

Dell S3048-ON System Release Notes, OS Version 9.14(1.12)

This document contains information on open and resolved caveats, and operational information specific to the Dell Networking OS software and the S3048-ON platform.

Current Release Version: 9.14(1.12)

Release Date: 2022-05-20

Previous Release Version: 9.14(1.10)

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

Document Revision History

Table 1. Revision History

Date	Description
2022-05	Initial release.

Supported Hardware

The following hardware is supported with this platform:

Hardware	
S3048-ON chassis	



Hardware		
Forty-eight 10/100/1000Base-T RJ-45 Ports		
Four SFP+ optical ports (10 Gbps)		
Management Port		
USB 2.0 Port		
Serial Console Port		
Two AC PSUs		
Three fan subsytems		

(i) NOTE: If all the three fan trays are found to be empty or faulty, the system shuts down after one minute.

Supported Software

The following software is supported with this platform:

Software	Minimum Release Requirement	
Dell Networking OS	9.14(1.12)	
ONIE	3.24.1.0-4	

i) NOTE: For information on non-Dell OS versions, refer the Release Notes for the Hardware Platform S3048-ON.

New Dell Networking OS Version 9.14(1.12) Features

The following features have been added to the S3048-ON with Dell Networking OS version 9.14(1.12): None.

Restrictions

• If you downgrade the Dell Networking OS from 9.14(1.12) to 9.11(0.0) or any older version, the system displays the following error message even though there is no functional impact:

```
CDB boot error: C.cdb file format
```

Before downgrading, save the current configuration and then remove the CDB files ($confd_cdb.tar.gz.version$ and $confd_cdb.tar.gz$). To remove the files, use the following steps:

```
DellEMC#write memory
DellEMC#delete flash://confd_cdb.tar.gz.version
DellEMC#delete flash://confd_cdb.tar.gz
DellEMC#reload
```

- 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.
- REST API does not support AAA authentication.
- The following features are not available in the Dell Networking OS from version 9.7(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)
- Half-Duplex mode is not supported.
- 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 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.

Documentation Corrections

This section describes the errors identified in the current release of the Dell Networking OS.

None.

Deferred Issues

Issues that appear in this section were reported in Dell 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.

Deferred issues are reported using the following definitions.

Category	Description	
PR#	Problem Report number that identifies the issue.	
Severity	S1 — Crash: A software crash occurs in the kernel or a running process that requires a restart of AFM, the router, switch, or process.	
	S2 — 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.	
	S3 — 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.	
	S4 — 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.	

Deferred S3048-ON 9.14(1.0) Software Issues

Issues that appear in this section were reported in Dell Networking OS version 9.14(1.0) as open, but have since been deferred. Deferred caveats are those that are found to be invalid, not reproducible, or not scheduled for resolution.

The following issues have been deferred in the Dell Networking OS version 9.14(1.0):

None.

Fixed Issues

Fixed issues are reported using the following definitions.

Category	Description	
PR#	Problem Report number that identifies the issue.	
Severity	S1 — Crash: A software crash occurs in the kernel or a running process that requires a restart of AFM, the router, switch, or process.	
	S2 — 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.	
	S3 — 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.	
	S4 — 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.	
	The work-around is unnecessary, as the version of code for which this release note is documented has resolved the issue.	

Fixed S3048-ON 9.14(1.12) Software Issues

NOTE: Dell Networking OS 9.14(1.12) 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 Networking OS version 9.14(1.12):

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.
PR#170240	
Severity:	Sev 2
Synopsis:	AAA accounting request displays an incorrect calling station-id.
Release Notes:	AAA accounting request displays an incorrect calling station-id.
Workaround:	None
PR#170255	
Severity:	Sev 2

Synopsis: The switch encounters an exception when saving the configuration on

VLT pair switches simultaneously.

Release Notes:

The switch encounters an exception when saving the configuration on

VLT pair switches simultaneously.

