OCP Networking Project Overview

OCP Telco workshop
Big Communications Event, Austin, TX
2016-05-23

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“...create a set of networking technologies that are **disaggregated** and **fully open**, allowing for rapid innovation in the network space...”

founder charter, May 2013
started in large data centers...
OCP Networking as of March 2015

- One accepted switch
- Software building blocks
- Testing efforts starting

**Takeaway:**
Disaggregation was here, but still ramping up!
What a difference a year makes
OCP networking hardware

- Full design packages
- Community review
- Testing program
- Disaggregation
- Hardware and software
- Multiple layers
11 OCP data center switches accepted

- 16x40G
- 48x10G
- 32x40G
- 36x40G
- 32x100G
Newly shared OCP specs - new DC switches

- Facebook Wedge 100
- Alpha 48x10G and 32x100G
Newly shared OCP specs - new silicon

- 48x10G Mediatek/Nephos
- 32x100G Edge-core with Cavium
Newly shared OCP specs - chassis/modular

- Facebook “6-pack” - 128X40G
- Edge-core 256x100G, 512x100G
Newly shared OCP devices - edge & access

- Edge - based on Broadcom “Qumran” - deep buffers, expandable TCAM
- Access - 48x1G w/ stacking & POE options
Newly shared OCP devices - access points

- 2 indoor, 1 outdoor
- 802.11ac
OCP hardware needs... software

- Every OCP networking device supports choice in software
Initial work was in “building blocks”
ONIE, ONL, SAI
Still continuing
Moving up to actual forwarding functionality
A growing ecosystem of software

- Multiple projects and providers emerging
- Open source and commercial
- Distributed and centralized
moving to telcos
What does this mean for telcos?

- OCP Network will work closely with OCP Telco/OCP server
- Applicable to Telco data centers (either edge or core)
- Telco exchanges
- Disaggregated access points - HW and SW
- Opening up and going up the software stack
- Simplifying the overall deployments
- … even more …