D&LL Technologies

Dell SmartFabric OS10 Release Notes

This document describes the new and changed features, restrictions, resolved issues, and known issues in the Dell SmartFabric OS10 Release 10.5.3.3.
Current Release Version: 10.5.3.3
Release Date: 2022-02-25
Previous Release Version: 10.5.3.2

The information in this document is applicable to all the switches listed in the Supported hardware section.

For documentation about the Dell open network install environment (ONIE)-enabled hardware switches, see https://www.dellemc.com/networking.

Document revision history

Table 1. Revision History

Revision	Date	Description
A00	2022–02-25	10.5.3.3 Release—Added AR-40127, AR-40967, AR-41001, AR-41031, AR-41078, AR-41145, AR-41158, AR-41183, AR-41184, AR-41260, and AR-41277 to the Resolved issues in 10.5.3.3 section. Added AR-41099, AR-41167, AR-41319, AR-41324, and AR-41343 to the Known issues in 10.5.3.3 section.

Supported hardware

The current release is supported on the following Dell PowerSwitches:

- S3048-ON
- S4048-ON, S4048T-ON
- S4112F-ON, S4112T-ON
- S4128F-ON, S4128T-ON
- S4148F-ON, S4148FE-ON, S4148T-ON, S4148U-ON
- S4248FB-ON, S4248FBL-ON
- S5232F-ON, S5248F-ON, S5296F-ON
- S5212F–ON, S5224F–ON
- S5448F–ON
- S6010-ON
- Z9100-ON
- Z9264F-ON
- Z9332F-ON
- N3248TE-ON
- Z9432F-ON (In SFS deployments, this switch can only be used as a spine switch.)
- N3224F-ON

Related documentation

This section lists the documentation that is related to 10.5.3.3.

- *Dell SmartFabric OS10 User Guide*
- *Dell SmartFabric OS10 Installation, Upgrade, and Downgrade Guide*

See www.dell.com/support/home/en-us/product-support/product/dell-emc-smartfabric-os10/docs to download these documents.

New and changed in 10.5.3.3

None

Known Software Behavior - OS10

ⓘ **NOTE:** The software behaviors that are mentioned here are applicable to OS10.5.3.

Flow control configuration

- If a flow control change is performed on an autonegotiation enabled port, the port flaps once for the change to take effect.
- If a DAC (25G/40G/50G/100G/200G/400G) is connected to a switch, autonegotiation is enabled by default.

OS10 upgrades

- When upgrading from 10.5.0 to 10.5.2 or later, the upgrade goes through the ONIE install process and displays an ONIE update log. This does not indicate an upgrade failure. Do not interrupt the upgrade process as it proceeds automatically.

Resolved issues in 10.5.3.3

The following high severity issues have been resolved in this release.

Issue ID	Functional Area	Description
AR-40127	Dell network vision (DNV) SFS	The switch sends TACACS authentication requests for the admin username though not requested explicitly.
AR-40967	Dynamic host configuration protocol (DHCP)	The DHCP relay drops packets intermittently.
AR-41001	Virtual extensible LAN (VXLAN)	A software exception may occur when removing the route-target from the VRF. ⓘ **NOTE:** This fix is only applicable to the S4048T-ON, S6010-ON, S4100-ON series, S4200-ON series, S5200-ON series, and Z9400-ON series switches.
AR-41031	Port mirroring	TX-side port mirroring may stop functioning abruptly. ⓘ **NOTE:** This fix is only applicable to the S4100-ON Series switches.
AR-41078	Bidirectional forwarding detection (BFD)	Bringing down a BFD enabled interface fails to generate a log entry.
AR-41145	Media access control (MAC)	The switch allows static multicast MAC configuration incorrectly.

