



Your Way to Build
Composable Networks

What is OPX?

Linux Foundation
Networking (LFN)
Open Source Project

1/10/25/40/100G
platform support

Open source NOS
for open hardware
switches

Commercial
grade turnkey
solution

Rapid on-boarding of new
platforms, protocols, and
applications built on top of
unmodified Linux Distribution.

Why OPX?

Operational efficiency benefits

- Software & hardware disaggregation
- Free NOS base brings CAPEX savings
- Open/Premium applications save OPEX

Network agility and features velocity

- Custom modifiable open source code
- Extensible to support new platforms
- Framework to integrate new applications

Use OPX NOS with confidence

- Commercially deployed today
- Leading open networking hardware
- Field-proven control protocol
- Multiple production deployments

WEBSITE: www.openswitch.net

CONTRIBUTE: www.github.com/open-switch

DOWNLOADS: archive.openswitch.net

MAILING LIST: ops-dev@lists.openswitch.net

FOLLOW US: @openswitchopx

CHAT: chat.openswitch.net

OPX Features

Linux feature integration

- Debian Stretch
- LLDP, STP, PVST, ICMP, DNS client, NTPv4, DHCP Client
- RADIUS, TACACS+, SSHv2, SCP
- Linux utilities & tools which deliver full-featured networking capabilities

L2 features

- LAG, VLAN, CoS

L3 features

- IPv4 & IPv6 support
- BGPv4+, OSPFv2/3, ECMP, VRF's, VRRP, ARP, IGMPv2

Security and instrumentation

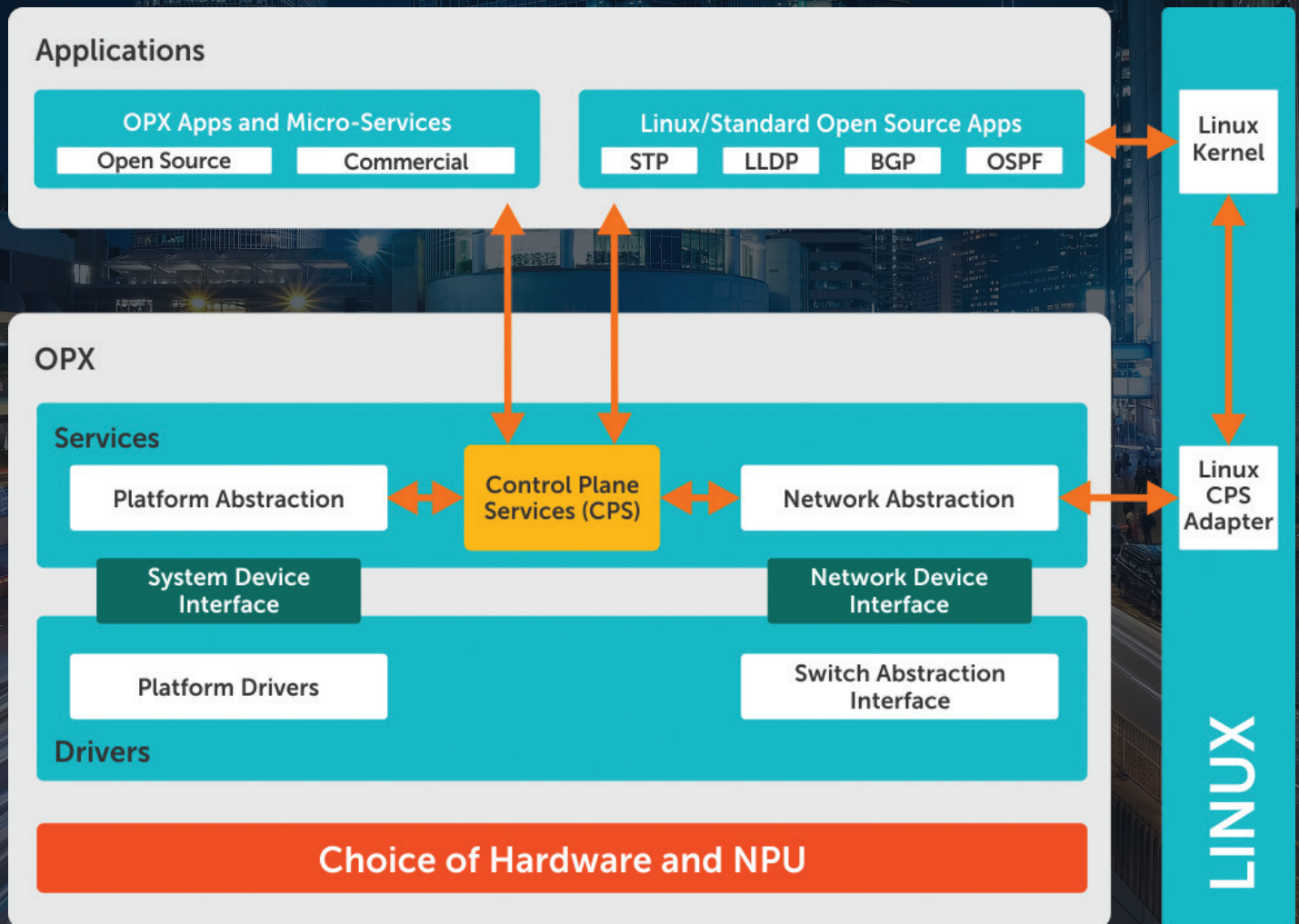
- ACL: 5-tuples, L2/L3, UDP
- Monitor: (R)SPAN, sFlow

QoS

- DiffServ, PFC, CoPP
- Policers, shapers, scheduling

Other

- Control plane services APIs
- Automation/provisioning: Ansible, Chef, Puppet, Salt + Napalm
- Programmability via Python, C/C++, yang interfaces
- Configuration & persistence using opx-tools



Open Source Disaggregated Network OS

- Modular, scalable, extensible, performance-optimized architecture
- Allows for rapid onboarding of applications and hardware
- Full interoperable with existing network deployments
- ASIC/NPU extensions easily integrate using switch abstraction interfaces (SAI)
- Deploy native Linux applications supplemented by OPX stack

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