Upgrading Dell Networking X1008, X1008P, X1018, X1018P, X1026, X1026P, X1052, X1052P & X4012 Switches

Dell™ Networking X1008, X1008P, X1018, X1018P, X1026, X1026P, X1052, X1052P & X4012

Upgrade Procedure of Dell™ Networking X10xx and X4012 Switches

Using Command Line Interface

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NOTE: This release contains the following firmware image files:

File Name	Description
X10xx-3011.ros	System firmware image for X1008/P, X1018/P, X1026/P, X1052/P switches
X10xx_boot-10025.rfb	Boot code for X1000 Series switches
x4012-3011.ros	System firmware image for X4012 switches
x4012_boot-10010.rfb	Boot code for X4012 switches

WARNING:

Failure to follow the procedures in this document may cause a switch to become inoperable! This procedure updates the firmware image and boot code on the switch. On switch reload at the end of this procedure, the switch will automatically update CPLD to the latest version (X1018/P: Rev07/2.07, X1026/P: Rev08/2.08, X1052/P HW Version 00.00.04 and later: Rev0B/2.13) on boot up if switches are running with old CPLD version. CPLD update will take at least 10 to 15 minutes to complete. Power cycling the switch during the CPLD update is likely to cause the switch to become inoperable and require the switches to be RMA'ed for factory re-installation of the firmware.

CPLD Auto-update on switch boot-up is applicable only for X1052/P HW Version 00.00.04 and other X10xx switches. CPLD code will not be updated automatically for X1052/P HW Version 00.00.03 and older switches. After upgrading X1052/P HW Version 00.00.03 and older switches to firmware version to 3.0.0.95 and boot-code version to 1.0.0.25, the CPLD can be updated manually from boot-menu by pressing "Esc" button on switch boot-up (and selecting the option "[3]-CPLD Upgrade Force"). Please contact our technical support for more details and guidance.

WARNING:

Power cycling the switch during this procedure is likely to cause the switch to become inoperable and require factory re-installation of the firmware. Do NOT manually power cycle the switch during this procedure unless specifically directed to do so in the instructions!

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Using TFTP and the CLI to download software and boot code

NOTE: A TFTP server must be on the network and the switch software must be accessible by the TFTP server before attempting to download the switch software by TFTP.

1. Change the switch mode (X1008/P, X1018/P and X1026/P) from factory-default "Unmanaged" to "Managed" mode by pressing the "MODE" button for more than 7 seconds. X1052/P and X4012 switches are in "Managed" mode by default. Connect to the serial port (default setting 9600 baud, 8 data bits, no start bits, and 1 stop bits) and enter the CLI mode.

The following prompt is displayed on the console:

User Name:

2. Ensure that an IP address is assigned to at least one port on the switch. Use default login as "admin" and password as "admin" and assign an IP address to VLAN-1 (this example uses IP address 10.10.10.101) in case if no DHCP Server is available to assign IP address to VLAN-1 interface. Make sure TFTP server is reachable from the switch.

```
User Name:admin
Password:****

console#config
console(config)#interface vlan 1
console(config-if)#ip address 10.10.10.101/24
console(config-if)#exit
```

3. Enter the "copy tftp://{tftp address}/{file name} image" command to copy the system firmware (embedded software) into the switch. The (successfully) transferred system firmware image does not become active until after the switch is soft rebooted or power cycled. The following is an example of how the command gets entered and what is displayed during/after the command is executed:

4. Enter the "copy tftp://{tftp address}/{file name} boot" command to copy the boot software to the switch. The boot software is copied but does not become active until the switch is reset. The following is an example of how the command gets entered and what is displayed during/after the command is executed:

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5. Enter the "show bootvar" command to verify which image is active. The following is an example of how the command gets entered and what is displayed during/after the command is executed:

console# show bootvar

Image Status	Filename	Version	Date
1 2	image-1 image-2	25-Feb-2015 15-Nov-2018	 Active Not Active*

[&]quot;*" designates that the image was selected for the next boot

6. Enter the "reload" command. The following message is displayed:

console# reload

WARNING:

The relevant X-Series switches will automatically update CPLD to the latest version (X1018/P: Rev07/2.07, X1026/P: Rev08/2.08, X1052/P HW Version 00.00.04 and later: Rev0B/2.13) on boot up if switches are running with older CPLD version. CPLD update will take at least 10 to 15 minutes to complete. Power cycling the switch during the CPLD update is likely to cause the switch to become inoperable and require the switches to be RMA'ed for factory re-installation of the firmware.

- 7. After switch-reload, confirm the new software and boot-code by entering "show version" command.
- 8. Enter the "**show version**" command to verify updated boot-code version. The following is an example of the information which is displayed:

9. Change the switch mode back to "Unmanaged" by pressing the "MODE" button for more than 7 seconds on X1008/P, X1018/P and X1026/P switches.