# Dell EMC Networking S3100 Series Release Notes, OS Version 9.14(1.10)

This document contains information about open and resolved issues, and operational information specific to the Dell EMC Networking operating software (OS) and the S3100 Series platform. **Current Release Version:** 9.14(1.10)

**Release Date:** 2021-09-30

Previous Release Version: 9.14(1.9P4)

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For more information on hardware and software features, commands, and capabilities, refer to the Dell EMC Networking support website at: https://www.dell.com/support

# **Document Revision History**

#### Table 1. Revision History

Date	Description
2021–09	Initial release.

## Requirements

The following requirements apply to the S3100 Series.

### Hardware Requirements

The following table lists the Dell EMC S3100 Series hardware requirements:

#### **Table 2. System Hardware Requirements**

Platforms	Hardware Requirements		
S3124 chassis	<ul> <li>Twenty-four Gigabit Ethernet 10/100/1000BASE-T RJ-45 ports that support auto-negotiation for speed, flow control, and duplex.</li> <li>Two SFP 1G combo ports.</li> <li>Two SFP+ 10G ports.</li> </ul>		

#### Table 2. System Hardware Requirements (continued)

Platforms	Hardware Requirements		
	<ul> <li>20G expansion slot that supports an optional small form-factor pluggable plus (SFP+) or 10GBase-T module.</li> <li>Two fixed mini Serial Attached SCSI (mini-SAS) stacking ports HG[21] to connect up to twelve S3100 series switches.</li> </ul>		
S3124F chassis	<ul> <li>Twenty-four Gigabit Ethernet 100BASEFX/1000BASE-X SFP ports.</li> <li>Two 1G copper combo ports.</li> <li>Two SFP+ 10G ports.</li> <li>20G expansion slot that supports an optional small form-factor pluggable plus (SFP+) or 10GBase-T module.</li> <li>Two fixed mini Serial Attached SCSI (mini-SAS) stacking ports HG[21] to connect up to twelve S3100 series switches.</li> </ul>		
S3124P chassis	<ul> <li>Twenty-four Gigabit Ethernet 10/100/1000BASE-T RJ-45 ports for copper that support auto-negotiation for speed, flow control, and duplex.</li> <li>Two SFP 1G combo ports.</li> <li>Two SFP+ 10G ports.</li> <li>Supports PoE+.</li> <li>20G expansion slot that supports an optional small form-factor pluggable plus (SFP+) or 10GBase-T module.</li> <li>Two fixed mini Serial Attached SCSI (mini-SAS) stacking ports HG[21] to connect up to twelve S3100 series switches.</li> </ul>		
S3148P chassis	<ul> <li>Forty-eight Gigabit Ethernet 10BASE-T, 100BASE-TX, 1000BASE-T RJ-45 ports that support auto-negotiation for speed, flow control, and duplex.</li> <li>Two SFP 1G combo ports.</li> <li>Two SFP+ 10G ports.</li> <li>Supports PoE+.</li> <li>20G expansion slot that supports an optional small form-factor pluggable plus (SFP+) or 10GBase-T module.</li> <li>Two fixed mini Serial Attached SCSI (mini-SAS) stacking ports HG[21] to connect up to twelve S3100 series switches.</li> </ul>		
S3148 chassis	<ul> <li>Forty-eight Gigabit Ethernet 10BASE-T, 100BASE-TX, 1000BASE-T RJ-45 ports that support auto-negotiation for speed, flow control, and duplex.</li> <li>Two SFP 1G combo ports.</li> <li>Two SFP+ 10G ports.</li> <li>20G expansion slot that supports an optional small form-factor pluggable plus (SFP+) or 10GBase-T module.</li> <li>Two fixed mini Serial Attached SCSI (mini-SAS) stacking ports HG[21] to connect up to twelve S3100 series switches.</li> </ul>		

## Software Requirements

The following table lists the Dell EMC S3100 Series software requirements:

#### Table 3. System Software Requirements

Software	Minimum Release Requirement
Dell EMC Networking OS	9.14(1.10)

# New Dell EMC Networking OS Version 9.14(1.10) Features

The following features have been added to the S3100-ON with Dell EMC Networking OS version 9.14(1.10): None.