Issue ID	Functional Area	Description
AR-41158	Link aggregation control protocol (LACP)	Distribution and collection bits do not get cleared when sending graceful LACP PDU's during reload.
AR-41183	Virtual extensible LAN (VXLAN)	In certain scenarios, during VXLAN configuration in attached mode, MAC address programming may fail for ports in the VLAN.
AR-41184	Remote access dial in user service (RADIUS)	RADIUS server configuration removal fails when the RADIUS server VRF is changed to a default VRF from a non-default VRF.
AR-41260	Simple network management protocol (SNMP)	When performing an snmpwalk for OID `1.3.6.1.2.1.2.2.1.3 [Interface Type]`, snmpwalk fails to display the output of interface entries from the first virtual network interface.
AR-41277	Quality of service (QoS)	A switch exception may occur when a QoS policy is attached to an interface.

Resolved issues in 10.5.3.0-10.5.3.2

The following issues were resolved in earlier 10.5.3 releases.

Issue ID	Resolved in	Description
AR-36716	10.5.3.2	Dell switches do not forward Cisco VTP packets. ⓘ **NOTE:** This fix is only applicable to the S3048-ON, S4200-ON, and S5200-ON Series switches.
AR-40112	10.5.3.2	When reloading the switch into the standby partition, the switch freezes with `system is loading` displayed on screen.
AR-40414	10.5.3.2	An error may be seen when executing the `show command-history` command.
AR-40736	10.5.3.2	When migrating multisite interconnect links from the leaf to spine, the `Configure multisite fabric interconnect` option in the SFS UI cannot be used. ⓘ **NOTE:** This fix is only applicable to the VxRail solution.
AR-40850	10.5.3.2	`Timedated` process stops after being idle for 30 seconds.
AR-40892	10.5.3.2	In certain scenarios, after a reload, there maybe a mismatch in the routing table seen in the `show ip route` command output and the routing table in the Kernel or Hardware.
AR-40907	10.5.3.2	When using the `clear mac address-table dynamic address <mac-address>` vlan `<vlan-no>` command to clear a specific MAC address from the MAC address table, the ARP entry corresponding to the MAC address points to the wrong interface.
AR-40932	10.5.3.2	In a scaled VLAN setup, during upgrade or reload, certain VLAN programming options fail.
AR-41014	10.5.3.2	The switch may encounter a software exception when track object configuration is performed.

Issue ID	Resolved in	Description
AR-41016	10.5.3.2	When the ZTD process is not stopped, the switch may reload due to memory depletion.
AR-41050	10.5.3.2	If a non-default admin password is used in SFS mode, the admin account may get locked out. ⓘ **NOTE:** This fix is only applicable to the S4100-ON Series (except S4148FE-ON and S4148U-ON), S4200-ON Series (no VxRail support), S5200-ON Series, Z9264F-ON, and Z9432F-ON switches in SFS mode.
AR-41060	10.5.3.2	A traffic loop may be seen due to traffic bypassing the egress mask rule because of insufficient qualifiers added in the new BFD-VLT ACL rule.
AR-41063	10.5.3.2	Data traffic fails to transfer at 100M speed. ⓘ **NOTE:** This fix is only applicable to the N3248TE-ON switch.
AR-41084	10.5.3.2	VLT functionality is impacted when a user configures IPv6 or MAC ACL in control plane (CoPP).
AR-41104	10.5.3.2	All port LEDs stay on even when optics are not present. ⓘ **NOTE:** This fix is only applicable to the Z9332F-ON switch.
AR-25962	10.5.3.0	The following CVEs have been addressed: • CVE-2019-6488 • CVE-2019-7309 • CVE-2019-9169 • CVE-2016-10739 The CVE database can be accessed here: https://cve.mitre.org/cve/search_cve_list.html.
AR-38586	10.5.3.0	xSTP service may be unresponsive due to a Broadcast, Unknown unicast and Multicast (BUM) traffic loop.
AR-39051	10.5.3.0	BGP fails to advertise loopback addresses with a /32 mask when the `redistribute connected route-map` command is run.
AR-39274	10.5.3.0	In certain scenarios, vMotion does not function as expected.
AR-39288	10.5.3.0	CRC errors seen in 1G speed ports. ⓘ **NOTE:** This fix is only applicable to the S4128T-ON switch.
AR-39390	10.5.3.0	Unable to create CLI users with the $ character in the username.
AR-39465	10.5.3.0	If the destination IP address of an ERSPAN session is changed without unconfiguring the previous destination IP address, it may cause an exception when trying to bring up the ERSPAN session.
AR-39518	10.5.3.0	Route-maps with multiple `set-community` attributes do not function as expected.
AR-39617	10.5.3.0	A VLT node may become unresponsive every few days due to an unresponsive `systemd` service.
AR-39768	10.5.3.0	A duplicate ICMP packet is sent out from the switch when ACL logging is configured in an interface.
AR-39778	10.5.3.0	Unable to fetch the exact memory available for use in the switch using SNMP.
AR-39817	10.5.3.0	In a VLT environment, when a topology change is performed, RPVST takes around 30 seconds to converge.
AR-39858	10.5.3.0	In certain scenarios, the `rate info` values in the `show interface` command output display as zero, because of a timestamp overflow.

