Dell EMC S3048-ON and S4048-ON Troubleshooting Guide

March 2019



Notes, cautions, and warnings

- () 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.

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About this guide

This guide provides site preparation recommendations, step-by-step procedures for rack mounting and desk mounting your switch, inserting modules, and connecting to a power source.

- CAUTION: To avoid electrostatic discharge (ESD) damage, wear grounding wrist straps when handling this equipment.
- WARNING: Only trained and qualified personnel can install this equipment. Read this guide before you install and power up this equipment. This equipment contains two power cords. Disconnect both power cords before servicing.
- MARNING: This equipment contains optical transceivers, which comply with the limits of Class 1 laser radiation.



Figure 1. Class 1 laser product tag

- MARNING: When no cable is connected, visible and invisible laser radiation may emit from the aperture of the optical transceiver ports. Avoid exposure to laser radiation. Do not stare into open apertures.
- (i) NOTE: Read this guide before unpacking the Dell EMC Virtual Edge Platform (VEP) 4600.

Topics:

- Information symbols
- Related documents

Information symbols

This book uses the following information symbols:

- (i) NOTE: The Note icon signals important operational information.
- CAUTION: The Caution icon signals information about situations that could result in equipment damage or loss of data.
- MARNING: The Warning icon signals information about hardware handling that could result in injury.
- MARNING: The ESD Warning icon requires that you take electrostatic precautions when handling the device.

Related documents

For more information about the Open Networking (-ON) platforms, see the following documents:

- OS10 User Guide
- Dell EMC OS9 Command Line Reference Guide
- Dell EMC OS9 Configuration Guide

- · Dell EMC Getting Started Guide
- Dell EMC Installation Guide
- · Dell EMC Release Notes
- OS10 Release Notes

() NOTE: For the most recent documentation, see Dell EMC support: https://www.dell.com/support.

ONIE diagnostics

This chapter describes system diagnostics and troubleshooting. After running the diagnostic tools, your system displays pass or fail test results. If all tests pass, the diagnostic tools exit normally. If a test fails, each diagnostic tool offers a different result.

- NOTE: The troubleshooting package includes a README file that lists the tools version and the overall troubleshooting package (i) version. For more information, see this README file.
- (i) NOTE: To download the Release Notes, go to https://www.dell.com/support.

This system uses the following troubleshooting tools:

- Power-On Self Test (POST) diagnostic Automatically runs during the system startup at the BIOS or U-boot level. This tool tests for catastrophic hardware failures that prevent booting the system. The error code is saved in CMOS for the next boot. There is no physical alarm indication.
- Extended diagnostic application (EDA) Tests the hardware for system failures. This diagnostic tool is on-demand. EDA verifies platform-specific hardware. There are options to perform diagnostics from a Quick Test to a thorough Intrusive test. If a test fails, you can stop or continue boot-up. If you select the halt-on failure option, EDA testing does not continue. If you do not select the halt-on failure option, EDA testing continues. Test results are saved in a user-defined storage area. There is no physical alarm indication.
- (i) NOTE: To test your hardware, Dell EMC strongly recommends using the EDA tool.
- () NOTE: EDA runs in the ONIE environment, not in the networking operating system. You must be at the ONIE prompt to run EDA.

ONIE expansion

To view all the ONIE commands available, from the ONIE prompt, enter onie- and click <tab> twice.

ONIE:/ # onie- <TAB><TAB>

onie-boot-mode onie-console onie-discovery-start onie-self-update onie-discovery-stop onie-support

onie-fwpkg onie-nos-install

onie-syseeprom onie-sysinfo onie-uninstaller

Command-line interface options

Each diagnostic tool has the following options:

Command	Description
---------	-------------

Help topics. Use help to find software-specific tools. -h

test Tests against the preconfigured test file.

Topics:

- Boot processes
- POST
- EDA, Quick Test Mode
- Capturing Support Data from ONIE
- Changing the Default Grub Boot Entry

Boot processes

After the BIOS or U-Boot hardware verifications, POST tests run to verify the CPU and memory prior to booting the system software.

After POST testing, there are three additional types of diagnostic tools you can use for testing your system.

