

Cisco UCS B-Series Servers Upgrade Guide for Intel E5-2600/E5 2400 v2 Series CPUs



You must follow the procedures in this guide when upgrading an existing server to use Intel E5-2600/E5-2400 v2 Series CPUs. Failure to follow these procedures might result in a non-bootable server.

This document describes the process for successfully upgrading a Cisco UCS B-Series server to use Intel E5-2600/E5-2400 v2 Series CPUs. Downgrade scenarios are also covered.

The procedures in this guide support the following servers:

- Cisco UCS B200 M3 blade server
- Cisco UCS B22 M3 blade server



Cisco UCS B200 Server Generation M2 does not support the Intel E5-2600 v2 Series CPUs.



Cisco UCS Blade Server

This section contains the following topics:

- Minimum Software and Firmware Requirements, page 2
- Upgrading the B200 M3 Server to Intel E5-2600 v2 Series CPUs, page 3
- Upgrading the B22 M3 Server to Intel E5-2400 v2 Series CPUs, page 9
- Downgrading the Cisco B200 M3 Server From Intel E5-2600 v2 Series CPUs, page 14
- Sample Board Controller Activation Command Sequence, page 15
- Downgrading the Cisco B22 M3 Server From Intel E5-2400 v2 Series CPUs, page 17
- Sample Board Controller Activation Command Sequence, page 18

Minimum Software and Firmware Requirements

Cisco UCS B200 M3 Requirements

The minimum software and firmware versions required for the Cisco UCS B200 M3 server to support Intel E5-2600 v2 Series CPUs are as follows:

Table 1

2 Cisco UCS B200 M3 Minimum Software and Firmware Requirements

Software or Firmware	Minimum Version	
Cisco UCS Manager	2.1(3a)	
Server CIMC	2.1(3a)	
Server BIOS	2.1(3a)	
Board controller firmware	8.0	

Cisco UCS B22 M3 Requirements

The minimum software and firmware versions required for the Cisco UCS B22 M3 server to support Intel E5-2400 v2 Series CPUs are as follows:

Table 2 Cisco UCS B22 M3 Minimum Software and Firmware Requirements

Software or Firmware	Minimum Version
Cisco UCS Manager	2.2(2c)
Server CIMC	2.2(2c)
Server BIOS	2.2(2c)
Board controller firmware	13.0

Upgrading the B200 M3 Server to Intel E5-2600 v2 Series CPUs



These upgrade procedures require server downtime.

This section contains the following topics:

- Upgrade Scenario 1: UCSM and BIOS Earlier Than Version 2.1(3a), CPU Earlier Than Intel E5-2600 v2, page 4
- Upgrade Scenario 2: UCSM and BIOS at Version 2.1(3a) or Later, CPU Earlier Than Intel E5-2600 v2, page 5
- Upgrade Scenario 3: UCSM at Version 2.1(3a) or Later, CPU is Intel E5-2600 v2, BIOS on Spare Earlier Than Version 2.1(3a), page 7

Upgrade Scenario 1: UCSM and BIOS Earlier Than Version 2.1(3a), CPU Earlier Than Intel E5-2600 v2

This scenario assumes the following conditions:

- The Cisco UCS Manager software is at a version earlier than 2.1(3a).
- The server is at a BIOS/CIMC version earlier than 2.1(3a).
- The server is using CPUs earlier than Intel E5-2600 v2 Series.

In this case, use the following procedure to upgrade the server and CPUs.

Step 1 Upgrade the Cisco UCS Manager software to version 2.1(3a) or later. The required server CIMC and BIOS are also included with the 2.1(3a) download bundle.

Use the procedures in the appropriate upgrade guide for Release 2.1 (depending on your current software version): Release 2.1 Upgrade Guides.

- **Step 2** Use Cisco UCS Manager 2.1(3a) to upgrade and activate the server CIMC to version 2.1(3a) or later. Use the procedures in the GUI or CLI Firmware Management Guide, Release 2.1.
- Step 3 Use Cisco UCS Manager 2.1(3a) to upgrade and activate the server BIOS to version 2.1(3a) or later. Use the procedures in the GUI or CLI Firmware Management Guide, Release 2.1.
- **Step 4** Disassociate the server in Cisco UCS Manager.
- **Step 5** Power off the server.
- **Step 6** Replace the CPUs with the Intel E5-2600 v2 Series CPUs.

