D&LL EMC

OpenSwitch OPX
2.3.0 Release Notes

This information describes the new features and known issues for the OpenSwitch OPX, release 2.3.0. For detailed information about how to install, use, and develop applications for OpenSwitch OPX, see the *OpenSwitch OPX* documentation set at http://archive.openswitch.net/docs/.

For documentation about supported Dell EMC open network install environment (ONIE)-enabled hardware platforms, see https://www.dell.com/networking.

New in this release

The following lists new features for OpenSwitch OPX release 2.3.0.

- Added support for Dell EMC Networking S5148F-ON, S4248FB-ON, and S4248FBL-ON switches
- Persistent ACL configuration
- Support for interfaces table MIB via PySNMP
- Ability to upgrade OPX packages via `apt-get dist-upgrade` (release 2.3.0 and above)
- Fixes for issues found by the OPX community
- Dell EMC Networking S6000-ON has reached end of life

Hardware support

The following lists the supported hardware for OpenSwitch OPX, release 2.3.0:

- S3048-ON
- S4048-ON / S4048T-ON
- S4128F-ON / S4128T-ON
- S4148F-ON / S4148FE-ON / S4148T-ON
- S4248FB-ON / S4248FBL-ON
- S5148F-ON
- S6010-ON
- Z9100-ON

Restrictions

- OpenSwitch OPX is supported only on an ONIE-enabled switch. See hardware support for a list of supported Dell EMC switches
- Dell EMC does not provide support for third-party software and drivers, community projects, code development, or implementation and development of security rules and policies

Known software behavior

The following lists the known software behavior for OpenSwitch OPX release 2.3.0:

- IPV6
  - Physical port and port-channel (LAG) interfaces are in L2 mode by default. IPv6 capability and forwarding are disabled by default
  - VLAN and loopback interfaces come up in L3 mode with IPv6 capability and forwarding enabled by default
  - IPv6 stateless auto-configuration can be disabled without affecting an interface's IPv6 forwarding setting
  - On the Management interface, IPv6 is enabled by default. IPv6 forwarding is disabled so that the interface operates in host mode without routing traffic
  - IPv6 stateless auto-configuration is disabled by default, except on the Management interface
- VLANs
  - The valid VLAN ID range is 1 to 4094 inclusive; VLAN ID 4095 is reserved for internal use only

Known issues

The following lists the known issues for OpenSwitch OPX release 2.3.0:

- IPv4 routing
  - When you change the preference values for static routes dynamically, they are not honored.
  - Workaround: Remove the old preferred route entry and add the new preferred route entry.
- IPv6 routing
  - Disabling IPv6 on an interface may result in loss of static IPv6 routes configured in that interface as next-hop.
  - Workaround: After disabling IPv6 on an interface, remove and reapply static IPv6 routes that are pointing to the interface as next-hop.
- Upgrading OpenSwitch
  - When you upgrade OpenSwitch using `apt-get update; apt-get dist-upgrade`, sometimes the upgrade may hang.
  - Workaround: If the upgrade hangs, initiate another management session to the system (via SSH to the management IP address), run `sudo dpkg --configure -a` to finish the update, then reboot.
- Z9100-ON 10GbE SFP+ ports
  - When multiple interfaces are configured for fan-out in `/etc/opx/dn_nas_fanout_init_config.xml`, the two built-in 10GbE SFP+ ports may fail to come up after a reboot.
  - Workaround: If possible, fan-out the interfaces after boot using `opx-config-fanout` to retain the functionality of the 2x 10GbE SFP+ ports.

Installation

See the OpenSwitch OPX Installation Guide release 2.3.0 for complete information.

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