# Restrictions

- While deploying the system in the normal-reload mode in BMP configuration, use the ip ssh server enable command at the beginning of the startup configuration if the write memory command is used at the end of the configuration.
- The following features are not available from Dell EMC Networking OS version 9.10(0.0):
  - PIM ECMP
  - Static IGMP join (ip igmp static-group)
  - IGMP querier timeout configuration (ip igmp querier-timeout)
  - IGMP group join limit (ip igmp group join-limit)
- In the S3100 series, the negotiation auto and the speed commands are not available on the combo ports in the hybrid mode. You need to provision the combo port as copper or fiber medium using the combo-port-type command.
- Half-Duplex mode is not supported.
- If you use the interface range command to select multiple interfaces that are added to the management VRF, the ipv6 address command does not display the autoconfig option. You can configure the autoconfig command on individual interfaces.
- If you use the interface range command to select multiple interfaces that are added to the management VRF, the ipv6 nd command displays the following options but they do not take effect if you use them:
  - o dns-server
  - hop-limit
  - managed-config-flag
  - o max-ra-interval
  - o mtu
  - o other-config-flag
  - prefix
  - ra-guard
  - o ra-lifetime
  - reachable-time
  - o retrans-timer
  - o suppress-ra
- When FRRP is enabled in a VLT domain, no flavor of Spanning tree should concurrently be enabled on the nodes of that specific VLT domain. In essence FRRP and xSTP should not co-exist in a VLT environment.

## **Changes to Default Behavior and CLI Syntax**

Following default behavior and CLI syntax changes occurred during the Dell EMC Networking OS release:

- To enhance security, the default RSA key size has been changed to 2048 bits from 1024 bits from 9.14.1.10 onwards.
- If you configure an NTP server using a DNS hostname, the switch tries to resolve the name to an IP address instead
  of the hostname. If it succeeds, the system saves the command using the IP address instead of the hostname, to the
  running-config. If it fails, you see the following error message:

```
Error: Destination name lookup failed for host
<DNS hostname>
```

# **Documentation Corrections**

Dell EMC Networking OS Configuration guide mentions that the maximum number of source sessions supported on a switch is 4. The guide will be updated later with the following information:

When you configure remote port mirroring, you can create a maximum of 3 source RSPAN sessions with port mirroring direction as either RX or TX. If you want to configure port mirroring for both directions (TX and RX), you can configure a maximum of 2 RSPAN sessions with one monitor session for both directions and the other session with only one direction.

# **Deferred Issues**

Issues that appear in this section were reported in a previous version of Dell Networking OS version as open, but have since been deferred. Deferred issues are the issues that are found to be invalid, not reproducible, or not scheduled for resolution.

Deferred issues are reported using the following definitions.

Category	Description		
PR#	Problem Report number that identifies the issue.		
Severity	<b>S1</b> — Crash: A software crash occurs in the kernel or a running process that requires a restart of AFM, the router, switch, or process.		
	<b>S2</b> — Critical: An issue that renders the system or a major feature unusable, which can have a pervasive impact on the system or network, and for which there is no work-around acceptable to the customer.		
	<b>S3</b> — Major: An issue that affects the functionality of a major feature or negatively effects the network for which there exists a work-around that is acceptable to the customer.		
	<b>S4</b> — Minor: A cosmetic issue or an issue in a minor feature with little or no network impact for which there might be a work-around.		
Synopsis	Synopsis is the title or short description of the issue.		
Release Notes	Release Notes description contains more detailed information about the issue.		
Work around	Work around describes a mechanism for circumventing, avoiding, or recovering from the issue. It might not be a permanent solution.		
	lssues listed in the "Fixed Issues" section should not be present, and the work-around is unnecessary, as the version of code for which this release note is documented has resolved the issue.		

### Deferred S3100 series 9.14(1.0) Software Issues

Issues that appear in this section were reported in Dell EMC Networking OS version 9.14(1.0) as open, but have since been deferred. Deferred issues are those that are found to be invalid, not reproducible, or not scheduled for resolution. None.

# **Fixed Issues**

Fixed issues are reported using the following definitions.

