

Release 3.x Upgrade Procedure

White Paper

DELL™ PowerConnect™ 6200 Series

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Upgrade Procedure

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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PC6200 Series

Rev. A01

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Introduction

This document describes the procedure for upgrading the operational code from release 2.X to release 3.x 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 bootloader update is required for the upgrade. The bootloader 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 bootloader and operational software.

1. Reload the system. Wait until the user prompt returns. Only proceed to the next step when the status is OK for all switches.

Example:

```
console#reload
```

```
console#
```

```
console#
```

```
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	Stack Member	PCT6248	PCT6248	OK	2.0.0.12

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

Example:

```
console#
```

```
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..... 10.27.7.127

Upgrade Procedure

```
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.

3. Ensure that persistent logging is disabled.

Example:

```
console#conf
no logging file
ex
```

4. Shut down all ports on the switch except a port required to tftp 3.x image.

Example:

```
console#conf
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
ex
ex
```

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.x software onto the system from the management switch.

Example:

```
console#copy tftp://10.27.64.127/PC6200v3.2.1.13.stk image
```

```
Mode..... TFTP
Set TFTP Server IP..... 10.27.64.127
TFTP Path..... /
TFTP Filename..... PC6200v3.2.1.13.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

9010916 bytes transferred

Upgrade Procedure

Verifying CRC of file in Flash File System

File transfer operation completed successfully.

2. Display the downloaded 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	3.2.1.13	image1	image1

3. Activate the image.

Example:

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

Boot Code Upgrade

The following steps must be followed to successfully upgrade the bootloader. [Upgrading boot code is only required if upgrading from 2.x to 3.x](#). If any switch fails updating the bootloader from the Boot Menu, STOP and contact Dell Customer Support.

NOTE: Following the completion of the [operational](#) software upgrade, do **NOT** execute the `update bootcode` CLI command to update the bootloader on the switch from the activated image.

The bootloader 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.

Upgrade Procedure

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.

```
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.