

Dell™ PowerConnect™ 6224/6224F/6224P/6248/6248P

## PowerConnect

# 6224/6224F/6224P/6248/6248P from 2.x.x.x to 3.3.15.1 Firmware Upgrade Procedure



**Date: Aug 2016**

### Notes, Notices, and Cautions

A NOTE indicates important information that helps you make better use of your computer.

A NOTICE indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

A CAUTION indicates a potential for property damage, personal injury, or death.

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Table of Contents

Introduction ..... 4

Upgrade Preparation..... 4

Upgrade Operational Software ..... 5

Boot Code Upgrade from Boot Menu ..... 6

# Introduction

This document describes the procedure for upgrading the operational code from release 2.x.x.x to release 3.3.15.1 in Dell™ PowerConnect 6200 Series switches.

A Serial connection is required to the switch for the upgrade. In a stack configuration, a serial connection is required for all the switches in the stack.

A boot loader update is required for the upgrade. The boot loader update must be performed from the boot menu. For a stacking configuration, the upgrade must be performed for the management unit first, followed by member units in order of physical connection (closest to the manager first, then proceeding with the next unit away).

# Upgrade Preparation

The preparation steps for the upgrade are required to ensure the most secure method for updating the boot loader and operational software.

- 1. Reload the system. Wait until the console prompt (console>) returns. Only proceed to the next step when the Switch Status is OK for all switches.**

### Example:

```
console#show switch
```

Switch	Management Status	Preconfig Model ID	Plugged-in Model ID	Switch Status	Code Version
1	Mgmt Switch	PCT6248	PCT6248	OK	2.0.0.12

- 2. Save the start-up configuration and create a back-up copy.**

### Example:

```
console#copy running-config startup-config
```

```
This operation may take a few minutes.
Management interfaces will not be available during this time.
Are you sure you want to save? (y/n) y
Configuration Saved!
```

```
console#copy startup-config tftp://10.27.64.127/conf.cfg
```

```
Mode..... TFTP
Set TFTP Server IP..... 10.27.64.127
TFTP Path...../
TFTP Filename..... conf.cfg
Data Type..... Config Script
Source Filename.....
Management access will be blocked for the duration of the transfer
Are you sure you want to start? (y/n) y
```

```
250 bytes transferred
```

```
File transfer operation completed successfully.
```

## PowerConnect 6200 Series Firmware Upgrade Procedure

### 3. Ensure that persistent logging is disabled.

#### Example:

```
console#config
console(config)#no logging file
```

### 4. Shut down all ports on the switch except a port required to tftp 3.3.15.1 image.

#### Example:

```
console#config
console(config)#interface range ethernet all
console(config-if)#shutdown
console(config-if)#ex
console(config)#interface ethernet 1/g12
console(config-if)#no shutdown
```

## Upgrade Operational Software

The following steps must be followed to successfully upgrade the operational software. If a switch fails to update the software without error, STOP and contact Dell Customer Support.

### 1. Load the 3.3.15.1 software onto the system from the management switch.

#### Example:

```
console#copy tftp://10.27.64.127/PC6200v3.3.15.1.stk image
```

```
Mode..... TFTP
Set TFTP Server IP..... 10.27.64.127
TFTP Path..... /
TFTP Filename..... PC6200v3.3.15.1.stk
Data Type..... Code
Destination Filename..... image
```

```
Management access will be blocked for the duration of the transfer
Are you sure you want to start? (y/n) y
```

```
TFTP code transfer starting
9732180 bytes transferred
File reception complete
Verifying file...
```

```
File contents are valid.
Distributing the code to the members of the stack!
```

```
File transfer operation completed successfully.
```

### 2. Display the downloaded image version.

#### Example:

```
console#show version
Image Descriptions
image1 : First image
image2 :
```

```
Images currently available on Flash
```

unit	image1	image2	current-active	next-active
1	2.0.0.12	3.3.15.1	image1	image1

## PowerConnect 6200 Series Firmware Upgrade Procedure

### 3. Activate the image.

#### Example:

```
console#boot system image2
Activating image image2 ..
```

```
console#show version
```

```
Image Descriptions
```

```
image1 : First image
image2 :
```

```
Images currently available on Flash
```

unit	image1	image2	current-active	next-active
1	2.0.0.12	3.3.15.1	image1	image2

## Boot Code Upgrade from Boot Menu

The following steps must be followed to successfully upgrade the boot code from Boot menu. Upgrading boot code is only required if upgrading from 2.x to 3.x firmware version. If any switch fails updating the boot loader from the Boot Menu, STOP and please contact Dell Customer Support.

**NOTE:** Following the completion of the operational software upgrade, Do NOT execute the CLI command “update bootcode” to update the boot loader on the switch from the activated image if upgrading from 2.x to 3.x firmware version.

The boot code update MUST be performed from the boot menu. For a stacking configuration, the upgrade must be executed on the management unit first, followed by member units in order of physical connection (closest to the manager first, then proceeding out to the next unit).

1. **Power down the system. The stand-alone unit or the management unit and each member unit, if in a stacking configuration, must be powered down.**
2. **Power up the management unit, stopping at the Boot Menu.**

#### Example:

```
Boot Menu Jun 30 2009
Select an option. If no selection in 10 seconds then
operational code will start.
```

```
1 - Start operational code.
2 - Start Boot Menu.
Select (1, 2):2
```

### 3. Select option 7 of the Boot Menu to Update Boot Code.

**NOTE:** The Boot Menu options changed after Release 2.0. Option 6 is removed if upgrading from Release 2.2

## PowerConnect 6200 Series Firmware Upgrade Procedure

Boot Menu Version: 21 November 2008

Select an option. If no selection in 10 seconds then operational code will start.

1 - Start operational code.

2 - Start Boot Menu.

Select (1, 2):2

Boot Menu 21 November 2008

Options available

1 - Start operational code

2 - Change baud rate

3 - Retrieve event log using XMODEM

4 - Load new operational code using XMODEM

5 - Display operational code vital product data

6 - Run flash diagnostics

7 - Update boot code

8 - Delete backup image

9 - Reset the system

10 - Restore configuration to factory defaults (delete config files)

11 - Activate Backup Image

12 - Password Recovery Procedure

[Boot Menu] 7

Do you wish to update Boot Code and reset the switch? (y/n) y

^^^^

.....  
.....  
.....  
.....  
.....

4. The switch will automatically reboot after completing the boot code update. If a switch reboot does not occur, reboot to the operational code (Option 9).
5. Repeat steps 2 through 4 for the member units in the order of physical connection (if upgrading a stack).
6. Upgrade Procedure Completed.