Category	Description
PR#	Problem Report number that identifies the issue.
Severity	<b>S1</b> — Crash: A software crash occurs in the kernel or a running process that requires a restart of AFM, the router, switch, or process.
	<b>S2</b> — Critical: An issue that renders the system or a major feature unusable, which can have a pervasive impact on the system or network, and for which there is no work-around acceptable to the customer.

Category	Description				
	<b>S3</b> — Major: An issue that affects the functionality of a major feature or negatively effects the network for which there exists a work-around that is acceptable to the customer.				
	<b>S4</b> — Minor: A cosmetic issue or an issue in a minor feature with little or no network impact for which there might be a work-around.				
Synopsis	Synopsis is the title or short description of the issue.				
Release Notes	Release Notes description contains more detailed information about the issue.				
Work around	Work around describes a mechanism for circumventing, avoiding, or recovering from the issue. It might not be a permanent solution.				
	Issues listed in the "Fixed Issues" section should not be present, and the work-around is unnecessary, as the version of code for which this release note is documented has resolved the issue.				

## Fixed S3100 Series 9.14(1.10) Software Issues

(i) NOTE: Dell EMC Networking OS 9.14(1.10) includes fixes for issues addressed in previous 9.14 releases. Refer to the respective release notes documentation for the list of issues fixed in earlier 9.14 releases.

The following issues are fixed in Dell EMC Networking OS version 9.14(1.10):

#### PR#170115

Severity:	Sev 3		
Synopsis:	The switch may encounter an exception when an incorrect length field is specified in a TACACS packet.		
Release Notes:	The switch may encounter an exception when an incorrect length field is specified in a TACACS packet.		
Workaround:	None		
PR#170126			
Severity:	Sev 2		
Synopsis:	In certain scenarios, the NAND flash reports a bad block and causes the switch to become unresponsive.		
Release Notes:	In certain scenarios, the NAND flash reports a bad block and causes the switch to become unresponsive.		
Workaround:	None		
PR#170159			
Severity:	Sev 3		
Synopsis:	SSH connections with Cipher Block Chaining (CBC) ciphers are vulnerable.		
Release Notes:	SSH connections with Cipher Block Chaining (CBC) ciphers are vulnerable.		
Workaround:	Configure a stronger Cipher/MAC/KEX setting using the <code>ip ssh</code> server command.		
PR#170161			

Severity:	Sev 2		
Synopsis:	SSH connections may be vulnerable with switches running on a 1024 bit RSA key.		
Release Notes:	SSH connections may be vulnerable with switches running on a 1024 bit RSA key.		
Workaround:	Create a new 2048 bit RSA key using the crypto key generate rsa command.		
PR#170206			
Severity:	Sev 2		
Synopsis:	Addressed OpenSSL CVE's: CVE-2021-3711 and CVE-2021-3712.		
Release Notes:	The following CVEs have been addressed:		
	<ul><li>CVE-2021-3711</li><li>CVE-2021-3712</li></ul>		
	The CVE database can be accessed here: <a href="https://cve.mitre.org/cve/search_cve_list.html">https://cve.mitre.org/cve/search_cve_list.html</a> .		
Workaround:	None		
PR#170211			
Severity:	Sev 2		
Synopsis:	When a switch with scaled VLANs is reloaded, traffic drop may occur due to a delay in VLAN programming.		
Release Notes:	When a switch with scaled VLANs is reloaded, traffic drop may occur due to a delay in VLAN programming.		
Workaround:	None		

# **Known Issues**

Known issues are reported using the following definitions.

Category	Description
PR#	Problem Report number that identifies the issue.
Severity	<b>S1</b> — Crash: A software crash occurs in the kernel or a running process that requires a restart of AFM, the router, switch, or process.
	<b>S2</b> — Critical: An issue that renders the system or a major feature unusable, which can have a pervasive impact on the system or network, and for which there is no work-around acceptable to the customer.
	<b>S3</b> — Major: An issue that affects the functionality of a major feature or negatively effects the network for which there exists a work-around that is acceptable to the customer.
	<b>S4</b> — Minor: A cosmetic issue or an issue in a minor feature with little or no network impact for which there might be a work-around.
Synopsis	Synopsis is the title or short description of the issue.
Release Notes	Release Notes description contains more detailed information about the issue.
Work around	Work around describes a mechanism for circumventing, avoiding, or recovering from the issue. It might not be a permanent solution.