Issue ID	Resolved in	Description
AR-39902	10.5.3.0	When Digital Optical Monitoring (DOM) is enabled and the optics are shut down, low rx-power, and tx-power critical warnings are seen with the SFP+ 10GBASE-SR module.
AR-39935	10.5.3.0	When the `crypto fips enable` command is used, and the switch is reloaded, some test SNMP users get created and deleted which generates a coredump but does not affect the functioning of the switch.
AR-39964	10.5.3.0	The following CVEs have been addressed: ● CVE-2021-23839 ● CVE-2021-23840 ● CVE-2021-23841 The CVE database can be accessed here: https://cve.mitre.org/cve/search_cve_list.html.
AR-40066	10.5.3.0	The VLT secondary switch may encounter a software exception if there are frequent ICL port flaps within 3 seconds.
AR-40094	10.5.3.0	Local `sysadmin` users cannot enter any commands when the TACACS server is inaccessible due to an unconfigured host or secret key mismatch.
AR-40194	10.5.3.0	If the plain text password length is 16 characters, OSPF neighbors with md5 remain down after reload.
AR-40226	10.5.3.0	Setting a local SNMP `engine-id` may cause a switch exception.
AR-40228	10.5.3.0	X.509 certificate revocation list (CRL) download fails if the X.509 certificate contains more than one CRL distribution point.
AR-40281	10.5.3.0	RADIUS authentication does not function when using the character `[` in the key.
AR-40482	10.5.3.0	If a port is an untagged member of a VXLAN, and a tagged member of a normal VLAN, when the port is operationally down, the VLAN MACs do not get cleared.
AR-40573	10.5.3.0	Security updates for authentication related vulnerability in RESTCONF API.
AR-40631	10.5.3.0	AAA authentication may fail if the # character is used in the TACACS server password.
AR-40686	10.5.3.0	The following CVEs have been addressed: ● CVE-2021-3711 ● CVE-2021-3712 The CVE database can be accessed here: https://cve.mitre.org/cve/search_cve_list.html.
AR-40704	10.5.3.0	Security updates for authentication related vulnerability in SmartFabric Services.
AR-40884	10.5.3.0	Abrupt power outages may render the OS10 partition non-functional, the switch may freeze with a `System is loading` message displayed on screen. ⓘ **NOTE:** This fix is only applicable to the S4100-ON Series switches.

Known issues in 10.5.3.3

The following high severity issues remain unresolved in this release.