Workaround: None

PR#170301

Severity: Sev 3

Synopsis: The BN mod sqrt() function, which computes a modular square

root, contains a bug that can cause it to loop forever for non-prime

moduli(CVE-2022-0778)

Release Notes: The BN mod sqrt() function, which computes a modular square

root, contains a bug that can cause it to loop forever for non-prime

moduli(CVE-2022-0778)

Workaround: None

Known Issues

Known issues are reported using the following definitions.

Category Description

PR# Problem Report number that identifies the issue.

Severity S1 — Crash: A software crash occurs in the kernel or a running process that requires a restart of AFM,

the router, switch, or process.

S2 — 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.

S3 — 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.

S4 — 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.

Known S3048-ON 9.14(1.12) Software Issues

The following caveats are open in Dell Networking OS version 9.14(1.12):

None

Upgrading ONIE on the S3048-ON

To upgrade the ONIE package you have installed, use one of the following two processes: zero touch (dynamic) update or manual update.

- 1. Zero touch (dynamic): Copy the update ONIE installer and the DIAG installer for your system to the TFTP/ HTTP server. Configure the DHCP options using the ONIE specifications shown at the following link: http://opencomputeproject.github.io/onie/docs/design-spec/updater.html
 - S3048-ON image>>>> onie-updater-x86_64-s3000_c2338-r0
- 2. Manual: Copy the image onto the TFTP/HTTP servers and boot ONIE. Update the ONIE using the onie-self-update command, then download and run an ONIE updater image. The supported URL types are: HTTP, FTP, TFTP, and FILE. \$3048-ON image>>>> onie-updater-x86 64-s3000 c2338-r0
- 3. UPGRADING ONIE ON AN EXISTING S3048-ON SYSTEM.

The following example uses HTTP to upgrade ONIE.

```
ONIE:/ # onie-self-update tftp://10.16.127.35/onie-updater-x86 64-s3000 c23
38-r0
Stopping: discover... done.
Info: Fetching tftp://10.16.127.35/onie-updater-x86 64-s3000 c2338-r0
onie-updater-x86_64- 100% |****************** 9021k 0:00:00 ETA
ONIE: Executing installer: tftp://10.16.127.35/onie-updater-x86 64-s3000 c2338-r0
Verifying image checksum ... OK.
Preparing image archive ... OK.
ONIE: Version : 3.24.1.0-4
ONIE: Architecture : x86_64
ONIE: Machine : s3000_c2338
ONIE: Machine Rev : 0
ONIE: Config Version: 1
Installing ONIE on: /dev/sda
Rebooting...
ONIE: / # umount: can't remount rootfs read-only
The system is going down NOW!
Sent SIGTERM to all processes
Sent SIGKILL tosd 0:0:0:0: [sda] Synchronizing SCSI cache
Restarting system.
machine restart
```

4. Upgrade the DIAG installer package.

```
ONIE: / # onie-nos-install tftp://10.16.127.35/INSTALLER-DND-SG-2.0.0.4.bin
Stopping: discover... done.
Info: Fetching tftp://10.16.127.35/INSTALLER-DND-SG-2.0.0.4.bin
                                     **************************** 27956k 0:00:00 ETA
INSTALLER-DND-SG-2.0 100% | *****
ONIE: Executing installer: tftp://10.16.127.35/INSTALLER-DND-SG-2.0.0.4.bin
Verifying image checksum ... OK.
Preparing image archive from /installer ... Done.
Mounting /dev/sda3...Done.
Copying Images ... 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 0:0:0:0: [sda] Synchronizing SCSI cache
Restarting system.
machine restart
```

5. Upgrade the BIOS image using the BIOS image and Flashrom utility included with the diagnostic package.

```
Sent SIGKILL tosd 0:0:0:0: [sda] Synchronizing SCSI cache
Restarting system.
machine restart

BIOS (Dell EMC Inc) Boot Selector
$3000 3.24.0.0-11
(48-port 1G/4-port SFP+ 10G)

CPLD JTAG to normal mode... done.
Resetting...
```

Installing Dell Networking OS on the S3048-ON using ONIE

NOTE: The Dell Networking OS installer package, ONIE-FTOS-SG-ON-9.14.1.12.bin, is required for installing Dell Networking OS on S3048-ON that has only ONIE.

