

Dell System S3048-ON 9.14(2.16) Release Notes

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(2.16)

Release Date: 2022-08-19

Previous Release Version: 9.14(2.14)

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NOTE: This document may contain language that is not consistent with current guidelines of Dell Technologies. There are plans to update this document over subsequent releases to revise the language accordingly.

Incorrect behavior or unexpected caveats are listed as the Problem Report (PR) numbers within the appropriate sections.

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

Document Revision History

Table 1. Revision History

Date	Description
2022-08	Initial release.



Supported Hardware

The following hardware is supported with this platform:

Hardware	
S3048-ON chassis	
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(2.16)
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(2.16) Features

The following features are integrated into the Dell Networking 9.14.2 branch through this release:

None

Restrictions

- Prerequisite steps to upgrade the Dell Networking OS from earlier version to 9.14.2.0 or later:
 - 1. Uninstall the older version of the Open Automation (OA) package
 - 2. Upgrade the Dell Networking OS to 9.14.2.0 or later version
 - 3. Install the following OA packages from the respective upgraded version:
 - a. SmartScripts
 - **b.** Puppet
 - c. Open management infrastructure (OMI)
 - d. SNMP MIB

Prerequisite steps to downgrade the Dell Networking OS from 9.14.2.0 or later to the earlier version:

- 1. Uninstall the OA package of 9.14.2.0 or later version
- 2. Downgrade the Dell Networking OS to an earlier version
- 3. Install the respective OA package from an earlier version

For more information about installing, uninstalling and upgrading the Dell Networking OS and OA package, see the respective Dell System Release Notes.

If you downgrade the Dell Networking OS version from 9.14.2.16 to 9.11.0.0 or any older versions, 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):
 - o PIM ECMP
 - Static IGMP join (ip igmp static-group)
 - o 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

The following behavior and CLI changes are applicable to the S3048–ON switch with Dell Networking OS version 9.14(2.16):
None

Documentation Corrections

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

The router bgp command allows you to configure only one L3 interface with an IPv4 address. The Configuration guide
does not mention this limitation and will be corrected in the next release of the guide.

Deferred Issues

Issues that appear in this section were reported in Dell Networking OS version 9.14(2.0) as open, but have since been deferred. Deferred caveats are those that are found to be invalid, not reproducible, or not scheduled for resolution.

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.

Category	Description
	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 "Closed Caveats" 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 caveat.

Deferred S3048-ON 9.14(2.0) Software Issues

Issues that appear in this section were reported in Dell Networking OS version 9.14(2.0) 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(2.0):

None.

Fixed Issues

Fixed issues are reported using the following definitions.

Category	Description
PR#	Problem Report number that identifies the issue.
	Trobott Nopole number that agricines the local.
Severity	\$1 — 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.
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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 "Closed Caveats" 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 caveat.

Fixed S3048-ON 9.14(2.16) Software Issues

NOTE: Dell Networking OS 9.14(2.16) includes fixes for caveats addressed in the previous 9.14 releases. Refer to the respective release notes documentation for the list of caveats fixed in the earlier 9.14 releases.

The following caveats have been fixed in Dell Networking OS version 9.14(2.16):

PR# 170307

Severity: Sev 3

Synopsis: In certain scenarios, when SSH daemon crashes the switch becomes

inaccessible.

Release Notes: In certain scenarios, when SSH daemon crashes the switch becomes

inaccessible.

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 "Closed Caveats" 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 caveat.

Known S3048-ON 9.14(2.16) Software Issues

The following caveats are open in Dell Networking OS version 9.14(2.16):

None.

Upgrading the sub-components

Ensure to upgrade the sub-components in the following order and reload the switch, where necessary, before proceeding with the next sub-component upgrade.

- 1. Upgrade the BIOS or Boot-selector using the upgrade boot bootselector-image stack-unit 1 booted command.
- 2. Upgrade the GRUB or Bootflash using the upgrade boot bootflash-image stack-unit 1 booted command.
- 3. Upgrade the CPLD using the upgrade fpga-image system cpld stack-unit 1 booted command.