Use the procedures in the Blade Server Installation and Service Note for your server.

- **Step 7** Reinsert the server to the chassis.
- **Step 8** Wait for Cisco UCS Manager to automatically discover the server.

Note

At this point, the Health LED of the server shows a critical fault and Cisco UCS Manager reports a generic error message: WILL_BOOT_FAULT: Sensor failure asserted. This is because a board controller activation is required, as described in the next step.

Step 9 Perform a board controller activation by using the Cisco UCS Manager CLI interface. Use the following sequence of commands:

<u>Note</u>

The **show image** command in the sequence below lists the board controller versions available for the server. Always activate the latest board controller image version when you use the **activate firmware** command.

Note The server automatically reboots after the **commit-buffer** command is executed.

scope server <chassis/server>
scope boardcontroller
show image
activate firmware <boardcontroller version>.0 force
commit-buffer

See also Sample Board Controller Activation Command Sequence, page 15.

Step 10 Do not continue with the next step until the board controller activation completes. Verify whether the activation is complete by using the **show version** command.

As shown in the example below, wait until the Activate-Status returns Ready. This process takes a few minutes before the Activate-status is successfully completed and returns Ready.

```
# show version
BoardController:
    Running-Vers: 8.0
    Package-Vers:
    Activate-Status: Ready
```

Step 11 Clear the WILL_BOOT_FAULT by using the Cisco UCS Manager GUI to reset the server CIMC:

- a. In the Navigation pane, click the Equipment tab.
- **b.** On the **Equipment** tab, expand **Equipment > Chassis > Chassis number > Servers**, then choose your server.
- c. In the Work pane, click the General tab.
- d. In the Actions area, click Recover Server.
- e. In the Recover Server dialog, click Reset CIMC (Server Controller), then click OK.

Wait for CIMC to reboot and for Cisco UCS Manager to do a shallow discovery of the server. This takes two to three minutes. At the end of this process the WILL_BOOT_FAULT is cleared.

Upgrade Scenario 2: UCSM and BIOS at Version 2.1(3a) or Later, CPU Earlier Than Intel E5-2600 v2

This scenario assumes the following conditions:

- The Cisco UCS Manager software is at version 2.1(3a) or later.
- The server is already using BIOS/CIMC version 2.1(3a) or later.
- The server is using CPUs earlier than Intel E5-2600 v2 Series CPUs.

In this case, the server already has the software and firmware prerequisites. Use the following procedure to upgrade the CPUs:

Disassociate the server in Cisco UCS Manager.		
Power off the server.		
Replace the CPUs with the Intel E5-2600 v2 Series CPUs.		
Use th	ne procedures in the Blade Server Installation and Service Note for your server.	
Reinsert the server to the chassis.		
Wait f	for Cisco UCS Manager to automatically discover the server.	
Note	At this point, the Health LED of the server shows a critical fault and Cisco UCS Manager reports a generic error message: WILL_BOOT_FAULT: Sensor failure asserted . This is because a board controller activation is required, as described in the next step.	
	Disas: Power Repla Use th Reins Wait f	

Step 6 Perform a board controller activation by using the Cisco UCS Manager CLI interface. Use the following sequence of commands:

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Step 7 Do not continue with the next step until the board controller activation completes. Verify whether the activation is complete by using the **show version** command.

As shown in the example below, wait until the Activate-Status returns Ready. This process takes a few minutes before Activate-status is successfully completed and returns Ready.

```
# show version
BoardController:
    Running-Vers: 8.0
    Package-Vers:
    Activate-Status: Ready
```

- **Step 8** Clear the WILL_BOOT_FAULT by using the Cisco UCS Manager GUI to reset the server CIMC:
 - a. In the Navigation pane, click the Equipment tab.
 - **b.** On the **Equipment** tab, expand **Equipment > Chassis > Chassis number > Servers**, then choose your server.
 - c. In the Work pane, click the General tab.
 - d. In the Actions area, click Recover Server.
 - e. In the Recover Server dialog, click **Reset CIMC** (Server Controller), then click OK.

Wait for CIMC to reboot and for Cisco UCS Manager to do a shallow discovery of the server. This takes two to three minutes. At the end of this process the WILL_BOOT_FAULT is cleared.

