Disabled	B200 M6	
<b>Intel Virtualization Technology</b>	Enabled	Enabled, Disabled	B200 M6	
<b>Legacy USB Support</b>	Enabled	Enabled, Disabled, Auto	B200 M6	

## New and Changed BIOS Tokens for M5 servers in 4.2(1d)

Name	Default Value	Server Supported Values	Platform	Dependencies	New/Changed
<b>MRAID Link Speed</b>	Auto	Auto, Disabled, Enabled, GEN1, GEN2, GEN3, GEN4	C220 M5 and C240 M5		Changed
<b>RAID-<i>n</i> Link Speed</b>	Auto	Auto, Disabled, Enabled, GEN1, GEN2, GEN3, GEN4	C480 M5		Changed
<b>PCIe Slot MRAID-<i>n</i> OptionROM</b>	Enabled	Enabled, Disabled	C220 M5 and C240 M5		Changed
<b>Front NVME<sub><i>n</i></sub> Link Speed</b>	Auto	Auto, Disabled, Enabled, GEN1, GEN2, GEN3, GEN4	C220 M5 and C240 M5		Changed
<b>PCIe Slot <i>n</i> Link Speed</b>	Auto	Auto, Disabled, GEN1, GEN2, GEN3, GEN4	C220 M5, C240 M5, C480 M5, and C125 M5		Changed
<b>Rear NVME<sub><i>n</i></sub> Link Speed</b>	Auto	Auto, Disabled, Enabled, GEN1, GEN2, GEN3, GEN4	C240 M5		Changed
<b>Select Memory RAS Configuration</b>	ADDDC Sparing	Maximum, Mirror-mode-1lm, ADDDC Sparing, Patch-mode-1lm	C240 M5		Changed
<b>Turbo Mode</b>	Enabled	Enabled, Disabled	C240 M5		Changed
<b>EIST PSD Function</b>	HW all	HW all, SW all	C240 M5		Changed



<b>Name</b>	<b>Default Value</b>	<b>Server Supported Values</b>	<b>Platform</b>	<b>Dependencies</b>	<b>New/Changed</b>
<b>Uncore Frequency Scaling</b>	Enabled	Enabled, Disabled	C240 M5		Changed
<b>SpeedStep (Pstates)</b>	Enabled	Enabled, Disabled	C240 M5		Changed