#### Category Description

Issues listed in the "Fixed Issues" section should not be present, and the work-around is unnecessary, as the version of code for which this release note is documented has resolved the issue.

## Known S3100 Series 9.14(1.10) Software Issues

The following issues are open in Dell EMC Networking OS version 9.14(1.10):

PR#169841	
Severity:	Sev 2
Synopsis:	In certain scenarios, an MSDP learnt PIM TIB entry stays in registering state indefinitely.
Release Notes:	In certain scenarios, an MSDP learnt PIM TIB entry stays in registering state indefinitely.
Workaround:	Set the affected node as a non-designated router in the RPF neighbor interface.

# **Upgrade Instructions**

The following upgrades are available for the Dell EMC Networking operating system (OS) on S3100 series switches:

- 1. Upgrade the Dell EMC Networking OS image on S3100 series switches.
- **2.** Upgrade the UBoot from Dell EMC Networking OS.
- **3.** Upgrade the CPLD image.
- 4. Upgrade the PoE controller.

### Upgrading the Operating Software Image

Upgrade the OS image on S3100 series switches by following the procedure in this section.

(i) NOTE: The configurations shown here are examples only and are not intended to duplicate any real system or network.

() NOTE: If you installed the Open Automation (OA) package on the S3100 series switch, Dell EMC Networking strongly recommends uninstalling the OA package before you upgrade the Dell EMC Networking OS image. Then reinstall a compatible OA package. In this way, the system installs enhancements and uninstalls incompatible OA packages after the Dell EMC Networking OS upgrade.

() NOTE: Dell EMC Networking strongly recommends using the Management Interface to upgrade the new image in both BMP mode and the Upgrade System CLI. Using front-end ports takes more time (approximately 25 minutes) to download and install new image due to the large file size.

**NOTE:** If you are using bare metal provisioning (BMP), see the *Bare Metal Provisioning* chapter in the *Open Automation* Guide.

1. Save the running configuration on the switch.

EXEC Privilege mode

write memory

 Back up your startup configuration to a secure location (for example, an FTP server as shown here). EXEC Privilege mode copy startup-config destination

```
DellEMC# copy running-config ftp:
Address or name of remote host []: 10.10.10.10
Destination file name [startup-config]: startup-config
User name to login remote host: host
Password to login remote host: xxxx
!
5179 bytes successfully copied
DellEMC#
```

3. Upgrade the Dell EMC Networking OS on a S3100 series switch.

EXEC Privilege mode

```
upgrade system {flash: | ftp: | nfsmount: | scp: | stack-unit: | tftp:| usbflash:} file-
url [A: | B:]
```

Where {flash: | ftp: | scp: | tftp: | usbflash:} *file-url* specifies the file transfer method and location of the software image file used to upgrade the S3100 series, and is in one of the following formats:

- flash://directory-path/filename Copy from flash file system.
- ftp://user-id:password@host-ip/file-path Copy from remote (IPv4 or IPv6) file system.
- nfsmount://mount-point/filepath Copy from NFS mount file system.
- scp://user-id:password@host-ip/file-path Copy from remote (IPv4 or IPv6) file system.
- stack-unit: Synchronize image to the specified stack unit.
- tftp://host-ip/file-path Copy from remote (IPv4 or IPv6) file system.
- usbflash://directory-path/filename Copy from USB flash file system.

**NOTE:** Dell EMC Networking recommends using FTP to copy the new image with the upgrade system command due to the large file size.

4. In case of a stack setup, upgrade the Dell EMC Networking OS for the stacked units.

upgrade system stack-unit [1-12 | all] [A: | B:]

EXEC Privilege

If A: is specified in the command, the Dell EMC Networking OS version present in Management unit's A: partition will be pushed to the stack units. If B: is specified in the command, the Management unit's B: will be pushed to the stack units. Upgrade of stack units can be done on individual units by specifying the unit id [1–12] or on all units by using all in the command.