Upgrade Scenario 3: UCSM at Version 2.1(3a) or Later, CPU is Intel E5-2600 v2, BIOS on Spare Earlier Than Version 2.1(3a)

This scenario is unique to a field-service situation in which a server that is already running Intel E5-2600 v2 Series CPUs must be replaced, but the only replacement server available is running a BIOS earlier than 2.1(3a).

This scenario assumes the following conditions:

- The Cisco UCS Manager software is at version 2.1(3a) or later.
- The replacement server is using Intel E5-2600 v2 Series CPUs (after the CPUs are transferred from the old server).
- The replacement server is using BIOS/CIMC version earlier than 2.1(3a).

Use the following procedure to upgrade the replacement server BIOS to the required version:

- **Step 1** Disassociate the server in Cisco UCS Manager.
- **Step 2** Power off the server.
- **Step 3** Transfer the CPUs from the old server to the new replacement server.

Use the procedures in the Blade Server Installation and Service Note for your server.

Step 4 Insert the server into the chassis that is running Cisco UCS Manager 2.1(3a) or later.



The server does not boot and discovery of the server hangs waiting for BIOS POST to complete because the BIOS is at an earlier version that does not support E5-2600 v2 Series CPUs.

Step 5 Use the Cisco UCS Manager CLI to upgrade the BIOS. Use the following sequence of commands:



e The show image command in the sequence below lists the firmware versions available for the server. Always activate the latest firmware image version when you use the update firmware command.

```
# scope server <chassis/blade>
chassis/server # scope bios
chassis/server/bios # show image
chassis/server/bios # update firmware <server_model>.<firmware version>
chassis/server/bios* # commit-buffer
```

Step 6 Wait for the update to complete. Check the status of the update and wait until the following command returns Status: Ready. It takes a few minutes for the Status to return Ready.

```
chassis/server/bios # show update status
Status: Ready
```

Step 7 Activate the new BIOS:

chassis/server/bios # activate firmware <server_model>.<firmware version>
Warning: When committed this command will reset the end-point
chassis/server/bios* # commit-buffer
chassis/server/bios # exit

Step 8 Power-cycle the server to get discovery out of the hang state:

```
chassis/server # cycle cycle-immediate
chassis/server* # commit-buffer
```

Cisco UCS Manager is now able to complete auto-discovery of the server.

- **Step 9** Use Cisco UCS Manager 2.1(3a) to upgrade and activate the server CIMC to version 2.1(3a) or later. Use the procedures in the GUI or CLI Firmware Management Guide, Release 2.1.
- **Step 10** Wait for the server to be discovered and by Cisco UCS Manager.
- **Step 11** Perform a board controller activation by using the Cisco UCS Manager CLI interface. Use the following sequence of commands:



The server automatically reboots after the **commit-buffer** command is executed.

```
<u>Note</u>
```

The **show image** command in the sequence below lists the board controller versions available for the server. Always activate the latest board controller image version when you use the **activate firmware** command.

```
# scope server <chassis/server>
# scope boardcontroller
# show image
# activate firmware <boardcontroller version>.0 force
# commit-buffer
```

See also Sample Board Controller Activation Command Sequence, page 15.

Step 12 Do not continue with the next step until the board controller activation completes. Verify whether the activation is complete by using the **show version** command.

As shown in the example below, wait until the Activate-Status returns Ready. This process takes a few minutes before Activate-status is successfully completed and returns Ready.

```
# show version
BoardController:
    Running-Vers: 8.0
    Package-Vers:
    Activate-Status: Ready
```

Step 13 Clear the WILL_BOOT_FAULT by using the Cisco UCS Manager GUI to reset the server CIMC:

- a. In the Navigation pane, click the Equipment tab.
- **b.** On the **Equipment** tab, expand **Equipment > Chassis > Chassis number > Servers**, then choose your server.
- c. In the Work pane, click the General tab.
- d. In the Actions area, click Recover Server.
- e. In the Recover Server dialog, click Reset CIMC (Server Controller), then click OK.

Wait for CIMC to reboot and for Cisco UCS Manager to do a shallow discovery of the server. This takes two to three minutes. At the end of this process the WILL_BOOT_FAULT is cleared.

Upgrading the B22 M3 Server to Intel E5-2400 v2 Series CPUs



These upgrade procedures require server downtime.