Upgrade the BIOS or Boot Selector

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

1. Upgrade the S3048-ON Boot Selector image.

```
EXEC Privilege
```

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

Dell Networking OS version 9.14(2.16) 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.

```
DellEMC#upgrade boot bootselector-image stack-unit 1 booted
Current Boot information in the system:
______
Card BootSelector Current Version New Version
______
Unit.1
        Boot Selector
                    3.24.0.0-9 3.24.0.0-11
  ******************
  * Warning - Upgrading boot selectors is inherently risky and should *
    only be attempted when necessary. A failure at this upgrade may
    cause a board RMA. Proceed with caution!
Proceed upgrade Boot Selector image for stack-unit 1 [yes/no]: yes
FAN SPEED CHANGE: Fan speed changed to 52 % of the full speed
Bootselector image upgrade for stack-unit 1 completed successfully.
DellEMC#
```

2. Reload the unit.

EXEC Privilege

reload

3. Verify the Boot Selector image.

EXEC Privilege

show system stack-unit <id>

```
DellEMC#show system stack-unit 1
-- Unit 1 --
Unit Type
                            : Management Unit
Status
                            : online
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
                           : 13 min, 15 sec
Up Time
Dell EMC Networking OS Version: 9.14(2.16)
Jumbo Capable
                            : yes
POE Capable
                            : no
FIPS Mode
                           : disabled
Boot Flash
                            : 3.24.2.9
                            : 3.24.0.0-11
Boot Selector
Memory Size
                           : 2127654912 bytes
                            : 30C
Temperature
Voltage
                            : ok
Serial Number
                           : NA
```

```
Part Number
                      : 0VCY6T Rev A00
Vendor Id
                        : NA
                        : NA
Date Code
Country Code
                        : NA
                       : CN-123456-DELLI-215-8989
: A00
Piece Part ID
PPID Revision
                        : NA
Service Tag
Expr Svc Code
                        : NA
Auto Reboot
                        : enabled
Burned In MAC
                        : 00:e0:ec:25:d9:50
No Of MACs
-- Power Supplies --
Unit Bay Status Type FanStatus FanSpeed(rpm)
 1 1 up AC up 8032
1 2 up AC up 8096
-- 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#
```

Upgrade the GRUB or Boot Flash

To upgrade the GRUB or Boot Flash from Dell Networking OS, perform the following steps:

1. Upgrade the S3048-ON Boot Flash image.

```
EXEC Privilege
```

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

Upgrade the CPLD

The S3048-ON system with Dell Networking OS Version 9.14(2.16) requires System CPLD revision 10 and Module CPLD revision 9.

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 : 10

S3048-ON MODULE CPLD : 9

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(2.16)
        65838348
        Feb 21 2022 08:37:00

TARGET IMAGE INFORMATION :
                     Version Target checksum 9.14(2.16) Control Processor passed
       Type
runtime
BOOT IMAGE INFORMATION :
                      Version Target checksum 3.24.2.9 Control Processor passed
   Type
boot flash
BOOTSEL IMAGE INFORMATION :
                             _____
Type Version boot selector 3.24.0.0-11
                                                   Target checksum
       Control Processor passed
FPGA IMAGE INFORMATION:
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.

1. Upgrade the CPLD image.

EXEC Privilege

upgrade fpga-image stack-unit <id> booted

- 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:

EXEC Privilege

show revision

```
DellEMC#show revision

-- Stack unit 1 -- S3048-ON SYSTEM CPLD : 10

S3048-ON MODULE CPLD : 9

DellEMC#
```

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

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.

```
S3048-ON image>>>> onie-updater-x86 64-s3000 c2338-r0
```

3. UPGRADING ONIE ON AN EXISTING \$3048-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
                   : s3000_c2338
ONIE: Machine
ONIE: Machine Rev
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.

