OCP Networking
Engineering Workshop

Scott Emery (Cumulus Networks) & Omar Baldonado (Facebook)
August 30, 2018
Flex Customer Experience Center
Milpitas, CA
From our (new) charter

"The overall mission of the OCP Networking Project is to create a set of networking technologies that are disaggregated and fully open, allowing for rapid innovation in the network space.”
The page & wiki & mailing list

- [https://www.opencompute.org/wiki/Networking](https://www.opencompute.org/wiki/Networking)
- Specs, designs, and links to subprojects
2018 Hardware to date

• Accepted
  - Agema AG6248C-POE - 48 port 1G, 2x10G
  - Edgecore Networks ECW7212-L - 2x2 indoor wireless AP
  - Edgecore Networks ECW7220-L - 3x3 indoor wireless AP
  - Edgecore Networks ECWO7220-L - 3x3 outdoor wireless AP
  - Edgecore Networks ECW5211 - 2x2 indoor wireless AP
  - Edgecore Networks ECW5410 – 4x4 indoor wireless AP
  - SKT T-CAP - CNA-SSX2RC

• Contributed
  - Alpha SNC-60x0-488F 48x25G switch with 8x100G uplinks using Trident3
  - Edgecore Networks - 32x400G - based on Broadcom Tomahawk III
  - Facebook Fabric Aggregator - based on Wedge 100S

• 30+ accepted hardware specifications and design packages, 15+ in pipeline across enterprise, hyperscale, campus/branch, wireless, ...
Several major open-source projects in large-scale, production use and continue to grow their communities

Very active subgroups starting close to the hardware and going up

Many opportunities for cross-group, cross-org interaction
- OCP’s Open System Firmware
- Linux Foundation

The focus of today’s workshop
- Fostering interest amongst developers and potential adopters
Going forward

• Looking to expand adoption of OCP hardware and usage of OCP software

• Growing the communities with more adopters – the purpose of today

• Tracking validated solutions and testing
Our Logistics

• Thanks to Flex for hosting and support!

• Wifi

• Conference rooms/breakouts
  - SAI/SONiC – here
  - ONIE/ONL – Riesling 1 & 2 – in secure area, need Flex escort

• Facilities
High-level Agenda

Morning
• 9:30-10:30am - ONIE Overview - Curt Brune (Cumulus)
• 10:30-11:00am - ONL Overview - Jeff Townsend (Big Switch Networks)
• 11-11:30am - SAI/SONiC Overviews - Xin Liu (Microsoft)
• 11:30-12 - CBW Overview - Omar Baldonado (Facebook)

Lunch
• 12-1:30pm - Lunch/Tour & A Word from our Sponsor, Flex

Afternoon
• 1:30-5pm - Breakout Tracks (SAI/SONiC, ONIE, & ONL)
  * SAI/SONiC – CEC
  * ONIE/ONL – breakout rooms
• 5-6pm - Cocktail Hour & Networking
Thank you!