This section contains the following topics:

- Upgrade Scenario 1: UCSM and BIOS Earlier Than Version 2.2(2c), CPU Earlier Than Intel E5-2400 v2, page 10
- Upgrade Scenario 2: UCSM and BIOS at Version 2.2(2c) or Later, CPU Earlier Than Intel E5-2400 v2, page 11
- Upgrade Scenario 3: UCSM at Version 2.2(2c) or Later, CPU is Intel E5-2400 v2, BIOS on Spare Earlier Than Version 2.2(2c), page 12

Upgrade Scenario 1: UCSM and BIOS Earlier Than Version 2.2(2c), CPU Earlier Than Intel E5-2400 v2

This scenario assumes the following conditions:

- The Cisco UCS Manager software is at a version earlier than 2.2(2c).
- The server is at a BIOS/CIMC version earlier than 2.2(2c).
- The server is using CPUs earlier than Intel E5-2400 v2 Series.

In this case, use the following procedure to upgrade the server and CPUs.

Step 1 Upgrade the Cisco UCS Manager software to version 2.2(2c) or later. The required server CIMC and BIOS are also included with the 2.2(2c) download bundle.

Use the procedures in the appropriate upgrade guide for Release 2.1 in the UCS Manager Install and Upgrade Guides (depending on your current software version).

- **Step 2** Use Cisco UCS Manager 2.2(2c) to upgrade and activate the server CIMC to version 2.2(2c) or later. Use the GUI or CLI procedures in the UCS Manager Install and Upgrade Guides.
- Step 3 Use Cisco UCS Manager 2.2(2c) to upgrade and activate the server BIOS to version 2.2(2c) or later. Use the GUI or CLI procedures in the UCS Manager Install and Upgrade Guides.
- **Step 4** Disassociate the server in Cisco UCS Manager.
- **Step 5** Power off the server.
- **Step 6** Replace the CPUs with the Intel E5-2400 v2 Series CPUs.

Use the procedures in the Blade Server Installation and Service Note for your server.

- **Step 7** Reinsert the server to the chassis.
- **Step 8** Wait for Cisco UCS Manager to automatically discover the server.

Note

At this point, the Health LED of the server shows a critical fault and Cisco UCS Manager reports a generic error message: WILL_BOOT_FAULT: Sensor failure asserted. This is because a board controller activation is required, as described in the next step.

Step 9 Perform a board controller activation by using the Cisco UCS Manager CLI interface. Use the following sequence of commands:

<u>Note</u>

The **show image** command in the sequence below lists the board controller versions available for the server. Always activate the latest board controller image version when you use the **activate firmware** command.

Note The server automatically reboots after the **commit-buffer** command is executed.

scope server <chassis/server>
scope boardcontroller
show image
activate firmware <boardcontroller version>.0 force
commit-buffer

See also Sample Board Controller Activation Command Sequence, page 15.

Step 10 Do not continue with the next step until the board controller activation completes. Verify whether the activation is complete by using the **show version** command.

As shown in the example below, wait until the Activate-Status returns Ready. This process takes a few minutes before the Activate-status is successfully completed and returns Ready.

```
# show version
BoardController:
    Running-Vers: 8.0
    Package-Vers:
    Activate-Status: Ready
```

Step 11 Clear the WILL_BOOT_FAULT by using the Cisco UCS Manager GUI to reset the server CIMC:

- a. In the Navigation pane, click the Equipment tab.
- **b.** On the **Equipment** tab, expand **Equipment > Chassis > Chassis number > Servers**, then choose your server.
- c. In the Work pane, click the General tab.
- d. In the Actions area, click Recover Server.
- e. In the Recover Server dialog, click Reset CIMC (Server Controller), then click OK.

Wait for CIMC to reboot and for Cisco UCS Manager to do a shallow discovery of the server. This takes two to three minutes. At the end of this process the WILL_BOOT_FAULT is cleared.

Upgrade Scenario 2: UCSM and BIOS at Version 2.2(2c) or Later, CPU Earlier Than Intel E5-2400 v2

This scenario assumes the following conditions:

- The Cisco UCS Manager software is at version 2.2(2c) or later.
- The server is already using BIOS/CIMC version 2.2(2c) or later.
- The server is using CPUs earlier than Intel E5-2400 v2 Series CPUs.