5. Verify the Dell EMC Networking OS has been upgraded correctly in the upgraded flash partition

```
show boot system stack-unit [1-12 | all]
EXEC PRIVILEGE
```

The Dell EMC Networking OS versions present in A: and B: can be viewed for individual units by specifying the stack unit id [1–12] in the command or for all the stack units by specifying all in the command.

```
DellEMC#show boot system stack-unit all
Current system image information in the system:
                                         _____
                      _____
 _____
Туре
               Boot Type
                                      А
                                                              В
_____
stack-unit 1FLASH BOOT9.14(1.10)9.14(1.9P4) [boot]stack-unit 2FLASH BOOT9.14(1.10)9.14(1.9P4) [boot]stack-unit 3FLASH BOOT9.14(1.10)9.14(1.9P4) [boot]
stack-unit 4 is not present.
stack-unit 5 is not present.
stack-unit 6 is not present.
stack-unit 7 is not present.
stack-unit 8 is not present.
stack-unit 9 is not present.
stack-unit 10 is not present.
stack-unit 11 is not present.
stack-unit 12 is not present.
DellEMC#
```

6. Change the primary boot parameter to the upgraded partition (A: or B:).

```
Configuration mode
```

```
boot system stack-unit {1-12 | all} {default | primary | secondary} {flash://file-name |
ftp://file-url | system: {A: | B:} | tftp://file-url }
```

```
DellEMC(conf)#boot system stack-unit all primary system: a:
DellEMC(conf)#
```

7. Save the upgrade configuration so that it is retained after a reload.

EXEC Privilege mode

```
write memory
```

- DellEMC#
- 8. Reload the system so that the Dell EMC Networking OS image is retrieved from flash.

EXEC Privilege mode

```
reload
```

DellEMC#reload

Proceed with reload [confirm yes/no]: yes...

9. Verify that the system is upgraded to the latest Dell EMC Networking OS version.

EXEC Privilege mode

show version

```
DellEMC#show version
Dell EMC Real Time Operating System Software
Dell EMC Operating System Version: 2.0
Dell EMC Application Software Version: 9.14(1.10)
Copyright (c) 1999-2021 by Dell Inc. All Rights Reserved.
Build Time: Fri Sep 24 11:34:10 2021
Build Path: /build/build01/SW/SRC
Dell EMC Networking OS uptime is 1 hour(s), 31 minute(s)
```

System image file is "system://A"
System Type: S3124P
Control Processor: Broadcom 56340 (ver A0) with 2 Gbytes (2147483648 bytes) of
memory, core(s) 1.
IG bytes of boot flash memory.
 1 52-port GE/TE (S3100)
 1 28-port GE/TE (S3100)
 1 28-port GE/TE (S3100)
 96 GigabitEthernet/IEEE 802.3 interface(s)
 8 Ten GigabitEthernet/IEEE 802.3 interface(s)
DellEMC#

10. Check if all the stack units are online after reload.

EXEC Privilege mode

show system brief

DellEMC#show system brief				
Stack MAC: 00:11:33:44:77:86Reload-Type: normal-reload [Next boot : normal-reload]				
Stack Info Unit UnitType Status	ReqTyp	CurTyp	Version	Ports
1Memberonline2Managementonline3Standbyonline	S3148 S3124P S3124F	S3148 S3124P S3124F	9.14(1.10) 9.14(1.10) 9.14(1.10)	54 30 30

### Upgrade the UBoot from Dell EMC Networking OS

To upgrade the UBoot from Dell EMC Networking OS, perform the following steps:

1. Upgrade the S3100 Series Boot Flash (UBoot) image.

EXEC Privilege

```
upgrade boot bootflash-image stack-unit [<id> | all] [booted | flash: | ftp: | scp: |
tftp: | usbflash:]
```

Dell EMC Networking OS version 9.14(1.10) requires S3100 Series Boot Flash (UBoot) image version 5.2.1.8. The booted option is used to upgrade the Boot Flash (UBoot) image to the image version packed with the loaded Dell EMC Networking OS image. The Boot Flash (UBoot) image version packed with the loaded Dell EMC Networking OS can be found using the show os-version command in EXEC Privilege mode.

To upgrade the Boot Flash image of all stack-units, the option all can be used.