To install the Dell Networking OS version 9.14(1.12) on to the new S3048-ON device, perform the following steps:

- Boot the system to the ONIE prompt. The following ONIE prompt appears: ONIE: / #
- 2. Stop the ONIE discovery process using the following command:

```
ONIE:/ # onie-discovery-stop
```

The following message appears:

```
Stopping: discover... done. ONIE:/ #
```

3. Configure an interface and assign an IP address to that interface using the following command:

```
ONIE:/ # ifconfig eth0 ip-address/prefix up
```

4. Enter the following command to begin the installation process:

```
ONIE:/ # onie-nos-install tftp://10.16.127.35/ONIE-FTOS-SG-ON-9.14.1.12.bin
```

(i) NOTE: After the Dell Networking OS installation is complete, the system automatically reboots.

Following is the installation and boot log of Dell Networking OS:

```
ONIE:/ # onie-nos-install tftp://10.16.127.35/ONIE-FTOS-SG-9.14.1.12.bin
Stopping: discover... done.
Info: Fetching tftp://10.16.127.35/ONIE-FTOS-SG-9.14.1.12.bin ..
ONIE-FTOS-SG-9.14.1.12 100% | *****
                                   ************************* 95426k 0:00:00 ETA
ONIE: Executing installer: tftp://10.16.127.35/ONIE-FTOS-SG-9.14.1.12.bin
Verifying image checksum ... OK.
Preparing image archive from /installer ... Done.
Verifying Product Platform...
                      : ONIE-FTOS-SG-9.14.1.12.bin
Image File
                      : S3048-ON
Product Name
Platform Verified
                      : OK
Deleting Extra partitions... Done.
Creating New partitions... Done.
Creating Hybrid MBR... Done.
Mouting /dev/sda4,/dev/sda5 and /dev/sda6... Done.
Installing GRUB on /dev/sda4...Done.
Copying Images... Done.
ONIE: / # umount: can't remount rootfs read-only
The system is going down NOW!
Sent SIGTERM to all processes
Sent SIGKILL tosd 0:0:0:0: [sda] Synchronizing SCSI cache
Restarting system.
```

```
machine restart
BIOS (Dell EMC) Boot Selector
S3000 3.24.0.0-11
 (48-port 1G/4-port SFP+ 10G)
CPLD JTAG to normal mode... done.
Resetting...
POST Configuration
  CPU Signature 406D8
  CPU FamilyID=6, Model=4D, SteppingId=8, Processor=0
  Microcode Revision 125
  Platform ID: 0x1004183D
  PMG_CST_CFG_CTL: 0x40006
  BBL_CR_CTL3: 0x7E2801FF
  Misc EN: 0x4000840081
  Gen PM Con1: 0x1008
  Therm Status: 0x88490000
  POST Control=0xEA010303, Status=0xE6009601
BIOS initializations...
CPLD JTAG to normal mode... done.
BIOS initializations...
CPGC Memtest for Channel 0 ..... PASS
ECC enabled: channel 0 DECCCTRL DUNIT REG=0x000200F3
  RTC Battery OK at last cold boot
  RTC date Thursday 03/24/2022 22:35:26
POST SPD test ..... PASS
POST Lower DRAM Memory test
  Short memory cell test
  Perf cnt (curr, fixed): 0x21157AA35, 0x31A008980
POST Lower DRAM Memory test ..... PASS
POST Lower DRAM ECC check ..... PASS
Dell DxE configurations...
Broadcom Preemphasis...
 Gen1=0x4, Gen2=0x43
  done.
NFO CDR... done.
SM Bus1 PHY...done
DxE POST
POST PCI test ..... PASS
POST NVRAM check ..... PASS
POST overall test results ...... PASS
Version 2.16.1242. Copyright (C) 2020 American Megatrends, Inc.
BIOS Date: 03/24/2022 15:25:58 Ver: 0ACBZ018
Press DEL or F2 to enter setup.
Grub 1.99~rc1 (Dell EMC)
Built by root at ubuntu on Thu Mar 24 08:53:42 UTC 2022 S30000N Boot Flash Label 3.24.2.9 NetBoot Label 3.24.2.9
Press Esc to stop autoboot ... 0
```

```
Secondary Boot not Configured

Booting DEFAULT configuration...

boot device : flash file : systema (Dell EMC Networking OS system://A Partition)

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Dell EMC Networking OS Release 9.14(1.12)

NetBSD 5.1_STABLE (S3000) #0: Thu Mar 24 03:39:56 PDT 2022
```