In this case, the server already has the software and firmware prerequisites. Use the following procedure to upgrade the CPUs:

Step 1	Disassociate the server in Cisco UCS Manager.
Step 2	Power off the server.
Step 3	Replace the CPUs with the Intel E5-2400 v2 Series CPUs.
	Use the procedures in the Blade Server Installation and Service Note for your server.
Step 4	Reinsert the server to the chassis.
Step 5	Wait for Cisco UCS Manager to automatically discover the server.

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Upgrade Scenario 3: UCSM at Version 2.2(2c) or Later, CPU is Intel E5-2400 v2, BIOS on Spare Earlier Than Version 2.2(2c)

This scenario is unique to a field-service situation in which a server that is already running Intel E5-2400 v2 Series CPUs must be replaced, but the only replacement server available is running a BIOS earlier than 2.2(2c).

This scenario assumes the following conditions:

- The Cisco UCS Manager software is at version 2.2(2c) or later.
- The replacement server is using Intel E5-2400 v2 Series CPUs (after the CPUs are transferred from the old server).
- The replacement server is using BIOS/CIMC version earlier than 2.2(2c).

Use the following procedure to upgrade the replacement server BIOS to the required version:

- **Step 1** Disassociate the server in Cisco UCS Manager.2.2(2c)
- **Step 2** Power off the server.
- **Step 3** Transfer the CPUs from the old server to the new replacement server.

Use the procedures in the Blade Server Installation and Service Note for your server.

Step 4 Insert the server into the chassis that is running Cisco UCS Manager 2.2(2c) or later.

Note

The server does not boot and discovery of the server hangs waiting for BIOS POST to complete because the BIOS is at an earlier version that does not support E5-2400 v2 Series CPUs.

Step 5 Use the Cisco UCS Manager CLI to upgrade the BIOS. Use the following sequence of commands:



The **show image** command in the sequence below lists the firmware versions available for the server. Always activate the latest firmware image version when you use the **update firmware** command.

```
# scope server <chassis/blade>
chassis/server # scope bios
chassis/server/bios # show image
chassis/server/bios # update firmware <server_model>.<firmware version>
chassis/server/bios* # commit-buffer
```

Step 6 Wait for the update to complete. Check the status of the update and wait until the following command returns Status: Ready. It takes a few minutes for the Status to return Ready.

```
chassis/server/bios # show update status
Status: Ready
```

Step 7 Activate the new BIOS:

```
chassis/server/bios # activate firmware <server_model>.<firmware version>
Warning: When committed this command will reset the end-point
chassis/server/bios* # commit-buffer
chassis/server/bios # exit
```

Step 8 Power-cycle the server to get discovery out of the hang state:

```
chassis/server # cycle cycle-immediate
chassis/server* # commit-buffer
```

Cisco UCS Manager is now able to complete auto-discovery of the server.

- **Step 9** Use Cisco UCS Manager 2.2(2c) to upgrade and activate the server CIMC to version 2.2(2c) or later. Use the GUI or CLI procedures in the UCS Manager Install and Upgrade Guides.
- **Step 10** Wait for the server to be discovered and by Cisco UCS Manager.
- **Step 11** Perform a board controller activation by using the Cisco UCS Manager CLI interface. Use the following sequence of commands:

```
The server automatically reboots after the commit-buffer command is executed.
```

```
Note
```

Note

The **show image** command in the sequence below lists the board controller versions available for the server. Always activate the latest board controller image version when you use the **activate firmware** command.

```
# scope server <chassis/server>
# scope boardcontroller
# show image
# activate firmware <boardcontroller version>.0 force
# commit-buffer
```

See also Sample Board Controller Activation Command Sequence, page 18.

Step 12 Do not continue with the next step until the board controller activation completes. Verify whether the activation is complete by using the **show version** command.

As shown in the example below, wait until the Activate-Status returns Ready. This process takes a few minutes before Activate-status is successfully completed and returns Ready.

```
# show version
BoardController:
    Running-Vers: 8.0
    Package-Vers:
    Activate-Status: Ready
```

- **Step 13** Clear the WILL_BOOT_FAULT by using the Cisco UCS Manager GUI to reset the server CIMC:
 - a. In the Navigation pane, click the Equipment tab.
 - **b.** On the **Equipment** tab, expand **Equipment > Chassis > Chassis number > Servers**, then choose your server.
 - c. In the Work pane, click the General tab.
 - d. In the Actions area, click Recover Server.
 - e. In the Recover Server dialog, click Reset CIMC (Server Controller), then click OK.