- Manual diagnostic boot process To run additional testing, manually download and run the EDA tool. The EDA tool reports and logs pass/fail results.
- ONIE with EDA EDA is installed; you do not have to manually download the tool. Select the diagnostic option at boot-up. You can run this tool without a management interface.
- Autorun EDA EDA is installed; you do not have to manually download the tool. Select the diagnostic option at boot-up. You can run
 this tool without a management interface. The system always launches EDA in Quick Test mode to verify the hardware components
 before loading the software. If there is a failure at boot-up, based on the EDA configuration, the software may or may not continue the
 boot process.

POST

POST diagnostics verifies system memory before the software loads. Test configuration parameters are saved in CMOS for the next bootup.

EDA, Quick Test Mode

Quick Test mode runs basic device access tests for the system hardware to verify that the device is active and responding.

In Quick Test mode, the EDA tool quickly tests if the hardware components are accessible. It confirms that the components respond to read access and in some cases, simple write access. Tests are read-only and non-destructive (except the memtool command, which does allow read/write operations).

Capturing Support Data from ONIE

To capture support data from ONIE, use the following commands.

1 Capture support data to the screen.

ONIE:/ # dmesg

2 Capture support data to the onie-support.tar.bz2 gzip file.

ONIE:/ # onie-support < output_directory>

The ONIE support file includes the following:

- kernel_cmdline
- runtime-export-env
- runtime-process
- runtime-set-env
- log/messages
- log/onie.log

Changing the Default Grub Boot Entry

To view or set the default Grub boot entry, use the following command. The onie-boot-mode command has two options -1 (the default) and -o. The Grub boot default is to show the current default entry.

View or set the default Grub boot entry. ONIE:/ # onie-boot-mode [-o <onie_mode>] The -o command options include:

- $\cdot \quad \text{install} \text{ONIE OS Installer mode}$
- · rescue ONIE Rescue mode
- uninstall ONIE OS Uninstall mode
- update ONIE Self Update mode
- \cdot embed ONIE Self Update mode and Embed ONIE
- \cdot diag ONIE Self Update mode and Embed ONIE
- none Uses System Default Boot mode. This mode uses the first ONIE boot menu entry.

The -1 command option is:

• Lists the current default entry. This is the default.

Dell EMC diagnostics

The following describes the Dell EMC diagnostics. These instructions apply to systems for which the ONIE diagnostics are not available.

ONIE expansion

To view all the ONIE commands available, from the ONIE prompt, enter onie- and click <tab> twice.

ONIE:/ # onie- <TAB><TAB>

```
onie-boot-modeonie-fwpkgonie-consoleonie-nos-installonie-discovery-startonie-self-updateonie-discovery-stoponie-support
```

onie-syseeprom onie-sysinfo onie-uninstaller

Topics:

- S4048–ON or S3048–ON diagnostic package
- · Dell EMC diagnostic test suite
- System information
- CPLD versions
- · Factory defaults restore

S4048–ON or S3048–ON diagnostic package

To install the S4048–ON or S3048–ON diagnostic package on your system, follow these steps.

- NOTE: Before you begin, go to http://www.dell.com/support and download the diagnostic package. You will need your Dell EMC support access account to download the package.
- 1 Boot your system to ONIE.
- 2 Enter the onie-discovery-stop command to stop the ONIE discovery mode (ONIE:/ # onie-discovery-stop).
- 3 Configure the management interface to download the image using ONIE:/ # ifconfig eth0 xx.xx.xx/xx up. Also ping the server/network IP address.

ONIE:/ # ifconfig eth0 xx.xx.xx.xx/xx up ONIE:/ # ping -c4 xx.xx.xx.xx

```
PING xx.xx.xx (xx.xx.xx): 56 data bytes
64 bytes from xx.xx.xx.xx: seq=0 ttl=64 time=0.446 ms
64 bytes from xx.xx.xx.xx: seq=1 ttl=64 time=0.198 ms
64 bytes from xx.xx.xx.xx: seq=2 ttl=64 time=0.183 ms
64 bytes from xx.xx.xx.xx: seq=3 ttl=64 time=0.163 ms
--- xx.xx.xx.xx ping statistics ---
4 packets transmitted, 4 packets received, 0% packet loss
round-trip min/avg/max = 0.163/0.247/0.446 ms
ONIE:/ #
Install the image using the onie-nos-install command.
ONIE:/ # onie-nos-install tftp://xx.xx.xx.lNSTALLER-DND-SK-x.x.xx.bin
Stopping: discover... done.
```

ONIE: Executing installer: ./INSTALLER-DND-SK-x.x.x.BIN ...