DellEMC#upgrade boot bootflash-image stack-unit all booted Current Boot information in the system: BootFlash Current Version New Version Card ------ 
 Boot Flash
 5.2.1.6
 5.2.1.8

 Boot Flash
 5.2.1.6
 5.2.1.8

 Boot Flash
 5.2.1.6
 5.2.1.8
 Unit1 Unit2 Unit.3 Boot Flash 5.2.1.6 5.2.1.8 \* Warning - Upgrading boot flash is inherently risky and should only \* \* be attempted when necessary. A failure at this upgrade may cause a board RMA. Proceed with caution ! \*\*\*\*\* Proceed Boot Flash image for all units [yes/no]: yes !!!!!.!.!!! Bootflash image upgrade for all completed successfully. DellEMC#

2. Reload the unit

EXEC Privilege

reload

3. Verify the UBoot image

EXEC Privilege

show system stack-unit <id>

DellEMC#show system stack-unit 1 -- Unit 1 --Unit Type : Management Unit : online Status Next Boot : online Required Type : S3124F - 28-port GE/TE (S3100) : S3124F - 28-port GE/TE (S3100) Current Type Master priority : 0 Hardware Rev : 5.0 : 30 Num Ports Up Time : 4 min, 27 sec Dell EMC Networking OS Version : 9.14(1.10) Jumbo Capable : yes : no : disabled POE Capable FIPS Mode Boot Flash : 5.2.1.8 Boot Selector Memory Size Temperature : Present : 2147483648 bytes : 38C Voltage : ok Serial Number : Part Number : Rev Vendor Id : Date Code : Country Code : Piece Part ID : N/A PPID Revision : N/A : N/A : N/A Service Tag : N/A : disabled : f8:10:16:17:18:17 : 3 Expr Svc Code Auto Reboot Burned In MAC No Of MACs -- Module 1 --Status : not present -- Power Supplies --Unit Bay Status Type FanStatus FanSpeed(rpm) -----11upACup12absentabsent 0 0 -- Fan Status --Unit Bay TrayStatus Fan1 Speed Fan2 Speed ----- and a state of the state \_\_\_\_\_ up 1 1 6956 up 7058 up Speed in RPM DellEMC#

## Upgrading the CPLD

The S3100 series with the Dell EMC Networking OS Version 9.14(1.10) requires System CPLD revision 24.

**NOTE:** If your CPLD revisions are higher than the ones shown here, DO NOT make any changes. If you have questions regarding the CPLD revision, contact technical support:

### Verify that a CPLD upgrade is required

Use the following command to identify the CPLD version:

```
DellEMC#show revision
-- Stack unit 1 --
S3124F SYSTEM CPLD : 24
DellEMC#
```

Use the following command to view CPLD version that is associated with the Dell EMC Networking OS image:

```
DellEMC#show os-version
RELEASE IMAGE INFORMATION :
       _____

        Platform
        Version
        Size
        ReleaseTime

        S-Series:S3100
        9.14(1.10)
        50155103
        Sep 24 2021 12:52:25

TARGET IMAGE INFORMATION :
Type Version Target checksum
runtime 9.14(1.10) Control Processor passed
BOOT IMAGE INFORMATION :
_____
  TypeVersionTargetchecksumboot flash5.2.1.6Control Processorpassed
FPGA IMAGE INFORMATION :
                    _____
                                   _____
     Card FPGA Name Version
-unit 1 S3148 SYSTEM CPLD 24
stack-unit 1
POE-CONTROLLER IMAGE INFORMATION
                             _____
_____
Type Version
PoE Controller 2.65
DellEMC#
```

#### Upgrading the CPLD Image

- **NOTE:** The upgrade fpga-image stack-unit 1 booted command is hidden when using the FPGA Upgrade feature in the CLI. However, it is a supported command and is accepted when entered as documented.
- **NOTE:** Ensure that the uBoot version is 5.2.1.8 or above. You can verify this version using show system stack-unit 1 command.

To upgrade the CPLD image on S3100 Series, follow these steps.