Wait for CIMC to reboot and for Cisco UCS Manager to do a shallow discovery of the server. This takes two to three minutes. At the end of this process the WILL_BOOT_FAULT is cleared.

Downgrading the Cisco B200 M3 Server From Intel E5-2600 v2 Series CPUs

This	downgrade procedure requires server downtime.
This	scenario assumes the following conditions:
• 1	The Cisco UCS Manager software is at version 2.1(3a) or later.
• 1	The server is using BIOS/CIMC version 2.1(3a) or later.
• 1	he server is using the Intel E5-2600 v2 Series CPUs.
Use t	he following procedure to downgrade to earlier supported CPUs.
Disas	sociate the server in Cisco UCS Manager.
Powe	r off the server.
Repla	ce the Intel E5-2600 v2 Series CPUs with the earlier supported CPUs.
Use t	he procedures in the Blade Server Installation and Service Note for your server.
Reins	ert the server to the chassis.
Wait	for Cisco UCS Manager to automatically discover the server.
<u>Note</u>	At this point, the Health LED of the server shows a critical fault and Cisco UCS Manager report a generic error message: WILL_BOOT_FAULT: Sensor failure asserted . This is because a boar controller activation is required, as described in the next step.
Perfo seque	rm a board controller activation by using the Cisco UCS Manager CLI interface. Use the following once of commands:
<u>Note</u>	The server automatically reboots after the commit-buffer command is executed.
Note	The show image command in the sequence below lists the board controller versions available for the server. Always activate the latest board controller image version when you use the activate firmware command.
# scc # scc # shc # act # com	ppe server < <i>chassis/server</i> > ppe boardcontroller w image divate firmware < <i>boardcontroller version</i> >.0 force mit-buffer lso Sample Board Controller Activation Command Sequence, page 18
Do no activa	ot continue with the next step until the board controller activation completes. Verify whether the activation is complete by using the show version command.

show version
BoardController:

I

```
Running-Vers: 8.0
Package-Vers:
Activate-Status: Ready
```

- **Step 8** Clear the WILL_BOOT_FAULT by using the Cisco UCS Manager GUI to reset the server CIMC:
 - a. In the Navigation pane, click the Equipment tab.
 - **b.** On the **Equipment** tab, expand **Equipment > Chassis > Chassis number > Servers**, then choose your server.
 - c. In the Work pane, click the General tab.
 - d. In the Actions area, click Recover Server.
 - e. In the Recover Server dialog, click Reset CIMC (Server Controller), then click OK.

Wait for CIMC to reboot and for Cisco UCS Manager to do a shallow discovery of the server. This takes two to three minutes. At the end of this process the WILL_BOOT_FAULT is cleared.



Note The Cisco UCS Manager 2.1(3a) bundle, including the server CIMC and BIOS, is backward-compatible with earlier supported CPUs, so the following firmware downgrade steps are optional.

Step 9 Optional: Downgrade your server CIMC. Use the procedures in the GUI or CLI Firmware Management Guide, Release 2.1.
Step 10 Optional: Downgrade your server BIOS. Use the procedures in the GUI or CLI Firmware Management Guide, Release 2.1.

Sample Board Controller Activation Command Sequence

The following is an example of the commands with sample values.

Box-A# scope server 1/4 Box-A /chassis/server # scope boardcontroller Box-A /chassis/server/boardcontroller # show Name	r image Type	Version	
ucs-b200-m3-brdprog.3.0.gbin ucs-b200-m3-brdprog.8.0.gbin	Board Controller Board Controller 8.0	3.0	
Box-A /chassis/server/boardcontroller # activ Warning: When committed this command will res Box-A /chassis/server/boardcontroller* # comm	vate firmware 8.0 forc set the end-point nit-buffer	e	
The server automatically reboots after the commit-buffer command is executed.			
Box-A /chassis/server/boardcontroller # show	version		

```
BoardController:
Running-Vers: 8.0
Package-Vers:
Activate-Status: Activating
```

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Note

```
Box-A /chassis/server/boardcontroller # show version
BoardController:
    Running-Vers: 8.0
    Package-Vers:
    Activate-Status: Ready
```



When the **show version** command returns Activate-Status: Activating, the process is working, but incomplete. When the command returns Activate-Status: Ready, the process is complete. The process takes a few minutes.