INSTALLER-DND-SK-1.0	3%	*	T	878k	0:00:29	ETA
INSTALLER-DND-SK-1.0	12%	* * *		3477k	0:00:13	ETA

```
| 6050k 0:00:10 ETA
INSTALLER-DND-SK-1.0 22% |*****
INSTALLER-DND-SK-1.0 31% |********
                                          8625k 0:00:08 ETA
                                        INSTALLER-DND-SK-1.0 40% |***********
                                        | 10986k 0:00:07 ETA
| 13062k 0:00:06 ETA
ONIE: Executing installer: tftp://xxx.xx.xx.x/INSTALLER-DND-SK-x.x.x.bin
Verifying image checksum ... OK.
Preparing image archive from /installer ... Done.
Mounting /dev/sda3...Done.
Copying Images ... Done.
Installing Menu Entry ...Done
All Done
ONIE:/ # umount: can't remount rootfs read-only
The system is going down NOW!
Sent SIGTERM to all processes
Sent SIGKILL tosd 4:0:0:0: [sda] Synchronizing SCSI cache
Restarting system.
machine restart
```

- 5 After installing the diagnostic image, a new entry (DELL EMC DIAG) is added to the ONIE boot menu.
- 6 Select the DELL EMC DIAG option to boot the Diagnostics image.

(1) NOTE: When you update ONIE, the DELL EMC DIAG option is removed. To recreate the DELL EMC DIAG option in the menu, you must install the Dell Diag Entry updater, as shown in the following example.

```
ONIE:/ #
ONIE:/ # onie-nos-install tftp://xx.xx.xx/DND-SK-DELL-DIAG-ENTRY-UPDATER
Stopping: discover... done.
Info: Fetching tftp://xx.xx.xx/DND-SK-DELL-DIAG-ENTRY-UPDATER ...
0:00:00 ETA
ONIE: Executing installer: tftp://xx.xx.xx/DND-SK-DELL-DIAG-ENTRY-UPDATER
Verifying image checksum ... OK.
Preparing image archive from /installer ... Done.
Installing Menu Entry ... Done.
ONIE: / # umount: can't remount rootfs read-only
The system is going down NOW!
Sent SIGTERM to all processes
Sent SIGKILL tosd 4:0:0:0: [sda] Synchronizing SCSI cache
Restarting system.
machine restart
```

Dell EMC diagnostic test suite

To run the Dell EMC diagnostic test suite, use the following command. Use the following step after the system boots up.

1 To run the Dell EMC diagnostic test suite, select the DELL EMC DIAG option.

(i) NOTE: Use the up and down arrow keys to select which entry is highlighted. Press Enter to select an operating software-selected OS or enter e to edit the commands before booting. Enter c for a command line. The highlighted entry (*) executes automatically in the operating system.

You will see a "Welcome to Grub" message at the beginning of the process and the DCLI-> prompt at the end of the process.

```
GNU GRUB version 2.02~beta2+e4a1fe391
```

```
+----+
|ONIE: Install OS
ONIE: Rescue
|ONIE: Uninstall OS
|ONIE: Update ONIE
ONIE: Embed ONIE
|*DELL EMC DIAG
```

0 NOTE: The following commands are available at the DCLI prompt.

At the DCLI> prompt, enter the testall command to run all the Dell EMC diagnostics. 2

You can enter any of the following commands to run a specific type of diagnostic. To run a specific test, use the testall testlevel=<n> command, where n = 0, 1, or 2. The testall command runs all the Level tests.

- testall Runs all levels of tests (LevelO, Level1, and Level2).
 - Level0 tests the presences of the devices.
 - Level1 tests the read/write access of the devices.
 - Level2 runs Loopback tests.

INOTE: For all the S4048–ON tests to be successful, you must connect the following to your system:

- USB-A device connected in the USB port. а
- Forty-eight 10 Gbps ports for small form-factor pluggable plus (SFP+) transceiver connections (back to back). For b example, PORT1->PORT2, PORT3->PORT4, ... PORT47->PORT48.
- Six 40 Gbps ports for quad small form-factor pluggable plus (QSFP+) transceiver connections (back to back). For С example, PORT49->PORT50, PORT51->PORT52, PORT53->PORT54.

For all the S3048–ON tests to be successful, you must connect the following to your system:

: x.x(x.xx)

- USB 2.0 device connected in the USB port. а
- b Forty-eight 10/100/1000Base-T RJ-45 ports. For example, PORT1->PORT2, PORT3->PORT4, ... PORT47->PORT48.
- Four 10 Gbps ports for small form-factor pluggable plus (SFP+) transceiver connections (back to back). For example, С PORT49->PORT50, PORT51->PORT52, PORT53->PORT54.