5. After the installation completes, the system displays the following prompt: DellEMC>

Upgrading the S3048-ON Dell Networking OS Image using the Dell Networking OS CLI

Bare Metal Provisioning

NOTE: If you are using Bare Metal Provisioning (BMP), see the Bare Metal Provisioning topic in the Dell Networking OS Configuration Guide or the Open Automation Guide.

Manual Upgrade Procedure

Follow these steps carefully to upgrade your S3048-ON systems:

- 1. Dell Technologies recommends that you back up your startup configuration and any important files and directories to an external media prior to upgrading the system.
 - NOTE: If you are upgrading from Dell Networking OS version 9.10.0.1P5 or earlier, you cannot directly upgrade to version 9.14(1.12). Upgrade to version 9.10(0.1P8) first and then upgrade to the required version.
- 2. Upgrade the Dell Networking OS in flash partition A: or B:

```
upgrade system [flash: | ftp: stack-unit <1-6> | tftp: | scp: | usbflash:] [A: | B:] EXEC Privilege
```

```
DellEMC#upgrade system tftp: a:
Address or name of remote host []: 10.16.127.35
Source file name []: FTOS-SG-9.14.1.12.bin
3d17h59m : Discarded 1 pkts. Expected block num : 62. Received block num: 61
3d17h59m : Discarded 1 pkts. Expected block num : 65. Received block num: 64
62620397 bytes successfully copied
System image upgrade completed successfully.
DellEMC#Mar 24 11:56:43: %STKUNIT1-M:CP %DOWNLOAD-6-UPGRADE: Upgrade completed
successfully
DellEMC#
DellEMC#upgrade system tftp: b:
Address or name of remote host []: 10.16.127.35
Source file name []: FTOS-SG-9.14.1.12.bin
3d18h2m : Discarded 1 pkts. Expected block num : 51. Received block num: 50
3d18h2m : Discarded 1 pkts. Expected block num : 65. Received block num: 64
62620397 bytes successfully copied
System image upgrade completed successfully.
```

```
DellEMC#Mar 24 12:00:33: %STKUNIT1-M:CP %DOWNLOAD-6-UPGRADE: Upgrade completed successfully DellEMC#
```

3. Verify that the Dell Networking OS has been upgraded correctly in the upgraded flash partition

show boot system stack-unit [1-6] | all]

EXEC Privilege

4. Change the Primary Boot Parameter of the S3048-ON to the upgraded partition A: or B:

```
boot system stack-unit 1 primary system: [A: | B: | tftp: | ftp:]
```

CONFIGURATION

5. Save the configuration so that the configuration will be retained after a reload using write memory command.

```
write [memory]
```

EXEC PRIVILEGE

```
DellEMC#write memory !
Mar 24 18:58:59: %STKUNIT1-M:CP %FILEMGR-5-FILESAVED: Copied running-config to startup-config in flash by default
DellEMC#
```

6. Reload the unit

reload

EXEC PRIVILEGE

```
Command : reload
Mode : EXEC PRIVILEGE
DellEMC#reload
Proceed with reload [confirm yes/no]: y
```