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Downgrading the Cisco B22 M3 Server From Intel E5-2400 v2 Series CPUs

This c	lowngrade procedure requires server downtime.
This s	cenario assumes the following conditions:
• T	he Cisco UCS Manager software is at version 2.2(2c) or later.
• T	he server is using BIOS/CIMC version 2.2(2c) or later.
• T	he server is using the Intel E5-2400 v2 Series CPUs.
Use th	ne following procedure to downgrade to earlier supported CPUs.
Disas	sociate the server in Cisco UCS Manager.
Power	r off the server.
Repla	ce the Intel E5-2400 v2 Series CPUs with the earlier supported CPUs.
Use th	ne procedures in the Blade Server Installation and Service Note for your server.
Reins	ert the server to the chassis.
Wait f	For Cisco UCS Manager to automatically discover the server.
Note	At this point, the Health LED of the server shows a critical fault and Cisco UCS Manager report a generic error message: will_BOOT_FAULT: Sensor failure asserted. This is because a board controller activation is required, as described in the next step.
Perfor	rm a board controller activation by using the Cisco UCS Manager CLI interface. Use the following nce of commands:
Noto	The conversion strength reports often the second to be second is executed
NULE	
Note	The show image command in the sequence below lists the board controller versions available for the server. Always activate the latest board controller image version when you use the activate firmware command.
# sco # sco # sho # act # com	pe server <i><chassis server=""></chassis></i> pe boardcontroller w image ivate firmware <i><boardcontroller version=""></boardcontroller></i> .0 force mit-buffer
See al	so Sample Board Controller Activation Command Sequence, page 18.
Do no	ot continue with the next step until the board controller activation completes. Verify whether the tion is complete by using the show version command.
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As shown in the example below, wait until the Activate-Status returns Ready. This process takes a few minutes before Activate-status is successfully completed and returns Ready.

show version
BoardController:

```
Running-Vers: 8.0
Package-Vers:
Activate-Status: Ready
```

- **Step 8** Clear the WILL_BOOT_FAULT by using the Cisco UCS Manager GUI to reset the server CIMC:
 - a. In the Navigation pane, click the Equipment tab.
 - **b.** On the **Equipment** tab, expand **Equipment > Chassis >** *Chassis number* **> Servers**, then choose your server.
 - c. In the Work pane, click the General tab.
 - d. In the Actions area, click Recover Server.
 - e. In the Recover Server dialog, click Reset CIMC (Server Controller), then click OK.

Wait for CIMC to reboot and for Cisco UCS Manager to do a shallow discovery of the server. This takes two to three minutes. At the end of this process the WILL_BOOT_FAULT is cleared.



The Cisco UCS Manager 2.2(2c) bundle, including the server CIMC and BIOS, is backward-compatible with earlier supported CPUs, so the following firmware downgrade steps are optional.

Step 9 Optional: Downgrade your server CIMC.Use the GUI or CLI procedures in the UCS Manager Install and Upgrade Guides.

Step 10 Optional: Downgrade your server BIOS.Use the GUI or CLI procedures in the UCS Manager Install and Upgrade Guides.

Sample Board Controller Activation Command Sequence

The following is an example of the commands with sample values.

```
Box-A# scope server 1/4
Box-A /chassis/server # scope boardcontroller
Box-A /chassis/server/boardcontroller # show image
Name
                                                               Version
                                           Type
_____
                                         - -----
ucs-b22-m3-brdprog.3.0.gbin
                                          Board Controller
                                                            3.0
ucs-b22-m3-brdprog.8.0.gbin
                                          Board Controller 8.0
Box-A /chassis/server/boardcontroller # activate firmware 8.0 force
Warning: When committed this command will reset the end-point
Box-A /chassis/server/boardcontroller* # commit-buffer
The server automatically reboots after the commit-buffer command is executed.
Box-A /chassis/server/boardcontroller # show version
BoardController:
   Running-Vers: 8.0
```

```
Cisco UCS B-Series Servers Upgrade Guide for Intel E5-2600/E5 2400 v2 Series CPUs
```

Activate-Status: Activating

Package-Vers:

Note

```
Box-A /chassis/server/boardcontroller # show version
BoardController:
    Running-Vers: 8.0
    Package-Vers:
    Activate-Status: Ready
```



When the **show version** command returns Activate-Status: Activating, the process is working, but incomplete. When the command returns Activate-Status: Ready, the process is complete. The process takes a few minutes.