The following is an S4048-ON output example.

```
DCLI-> testall
           Dell EMC Networking OS S4048-ON BOARD DIAGNOSTIC [0]
                                    : CN08YWFG282983AQ0026
           PPId
           PPId Revision
                                     : A00
                                    : 64X8VS1
           Board Service Tag
           System Cpld Rev
Master Cpld Rev
Slave Cpld Rev
                                    : xx.x
                                    : XX
                                     : X
           Image Build Version
```

Available free memory: 1752698880 bytes

LEVEL 0 DIAGNOSTIC

Starting test: BIOSVersionTest

The Booted Bios Version : x.xx.x.x BIOSVersionTest PASS Starting test: BoardRevisionTest System CPLD: Board Stage: 0x2, Cpld Rev: 0x7 BoardRevisionTest PASS CpldAccessTest PASS CpuSdramPresenceTest PASS CpuTypeDetectTest PASS FanAirFlowTypeTest PASS FanStatusMonitorTest PASS FanTrayPresenceTest PASS Starting test: I2cAccessTest I2C Devices Scanned - 16 I2C Device PASS Count - 16 I2cAccessTest PASS MgmtPhyAccessTest PASS MgmtPhyPresenceTest PASS PowerRailStatusTest PASS PsuFanAirFlowTypeTest PASS Starting test: PsuFanSpeedMonitorTest PsuFanSpeedMonitorTest PASS PsuFanStatusMonitorTest PASS PsuPresenceTest PASS PsuSourceTypeTest PASS PsuStatusMonitorTest PASS QsfpPlusModulePresenceTest PASS QsfpPlusPhyAccessTest PASS RtcPresenceTest PASS sfpPlusModulePresenceTest PASS sfpPlusPhyAccessTest PASS Starting test: ShowTemperatureTesttemperature monitor 0: current= 51.4, peak= 53.1 temperature monitor 1: current= 54.1, peak= 55.2 temperature monitor 2: current= 54.1, peak= 55.2 temperature monitor 3: current= 50.3, peak= 52.0 temperature monitor 4: current= 50.9, peak= 52.0 temperature monitor 5: current= 52.0, peak= 53.1 temperature monitor 6: current= 51.4, peak= 52.5 temperature monitor 7: current= 52.0, peak= 53.6 temperature monitor 8: current= 50.9, peak= 52.0 average current temperature is 51.9 maximum peak temperature is 55.2 ShowTemperatureTest PASS SsdPresenceTest PASS UsbAAccessTest PASS UsbHostControllerAccessTest PASS LEVEL 1 DIAGNOSTIC Chambing tests DDD2Mammast

Starting test: DDRSMemiest	
DDR3MemTest	PASS
Starting test: dimmCacheMemoryTest	
dimmCacheMemoryTest	PASS
FanCntlrAccessTest	PASS
FanCntlrSpeedTest	PASS
FanTrayEepromAccessTest	PASS
HotSwapControllerAccessTest	PASS
I2cStressTest	PASS
MainBoardEepromAccessTest	PASS
PsuEepromAccessTest	PASS
QsfpPlusEepromAccessTest	PASS
QsfpPlusPhyExtLinkTest	PASS
QsfpPlusPhyLnkSpeedTest	PASS
RtcFunctionTest	PASS
RtcRolloverTest	PASS
sfpPlusPhyExtLinkTest	PASS

sfpPlusPhyLnkSpeedTest	PASS
SsdFileCopyTest	PASS
Trident2AccessTest	PASS
TSensorAccessTest	PASS
UsbFileCopyTest	PASS

LEVEL 2 DIAGNOSTIC	
CpuSnakeQsfpPlusExtLpbkTest	PASS
CpuSnakeQsfpPlusMacLpbkTest	PASS
CpuSnakeQsfpPlusPhyLpbkTest	PASS
CpuSnakeSfpPlusExtLpbkTest	PASS
CpuSnakeSfpPlusMacLpbkTest	PASS
CpuSnakeSfpPlusPhyLpbkTest	PASS
MgmtPortMacLoopbackTest	PASS
MgmtPortPhyLoopbackTest	PASS

(Group	Test	Statistics	
Total	:	55		
Passed	:	55		
Failed	:	0		
Not Appl	:	0		
Elapsed tim	me : (ООН:О	6M:41S	
Stop reason	n : a	after	completion	

The following is an S3048–ON output example.