7. Verify the S3048 ON has been upgraded to the Dell Networking OS version 9.14(1.12)

show version

EXEC PRIVILEGE

```
DellEMC#show version
Dell EMC Real Time Operating System Software
Dell EMC Operating System Version: 2.0
Dell EMC Application Software Version: 9.14(1.12)
Copyright (c) 1999-2021 by Dell Inc. All Rights Reserved.
Build Time: Thu Mar 24 10:20:04 2022
Build Path: /build/build01/SW/SRC
Dell EMC Networking OS uptime is 3 day(s), 21 hour(s), 3 minute(s)

System image file is "system://A"

System Type: S3048-ON
Control Processor: Intel Rangeley with 2 Gbytes (2127654912 bytes) of memory, core(s)
2.
```

```
8G bytes of boot flash memory.

1 52-port GE/TE (SG-ON)

48 GigabitEthernet/IEEE 802.3 interface(s)

4 Ten GigabitEthernet/IEEE 802.3 interface(s)

DellEMC#
```

Upgrading the CPLD

The S3048-ON system with Dell Networking OS Version 9.14(1.12) requires System CPLD revision 9 and Module CPLD revision 7.

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 -- S3048-ON SYSTEM CPLD : 9

S3048-ON MODULE CPLD : 7

DellEMC#
```

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

```
DellEMC#show os-version
RELEASE IMAGE INFORMATION :
Platform Version Size ReleaseTime S-Series:SG-ON 9.14(1.12) 65838348 Mar 24 2022 08:37:00
TARGET IMAGE INFURENCE

Version
TARGET IMAGE INFORMATION :
      Type Version runtime 9.14(1.12)
                                    Target checksum
Control Processor passed
BOOT IMAGE INFORMATION :
         Type Version 3.24.2.9
                         Version
                                         Target checksum
Control Processor passed
    boot flash
BOOTSEL IMAGE INFORMATION :
Type Version boot selector 3.24.0.0-11
                                                      Target checksum
       Control Processor passed
FPGA IMAGE INFORMATION :
Card FPGA Name Version stack-unit 1 S3048-ON SYSTEM CPLD 9 stack-unit 1 S3048-ON MODULE CPLD 7
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 will be accepted when entered as documented.
- i) NOTE: Ensure that the BIOS version is 3.24.0.0-11. You can verify this version using **show system stack-unit 1** command.

To upgrade the CPLD image on S3048-ON, follow these steps.

 Upgrade the CPLD image. upgrade fpga-image stack-unit <id> booted EXEC Privilege

```
DellEMC#upgrade fpga-image stack-unit 1 booted
Current information for the system:
Card
                  Device Name Current Version New Version
   -----
     S3048-ON SYSTEM CPLD
                                        8
Unit1
            S3048-ON MODULE CPLD
Unit1
                                        6
   ******************
   * 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 !
Upgrade image for stack-unit 1 [yes/no]: yes
FPGA upgrade in progress!!! Please do NOT power off the unit!!!
Upgrade result :
Unit 1 FPGA upgrade successful. Power cycle the Unit 1 to complete the upgrade.
DellEMC#00:04:11: %S3048-ON:1 %DOWNLOAD-6-FPGA UPGRADE: stack-unit 1 fpga upgrade
success.
DellEMC#
Need to power cycle the unit to complete the FPGA upgrade.
```

- 2. Power cycle the system physically. Switch off the system by unplugging the power chords from the REAR PSUs and wait until the PSU FAN-REAR STATUS LED is completely OFF.
 - i NOTE: Do not switch on the system with PSU-REAR LED glowing AMBER.

