

OpenSwitch OPX

3.1.0 Release Notes

This information describes the new features and known issues for the OpenSwitch OPX, release 3.1.0. For detailed information about how to install, use, and develop applications for OpenSwitch OPX, see the [OPX Wiki](#) for complete information.

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

New in this release

OpenSwitch OPX release 3.1.0:

- Added support for S5232F-ON, S5248F-ON, and S5296F-ON switches
- Inter-VRF routing
- Static L2 VxLAN
- S5148-ON ingress ACL improvement
- OPX config tools phase 1
- Z9264F-ON and S5200 fanout utilities

OpenSwitch OPX release 3.0.0:

- Debian Stretch
- Added support for S4112F-ON, S4112T-ON, and Z9264F-ON switches
- Data VRF (IP services such as DHCP client and relay, DNS, ping, traceroute) ¹
- CoPP ACLs ²
- Ansible enhancements
- NTPv4 now included in installer
- sFlow (new version built on CPS API - see <https://sflow.net/downloads.php> to download the hsflowd package for OpenSwitch)
- Zero-touch deployment
- IP unnumbered support
- TACACS+ and RADIUS (as supported on Linux; OpenSwitch will publish guidance)
- SNMPv3 support
- Introduced `--set` option to the `cps_config_lag` command which allows you to overwrite an existing list (for example, `cps_config_lag --set --lname bnd1 --port e101-001, e101-004, e101-005`)
- Removed FRR from the installer (go to github.com/FRRouting/frr/releases to download the FRR package for installation)

OpenSwitch OPX release 2.3.1

¹ Not supported on the S5148-ON in this release.

² Not supported on the S5148-ON in this release.

- Introduced `reload/reboot` command to reset the NPU when resetting the switch for all platforms except Dell EMC Networking S5148F-ON (see [Known issues](#))

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 3.1.0:

- S3048-ON
- S4048-ON / S4048T-ON
- S4112F-ON / S4112T-ON
- S4128F-ON / S4128T-ON
- S4148F-ON / S4148FE-ON / S4148T-ON
- S4248FB-ON / S4248FBL-ON
- S5148F-ON
- S5232F-ON
- S5248F-ON
- S5296F-ON
- S6010-ON
- Z9100-ON
- Z9264F-ON

Restrictions

- OpenSwitch OPX is supported only on an ONIE-enabled switch (see [hardware support](#) for a list of supported Dell EMC and Edgecore 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 3.1.0:

- Interface fan-out
 - For the Z9264F-ON, interfaces are organized by hybrid-group; only restricted-mode hybrid-groups may be broken out to x4 interfaces. These settings are manipulated with the `opx-config-hybrid-group` command.
 - For the S5248F-ON and S5296F-ON, interfaces are organized by port-group and must share the same speeds. They must be fanned-out with `opx-config-fanout` using the `pg_name` argument.

Known issues

The following lists the known issues for OpenSwitch OPX release 3.1.0:

- S4248FB-ON and S4248FBL-ON platforms

- Traffic does not pass for L3 VLANs over LAGs (aggregated links consisting of more than one port). This is being investigated and will be fixed in an update.

Fixed issues

The following lists the fixed issues for OpenSwitch OPX release 3.1.0.

- Z9264F-ON
 - The fanout must be done using the `opx-config-hybrid-group` command

Installation

See [Install OPX on Dell EMC ON-Series platforms](#) for complete installation information.

Upgrade

Run the following commands to obtain upgrades for OpenSwitch OPX software packages:

- `sudo apt-get update`
- `sudo apt-get dist-upgrade`
- `sudo reload`

The list of package repositories from which updates are obtained can be found in `/etc/apt/sources.list`.

① NOTE: Any packages (like sFlow or FRRouting) that are not included in Debian or the OpenSwitch OPX package repositories need to be updated manually.