OCP Tech Talks: Networking

May 10-12, 2022

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Meta

Agenda

- Introduction to OCP Networking Project

- Key updates since the last summit

- Review today's talks

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The OCP Networking Project

- Facilitate and enable new and innovative open networking HW and SW that enable hyperscale, large enterprise, and large telco network solutions through collaboration with the wider OCP ecosystem

- Supports sub-projects anchoring around particular focus areas

  - Open Network Install Environment (ONIE)

  - OpenNetworkLinux (ONL)

  - Switch Abstract Interface (SAI)

  - Enterprise Connectivity Solutions (ECS)

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Key updates to OCP Networking

- New sub-projects launched

  - NIC Software: Focusing on NIC networking features (Mar '22)

  - AEC Interconnect (Apr '22)

- SONiC sub-project has moved from OCP to Linux-Foundation

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Agenda of Talks: Day 1, May 10

8.35 - 8.55 AM	Rita Hui (Microsoft) Shri Khare (Meta)	SAI sub-project updates
9.00 - 9.10 AM	Steven Noble (Amazon)	OpenNetworkLinux sub-project updates
9.10 - 9.25 AM	Jack Redpath (ArsiaLabs) Jeff Strange (Target)	Enterprise Connectivity Solutions (ECS) sub-project updates
9.30 - 9.55 AM	Jakub Kicinski (Meta) Willem De Bruijn (Google)	Datacenter NIC crypto offloads - progress
10.00 - 10.25 AM	David Iles (NVIDIA)	Adaptive Routing For AI Clusters and Storage Fabrics (Ethernet)
10.30 - 10.55 AM	David Iles (NVIDIA)	Data Center Fabrics need to be Smart at every Tier – not just the edge
11.00 - 11.25 AM	Jay Vargas (Scala Computing) Dan Mihailescu (Keysight)	A Novel Approach For Experimentation, From Lab Testing To Large Data Center Simulations

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Call for action: Day 1

Agenda of Talks: Day 2, May 11

8.30 - 8.55 AM	Qing Wang, Thang Pham, Abhijit Chakravarty, Arun Mohan, Tom McCandlish (Meta)	200G/400G FR4 large-scale deployment in Meta's data center
9.00 - 9.25 AM	Chris Berry, Chet Powers (Meta)	Automating Triaging of Network Circuit Flaps and Port Failures
9.30 - 9.55 AM	Absar Ulhassan (Meta)	Multi-Path Interference Detection for intra-DC links
10.00 - 10.25 AM	Xu Wang (Meta)	OCP driven standardization to deliver high volume NPO switch systems for the future
10.30 - 10.55 AM	Ivan Kong (Ragile Networks)	51.2Tbps NPO Switch Practice and Challenges

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Call for action: Day 2

Agenda of Talks: Day 3, May 12

8.30 - 8.55 AM	Don Barnetson (Credo Semiconductor) Run Almog (DriveNets)	The HiWire Consortium Joins Forces with OCP to Standardize Active Electrical Cables (AECs)
9.00 - 9.25 AM	Jack Redpath (ArsiaLabs)	OCP Gigabit Access Switch for Enterprise - Community Spec. Review
9.30 - 9.55 AM	Mingxuan Li (China Unicom)	EdgeFaaS Collaborative R&D for Open Edge Scenarios
10.00 - 10.25 AM	Venkat Pullela, Manodipto Ghose, Nitesh Jha (Keysight)	Testbed in a Box - SONiC case study
10.30 - 10.55 AM	Cliff Grossner (OCP Foundation)	OCP HW-SW co-design strategy. OCP and LF working together

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Call for action: Day 3