You can alternatively power cycle the switch using the power-cycle stack-unit <1-6> command as follows:

```
DellEMC#power-cycle stack-unit 1
Proceed with power-cycle? Confirm [yes/no]:yes
```

3. The CPLD version can be verified using show revision command output:

```
show revision
```

EXEC PRIVILEGE

```
DellEMC#show revision

-- Stack unit 1 -- 
S3048-ON SYSTEM CPLD : 9

S3048-ON MODULE CPLD : 7
```

DellEMC#

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

Upgrade the BIOS from Dell Networking OS

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

1. Upgrade the S3048-ON Boot Flash image.

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

EXEC Privilege

2. Upgrade the S3048-ON Boot Selector image.

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

EXEC Privilege

Dell Networking OS version 9.14(1.12) requires S3048-ON Boot Selector image version 3.24.0.0-11. The booted option is used to upgrade the Boot Selector image to the image version packed with the loaded Dell Networking OS image. The Boot Selector image version packed with the loaded Dell Networking OS can be found using the **show os-version** command in EXEC Privilege mode.

```
Bootselector image upgrade for stack-unit 1 completed successfully. DellEMC#
```

3. Reload the unit

reload

EXEC Privilege

4. Verify the Boot Selector image

show system stack-unit <id>

EXEC Privilege

```
DellEMC#show system stack-unit 1
  Unit 1 --
Unit Type
                        : Management Unit
                         : online
Status
Next Boot
                         : online
Required Type
                        : S3048-ON - 52-port GE/TE (SG-ON)
                        : S3048-ON - 52-port GE/TE (SG-ON)
Current Type
Master priority
Hardware Rev
                         : 0.0
Num Ports
                        : 52
Up Time
                         : 13 min, 15 sec
Dell EMC Networking OS Version: 9.14(1.12)
Jumbo Capable : yes
POE Capable : no
                         : no
POE Capable
FIPS Mode
                         : disabled
Boot Flash
                         : 3.24.2.9
Boot Selector
                        : 3.24.0.0-11
                      : 2127654912 bytes
Memory Size
Temperature
                         : 30C
Voltage
                         : ok
Serial Number
                         : NA
Part Number
                        : 0VCY6T Rev A00
                        : NA
Vendor Id
                         : NA
Date Code
Country Code
                        : NA
                     : CN-123456-DELLI-215-8989
Piece Part ID
PPID Revision
                         : A00
Service Tag
                         : NA
Expr Svc Code
                        : NA
                        : enabled
: 00:e0:ec:25:d9:50
Auto Reboot
Burned In MAC
No Of MACs
-- Power Supplies --
Unit Bay Status Type FanStatus FanSpeed(rpm)
 1 1 up AC up 8032
1 2 up AC up 8096
           up
                     AC
 1
                           up
-- Fan Status --
Unit Bay TrayStatus Fan1 Speed
1 1 up up 7200
1 2 up up 7200
1 3 up up 7200
Speed in RPM
DellEMC#
```

Uninstalling Dell Networking OS on the S3048-ON

To uninstall the Dell Networking OS version 9.14(1.12) from the S3048-ON device, perform the following steps:

1. Reboot the system. During the reboot process, the system displays the following message prompting you to press the Esc key in order to stop the auto-boot process:

```
Version 2.16.1242. Copyright (C) 2020 American Megatrends, Inc. BIOS Date: 03/24/2022 15:25:58 Ver: 0ACBZ018 Press DEL or F2 to enter setup.

Grub 1.99~rc1 (Dell EMC) Built by root at ubuntu on Thu Mar 24 08:53:42 UTC 2022 S30000N Boot Flash Label 3.24.2.9 NetBoot Label 3.24.2.9

Press Esc to stop autoboot ... 5
```

2. At this prompt message, press the Esc key. The following menu appears:

- 3. From the menu, choose the **ONIE** option.
 - NOTE: To choose an option from the menu, highlight one of the options using the up or down arrow key and press **Enter**.

The following menu appears:

- 4. From this menu, choose the **ONIE**: Uninstall OSoption.
 - NOTE: To choose an option from the menu, highlight one of the options using the up or down arrow key and press Enter.