Issue ID	Functional Area	Description	Workaround or Resolution
AR-39782	**Management services**	The `running-configuration` timestamp gets updated on every new session opened, without any configuration changes being performed.	Configure the `no service obscure-password` command.
AR-39839	**SmartFabric**	Multiple fabric validation warnings do not get cleared even after the configurations are synced and stabilized. There is no functionality impact.	None
AR-40149	**SNMP**	When an encrypted password is copy pasted in the `snmp-server user` command or running config, the command fails to function as expected.	The encrypted password must be saved and loaded through the startup config.
AR-40241	**VXLAN**	When reconfiguring the `virtual-network`, `remote-vtep`, and `vxlan-vni` commands, there may be a mismatch between MAC addresses learned in the actual hardware, and the `show mac-address virtual-network` command output.	Use the `clear mac address-table dynamic virtual-network` command to resolve this issue.
AR-40608	**VXLAN**	With ARP suppression enabled, ARP or neighbor entries on virtual-network interfaces may not be in sync with VLT peers after running the `clear ip arp` command on VLT peers.	ARP or neighbor entries are learned automatically when data traffic, ARP, or neighbor resolution packets hash to the VLT peer. No action is needed.
AR-40677	**Routing**	If the reserved IPv6 subnet (fde1:53ba:e9a0:cccc::/64) IP address is used for data virtual networks (VN) in any of the nodes which are part of a cluster, and that node becomes the master or if the node is reloaded and becomes the master, cluster connectivity or data VN Connectivity may be lost. ⓘ **NOTE:** This issue is only seen on the S4100-ON Series, S5200-ON Series, Z9100-ON, Z9264F-ON, and Z9432F-ON switches.	Unconfigure the reserved IPv6 address from the data VN and configure an IPv6 address from another subnet.

Issue ID	Functional Area	Description	Workaround or Resolution
AR-40685	VxRail	When the admin status of a server connected interface is explicitly enabled using the SFS UI, OMNI UI, or REST APIs, there may be traffic loss on those ports when the node is reloaded. ⓘ **NOTE:** This issue is only applicable to the VxRail solution.	Do not configure admin state for the server port from the SFS UI, OMNI UI, or REST API.
AR-41006	Optics	Power details display as zero in the `show interface phy-eth transceiver` command output. There is no functionality impact, the optics connected to the ports are `OPER UP`, and all media settings and other show outputs are correct. ⓘ **NOTE:** This issue is only applicable to the S5448F-ON switch.	None
AR-41099	Management services	Some interfaces may go missing from the `show brctl` command output and MAC addresses are not learned on the interface after upgrading to 10.5.3.0. ⓘ **NOTE:** This issue is only seen on the S4148T-ON and Z9432F-ON switches.	None
AR-41138	SupportAssist	SCG (Secure Connect Gateway) 5.0 shows as failed for the PowerSwitch in the `Status` section on the `Manage device` page.	Official support along with the resolution for supported PowerSwitch products will be added in SCG 5.1.
AR-41167	Precision time protocol (PTP)	Holdover takes longer than expected when the G8275.2 profile is in use.	None
AR-41319	Management services	When using the `password-attributes character-restriction special-char` command to set password attributes, it does not allow the setting of the number of numeric and special characters.	None
AR-41324	Port group	Auto break-out fails if more than two ports are present in the `hybrid-port-group` instance.	None

Issue ID	Functional Area	Description	Workaround or Resolution
		ⓘ **NOTE:** This issue is only seen on the S5448F-ON, Z9332F-ON, and Z9432F-ON switches.	
AR-41343	**SmartFabric**	When trying to validate the S5448F-ON switch, it shows as unsupported in SmartFabric services. ⓘ **NOTE:** This issue is only seen on the S5448F-ON switch.	None

Installation

⚠️ **WARNING: When upgrading from OS10.4.3.x to OS10.5.x.x, ensure that all pre-requisites are met before starting the multi-step upgrade process.**

For complete installation and upgrade information using the ONIE installer, follow the instructions in the Dell SmartFabric OS10 Installation, Upgrade, and Downgrade Guide.

See www.dell.com/support/home/en-us/product-support/product/dell-emc-smartfabric-os10/docs to download this guide.

Support resources

The Dell support site provides a range of documents and tools to assist you with effectively using Dell devices. Through the support site you can obtain technical information regarding Dell products, access software upgrades and patches, download available management software, and manage your open cases. The Dell support site provides integrated, secure access to these services.

To access the Dell support site, go to www.dell.com/support/. Sign in with a previously created account or create a new account. To display information in your language, scroll down to the bottom of the page and select your country from the drop-down menu.

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

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

● To submit service requests or to contact technical support by phone or chat, click **Contact Us**, then click **Technical Support**.

To access product documentation and resources that might be helpful to configure and troubleshoot the OS10 Networking operating system, see the Dell Networking OS10 Info Hub.

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

To participate in Dell community blogs and forums, see www.dell.com/community.

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.**

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