**1.** Upgrade the CPLD image.

```
EXEC Privilege
upgrade fpga-image stack-unit <id> booted
```

DellEMC#upgrade fpga-image stack-unit 1 booted

Current information for the system:

Card	I	Device Name	Current Ve:	rsion	New Ver	sion
Unit1	S3124F SY	YSTEM CPLD		23		24
* * * * * * * * * * * * * * * * * * * *						
*	Warning - Upgrading	FPGA is inhere	ently risky	and shoul	d	*
	only be attempted wh					may *
*	cause a board RMA.	Proceed with c	aution !			*
* * * * * * * * * * * * * * * * * * * *						

2. The system reboots automatically and waits for the DellEMC prompt. The CPLD version can be verified using show revision command output.

EXEC PRIVILEGE

show revision

```
DellEMC#show revision
-- Stack unit 1 --
S3124F SYSTEM CPLD : 24
DellEMC#
```

(i) NOTE: Do not power off the system while FPGA upgrade is in progress. For any queries, contact technical support

**NOTE:** When you upgrade the standby and member units of CPLD, the following message displays in the management unit. The unit automatically reboots once the upgrade is complete and joins the stack with the upgraded CPLD.

```
DellEMC#upgrade fpga-image stack-unit 3 booted
Current information for the system:
                        Device Name Current Version New Version
Card
                   -----
Unit3
            S3124F SYSTEM CPLD
                                    23
                                               24
  * Warning - Upgrading FPGA is inherently risky and should
  * only be attempted when necessary. A failure at this upgrade may
  * cause a board RMA. Proceed with caution !
  * When the upgrade has successfully completed, the system will *
  * be automatically rebooted to reload the upgraded components.
  Upgrade image for stack-unit 3 [yes/no]: yes
System fpga upgrade in progress !!! Please do NOT power off the unit !!!
Upgrade result :
_____
Unit 3 System fpga upgrade in progress.
It will take a few minutes for the upgrade to complete.
Unit 3 will auto reboot once the the upgrade is complete.
Please do NOT power off or reload the unit!!!
```

### Upgrading the PoE Controller

Upgrade the PoE controller image on a stack unit of the S3100 series switch.

• Upgrade the PoE controller image on a specified stack unit. EXEC Privilege mode

upgrade poe-controller stack-unit unit-number

```
DellEMC#upgrade poe-controller stack-unit 1
Current PoE-Controller information in the system:
______
Stack Unit
                Current Version New Version
 _____
 1
                    2.65
                                   2.65
   * Warning - Upgrading PoE Controller should only be attempted
   * when necessary. Stack-unit will be reset automatically after
   * upgrade. PoE to all ports of the unit would be suspended until
   * upgrade completes and unit gets reloaded successfully. Please do not*
   * Reset/Powercyle or Reload. Proceed with caution !
                                           Upgrade PoE Controller Firmware for stack-unit 1 ? [yes/no]: yes
PoE Controller upgrade in progress. Please do NOT POWER-OFF the card.
Upgrade result :
_____
Slot 1 PoE Controller FirmWare upgrade successful. Resetting the stack-unit.
DellEMC#
```

## **Support Resources**

The following support resources are available for the S3100 Series.

### **Documentation Resources**

For information about using the S3100 Series, see the following documents at http://www.dell.com/support:

- Dell EMC Networking S3100 Series Installation Guide
- Quick Start Guide
- Dell EMC Command Line Reference Guide for the S3100 Series
- Dell EMC Configuration Guide for the S3100 Series

For more information about hardware features and capabilities, see the Dell EMC Networking website at https://www.dellemc.com/networking.

#### Issues

Issues are unexpected or incorrect behavior and are listed in order of Problem Report (PR) number within the appropriate sections.

## **Finding Documentation**

This document contains operational information specific to the S3100 Series.

- For information about using the S3100 Series, see the documents at http://www.dell.com/support.
- For more information about hardware features and capabilities, see the Dell EMC Networking website at https://www.dellemc.com/networking.

## **Contacting Dell EMC**

() NOTE: If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell EMC product catalog.

Dell EMC provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell EMC for sales, technical support, or customer service issues:

Go to www.dell.com/support.

#### Notes, cautions, and warnings

(i) NOTE: A NOTE indicates important information that helps you make better use of your product.

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

MARNING: A WARNING indicates a potential for property damage, personal injury, or death.