The uninstall process begins. Following is the log generated by the system while Dell Networking OS 9.14(1.12) uninstalls:

```
ONIE: OS Uninstall Mode ...
          : 3.24.1.0-4
Version
Build Date: 2022-03-24T13:53-0700
Info: Mounting kernel filesystems... done.
Info: Mounting LABEL=ONIE-BOOT on /mnt/onie-boot ...
Info: Using eth0 MAC address: 00:85:13:53:99:10
Info: Using eth1 MAC address: 00:85:13:53:99:11
Info: eth0: Checking link... up.
Info: Trying DHCPv4 on interface: eth0
DHCPv4 on interface: eth0 failedONIE: Using default IPv4 addr: eth0:
192.168.3.10/255.255.255.0
Info: eth1:
             Checking link... down.
ONIE: eth1: link down. Skipping configuration.
ONIE: Failed to configure eth1 interface
Starting: dropbear ssh daemon... done.
Starting: telnetd... done.
discover: Uninstall mode detected. Running uninstaller.
Erasing internal mass storage device: /dev/sda3 (300MB)
  Percent complete: 100%
Erase complete.
Deleting partition 3 from /dev/sda
Erasing internal mass storage device: /dev/sda4 (32MB)
Percent complete: 100%
```

```
Erase complete.
Deleting partition 4 from /dev/sda
Erasing internal mass storage device: /dev/sda5 (300MB)
  Percent complete: 100%
Erase complete.
Deleting partition 5 from /dev/sda
Erasing internal mass storage device: /dev/sda6 (300MB)
  Percent complete: 100%
Erase complete.
Deleting partition 6 from /dev/sda
Erasing internal mass storage device: /dev/sda7 (6578MB)
  Percent complete: 100%
Erase complete.
Deleting partition 7 from /dev/sda
Installing for i386-pc platform.
Installation finished. No error reported.
Uninstall complete. Rebooting..
umount: can't remount rootfs read-only
The system is going down NOW!
Sent SIGTERM to all processes
Sent SIGKILL to all processes
Requesting system reboot
sd 0:0:0:0: [sda] Synchronizing SCSI cache
Restarting system.
machine restart
BIOS (Dell EMC) Boot Selector
S3000 3.24.0.0-11
 (48-port 1G/4-port SFP+ 10G)
CPLD JTAG to normal mode... done.
Resetting...
POST Configuration
  CPU Signature 406D8
  CPU FamilyID=6, Model=4D, SteppingId=8, Processor=0
  Microcode Revision 125
  Platform ID: 0x1004183D
  PMG CST CFG CTL: 0x40006
  BBL CR CTL3: 0x7E2801FF
  Misc EN: 0x4000840081
  Gen PM Con1: 0x1008
  Therm Status: 0x884B0000
  POST Control=0xEA010303, Status=0xE6009601
BIOS initializations...
CPLD JTAG to normal mode...
BIOS initializations...
CPGC Memtest for Channel 0 ...... PASS
ECC enabled: channel 0 DECCCTRL_DUNIT_REG=0x000200F3
```

5. After the installation completes, the system displays the following ONIE prompt: $_{\tt ONIE:/\#}$

Installing a Third Party Operating System

Apart from the Dell Networking OS, you can also install a supported third party operating system on the S3048-ON system. For more information on installing a third party operating system, please check the ONIE documentation at https://github.com/opencomputeproject/onie/wiki/Quick-Start-Guide and refer to the respective third party OS vendor's website for OS installation instructions.

Support Resources

The following support resources are available for the S3048-ON system.

Documentation Resources

This document contains operational information specific to the S3048-ON system.

For information about using the S3048-ON, refer to the following documents at http://www.dell.com/support:

- Installing the S3048-ON System
- Quick Start Guide
- Dell Networking Command Line Reference Guide for the S3048-ON System
- Dell Networking Configuration Guide for the S3048-ON System

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

For more information about the open network installation environment (ONIE)-compatible third-party operating system, refer to http://onie.org.

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 S3048-ON system.

- For information about using the S3048-ON, refer to the documents at http://www.dell.com/support.
- For more information about hardware features and capabilities, refer to the Dell Networking website at https://www.dellemc.com/networking.
- For more information about the open network installation environment (ONIE)-compatible third-party operating system, refer to http://onie.org.

Contacting Dell Technologies

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

Dell Technologies 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 Technologies 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.