DCLI-> testall

Dell EMC Networking OS S3048-ON BOARD DIAGNOSTIC [0] PPId : CN123456DELLI2158989 PPId Revision : A00 Board Service Tag : SERVTAG MMC Rev : XxX SMC Rev : XxX Image Build Version : x-x(x-x)

Available free memory: 1716424704 bytes

LEVEL 0 DIAGNOSTIC

B50282PhyAccessTest	PASS
Starting test: BiosVerGet	
The Booted Bios Version : x.xx.x.x-xx	
BiosVerGet	PASS
CpuSdramPresenceTest	PASS
CpuSdramSizeTest	PASS
CpuTypeDetectTest	PASS
FanAirFlowTypeTest	PASS
FanCntlrAccessTest	PASS
FanStatusMonitorTest	PASS
FanTrayPresenceTest	PASS
Helix4AccessTest	PASS
Starting test: I2cAccessTest	
I2C Devices Scanned - 10	
I2C Device PASS Count - 10	
I2cAccessTest	PASS
MgmtPhyAccessTest	PASS
MgmtPhyPresenceTest	PASS
MmcBoardRevisionTest	PASS
PsuFanAirFlowTypeTest	PASS
PsuFanSpeedMonitorTest	PASS

PsuFanStatusMonitorTest	PASS
PsuPresenceTest	PASS
PsuSourceTypeTest	PASS
PsuStatusMonitorTest	PASS
RtcPresenceTest	PASS
SfpPlusModulePresenceTest	PASS
ShowTemperatureTest	PASS
SmcBoardRevisionTest	PASS
SsdPresenceTest	PASS
UsbAAccessTest	PASS
UsbHostControllerAccessTest	PASS

LEVEL 1 DIAGNOSTIC

B50282PhyExternalLinkTest	PASS
B50282PhyLinkSpeedTest	PASS
DDR3MemTest	PASS
FanCntlrSpeedTest	PASS
FanTrayEepromAccessTest	PASS
I2cStressTest	PASS
MainBoardEepromAccessTest	PASS
PsuEepromAccessTest	PASS
RtcFunctionTest	PASS
RtcRolloverTest	PASS
SfpPlusEepromAccessTest	PASS
Starting test: SsdFileCopyTest	
ERROR:Dir /f10/slot0 already present on MS-DOS par	ctitior
SsdFileCopyTest	PASS
TSensorAccessTest	PASS
UsbFileCopyTest	PASS

LEVEL 2 DIAGNOSTIC

CpuSnake1gMacLpbkTest	PASS
CpuSnake1gPhyLpbkTest	PASS
CpuSnakeSfpPlusMacLpbkTest	PASS
CpuSnakeSfpPlusPhyLpbkTest	PASS
MgmtPortMacLoopbackTest	PASS
MgmtPortPhyLoopbackTest	PASS

```
----- Group Test Statistics -----

Total : 47

Passed : 47

Failed : 0

Not Appl : 0

Elapsed time : 00H:07M:27S

Stop reason : after completion
```

DCLI->

(i) NOTE: Entering the reload command at the DCLI prompt reloads the ONIE or OS installed on the system. It does not reload the Diagnostic tools.

System information

To view your S4048–ON or S3048–ON system information; for example, the model, part number, serial number, and service tag, follow these steps.

1 Boot into ONIE.

2 Enter the onie-syseeprom command.

ONIE:/ # onie-syseeprom

Example of the onie-syseeprom Command

TlvInfo Header: Id String: Version: Total Length:	TlvInfo 1 78		
TLV Name	Code	Len	Value
MAC Addresses	0x2A	2	129
Base MAC Address	0x24	6	00:05:33:6A:BF:4D
Vendor Name	0x2D	4	Dell
Product Name	0x21	8	<platform></platform>
Part Number	0x22	6	08YWFG
Serial Number	0x23	12	DLCN13980015
Label Revision	0x27	3	A00
Manufacturer	0x2B	1	1
Service Tag	0x2F	2	ABC1AB2
Loader Version	0x29	8	x.xx.x.x
CRC-32	0xFE	4	0xC1EB87D1
Checksum is valid	1.		

CPLD versions

To view CPLD data, including the fan status, PSU status, current programmed version, and image packed version, use the showSystemInfo command at the DCLI prompt.