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

```
ONIE:/#
ONIE: / # tftp -g -r s3000-bios-3.24.0.0-11.bin 10.16.127.35
s3000-bios-3.24.0.0-11. 100% |**
                                                       ****** 8192k 0:00:00 ETA
ONIE:/
ONIE: / # flashrom -E -p internal
Erasing and writing flash chip... Erase/write done.
ONIE:/#
ONIE:/#
ONIE: / # flashrom -w s3000-bios-3.24.0.0-11.bin -p internal
Erasing and writing flash chip... Erase/write done.
Verifying flash... VERIFIED.
ONIE:/ #
ONIE:/ # reboot
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 Inc) Boot Selector
S3000 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-9.14.2.16.bin, is required for installing Dell Networking OS on S3048-ON that has only ONIE.

To install the Dell Networking OS version 9.14(2.16) on to the new S3048-ON device, perform the following steps:

1. 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-9.14.2.16.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:/
ONIE:/ # onie-nos-install tftp://10.16.127.35/ONIE-FTOS-SG-9.14.2.16.bin
Stopping: discover... done.
Info: Fetching tftp://10.16.127.35/ONIE-FTOS-SG-9.14.2.16.bin ..
ONIE-FTOS-SG-9.14.2.16 100% | ***
                                                  ******** 95426k 0:00:00 ETA
ONIE: Executing installer: tftp://10.16.127.35/ONIE-FTOS-SG-
.2.7.bin
Verifying image checksum ... OK.
Preparing image archive from /installer ... Done.
Verifying Product Platform..
Image File
                     : ONIE-FTOS-SG-9.14.2.16.bin
                      : 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 MayCCTRL DUNIT REG=0x000200F3
 RTC Battery OK at last cold boot
  RTC date Monday 02/21/2022 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.
NPU CDR...
           . .
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) 2021 American Megatrends, Inc. BIOS Date: 02/21/2022 01:14:04 Ver: 0ACBZ018
Press DEL or F2 to enter setup.
Grub 1.99~rc1 (Dell EMC)
Built by root at ubuntu on Mon_Feb_21_14:42:47_UTC_2022
S30000N Boot Flash Label 3.24.2.9 NetBoot Label 3.24.2.9
Press Esc to stop autoboot ... 0
```

5. After the installation completes, the system displays the following DELL 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 Networking 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 9.10.0.1P13 or above. 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:

EXEC Privilege

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

```
DellEMC#upgrade system tftp: a:
Address or name of remote host []: 10.16.127.35
Source file name []: FTOS-SG-9.14.2.16.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#Feb 21 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-9.14.2.16.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#Feb 21 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.

EXEC Privilege

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

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

CONFIGURATION

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

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

EXEC Privilege

```
write memory
```

```
DellEMC#write memory !
Feb 21 18:58:59: %STKUNIT1-M:CP %FILEMGR-5-FILESAVED: Copied running-config to startup-config in flash by default
DellEMC#
```

6. Reload the unit.

EXEC Privilege

reload

```
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(2.16).

EXEC Privilege

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(2.16)
Copyright (c) 1999-2021 by Dell EMC Inc. All Rights Reserved.
Build Time: Mon Feb 21 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#
```

Uninstalling Dell Networking OS on the S3048-ON

To uninstall the Dell Networking OS version 9.14(2.16) 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) 2021 American Megatrends, Inc. BIOS Date: 02/21/2022 01:14:04 15:25:58 Ver: 0ACBZ018

Press DEL or F2 to enter setup.

Grub 1.99~rc1 (Dell EMC)
Built by root at ubuntu on Mon_Feb_21_14:42:47_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:

```
+-----+
| Dell EMC Networking OS
| Dell EMC-Boot Line Interface
| DELL-DIAG
| ONIE
```

- 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 9.14.2.16 uninstalls:

```
ONIE: OS Uninstall Mode ...
Version : 3.24.1.0-4
Build Date: 2022-02-21T13:53-0700
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... done.
BIOS initializations...
CPGC Memtest for Channel 0 ...... PASS
ECC enabled: channel 0 MayCCTRL DUNIT REG=0x000200F3
```

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

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-Guidehttps://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 switch.

- 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

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

Dell 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 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.