• Enter the showSystemInfo command to view the CPLD information.

```
DCLI-> showSystemInfo
Software Info:
       SW Name: Dell Networking OSSW Version: x.x(x.xx)
Board Info:
      Board Revision : 0x2
       Board Service Tag : 66D7VS1
CPLD Info:
       System CPLD Version: xx.x
       Master CPLD Version: xx
       Slvae CPLD Version : x
Packed CPLD image Info:
       Packed System CPLD Version : xx.x
       Packed Master CPLD Version : xx
       Packed Slave CPLD Version : x
PPId Info:
                        : TW0J09D32829849Q0001
       PPId
       PPId Revision : X01
SysEeprom Info:
       Base MAC Address : 34:17:eb:f2:23:c4
       Country Code : TW
Part Number : 0J09D3
Manufacturer : 28298
       Manufacture Date : 10/02/2014 18:49:28
       Product Name : S40000N
Power Supply Info:
       Power Supply : 1
        AirFlow Direction : NORMAL
        Part Number : OT9FNW
```

Serial Nu	imber :	TW0T9FNW2829849Q0041
Sevice Ta	.g :	AEIOU##
Fantray Info:		
 FanTrav[1]		
AirFlow D	irection :	NORMAL
Part Numb	er ·	0MGDH8
Serial Nu	mber ·	TW0MGDH8282984900002
Sevice Ta		AETOII##
FanTray[2]	· 9 ·	
AirElow D	iroction .	NORMAT
Bart Numb	ar .	OMCDU9
Fait Nullip	mbon .	
Serial Nu.		1W0MGDH02029049Q0003
Sevice Ta	.g :	AE100##
Fanlray[3]		
AirFlow D	irection :	NORMAL
Part Numb	er :	0MGDH8
Serial Nu	umber :	TW0MGDH82829849Q0001
Sevice Ta	ig :	AEIOU##
* * * * * * * * * * * * * * * * * * *	******	* * * * * * * * * * * * * * * * * * * *

Factory defaults restore

If you need to restore the S4048–ON or S3048–ON factory defaults, reboot the system to ONIE Rescue mode. If it is not possible to do this with the operating system you installed, reboot the system and from Grub and select ONIE: Rescue.

△ CAUTION: Restoring factory defaults erases any installed operating system and requires a long time to erase storage.

ONIE Rescue bypasses the installed operating system and boots the system into ONIE until you reboot the system. After ONIE Rescue completes, the system resets and boots to the ONIE console.

1 Restore the S4048–ON or S3048–ON factory defaults from Grub using the ONIE: Rescue command.

Use the up and down arrow keys to select which entry is highlighted. Press Enter to select an operating software-selected OS or enter e to edit the commands before booting. Enter c for a command line. The highlighted entry (*) executes automatically in the operating system.

```
GNU GRUB version 2.02~beta2+e4a1fe391
```

	ONIE: Install OS	1
	*ONIE: Rescue	
	ONIE: Uninstall OS	1
	ONIE: Update ONIE	
	ONIE: Embed ONIE	1
	DELL EMC DIAG	1
		1
+ -		+

- 2 Press ENTER to activate the console.
- 3 You can also use the onie-uninstaller command to return to the default ONIE settings.

ONIE:/ # onie-uninstaller

Erasing unused NOR flash region Erasing 128 Kibyte @ 20000 - 100% complete. Erasing internal mass storage device: /dev/mmcblk0 (7832MB) Percent complete: 100%

Dell EMC support

4

The Dell EMC support site provides documents and tools to help you effectively use Dell EMC equipment and mitigate network outages. Through the support site you can obtain technical information, access software upgrades and patches, download available management software, and manage your open cases. The Dell EMC support site provides integrated, secure access to these services.

To access the Dell EMC support site, go to www.dell.com/support/. To display information in your language, scroll down to the bottom of the web page and select your country from the drop-down menu.

• To obtain product-specific information, enter the 7-character service tag, known as a luggage tag, or 11-digit express service code of your switch and click **Submit**.

To view the chassis service tag or express service code, pull out the tag or enter the show chassis command from the CLI.

• To receive more technical support, click Contact Us. On the Contact Information web page, click Technical Support.

To access switch documentation, go to www.dell.com/manuals/.

To search for drivers and downloads, go to www.dell.com/drivers/.

To participate in Dell EMC community blogs and forums, go to www.dell.com/community.