

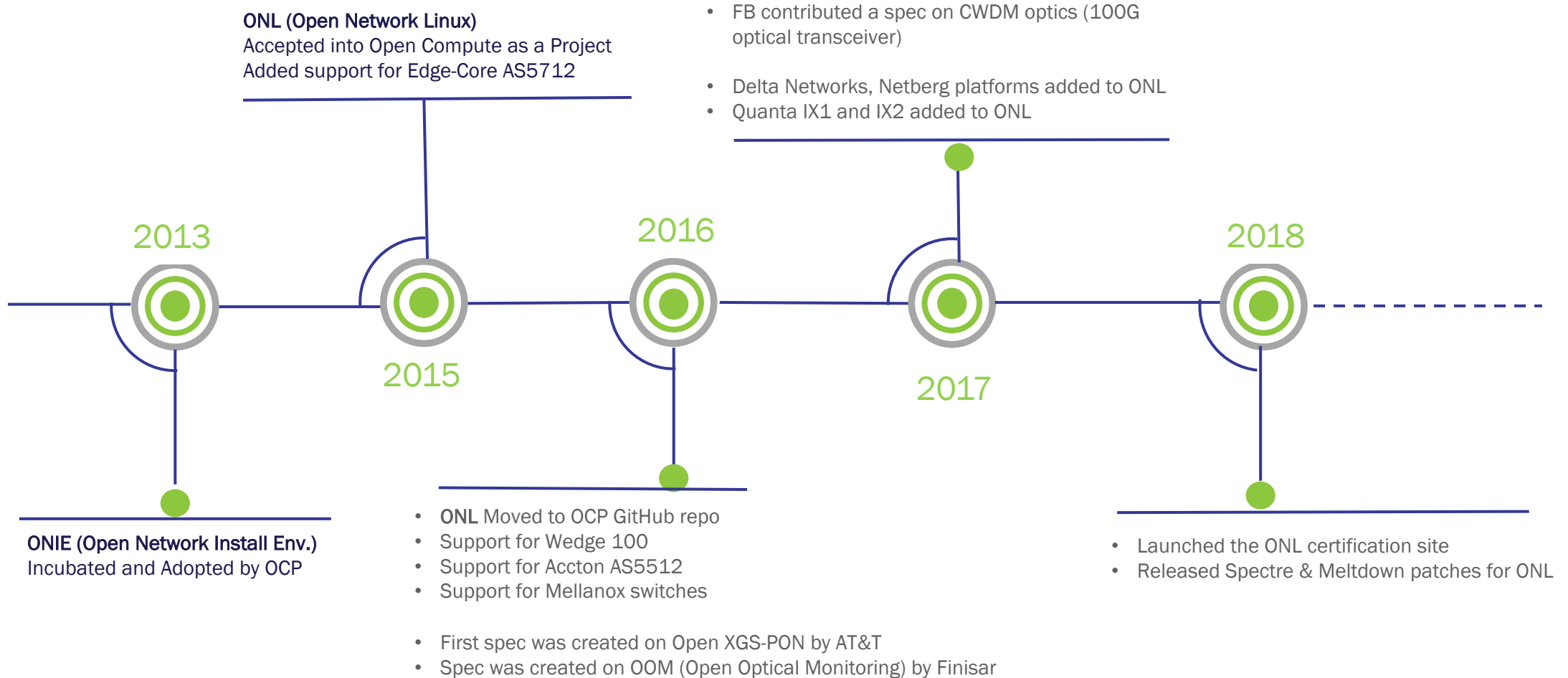
Open Compute Project

Network Hardware &
Embedded Software

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Timelines for Network contributions



What is OPEN hardware?



Specifications



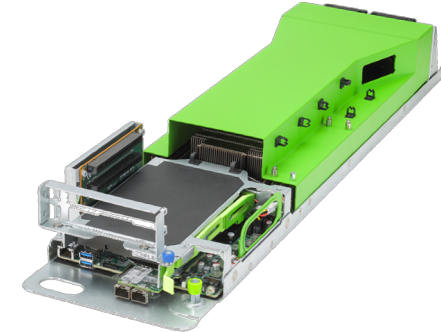
Design Packages



Embedded SW

Contributed with a **Royalty-free, non-assert** License (CLA)

Products



IP retained by
OEM/ODM



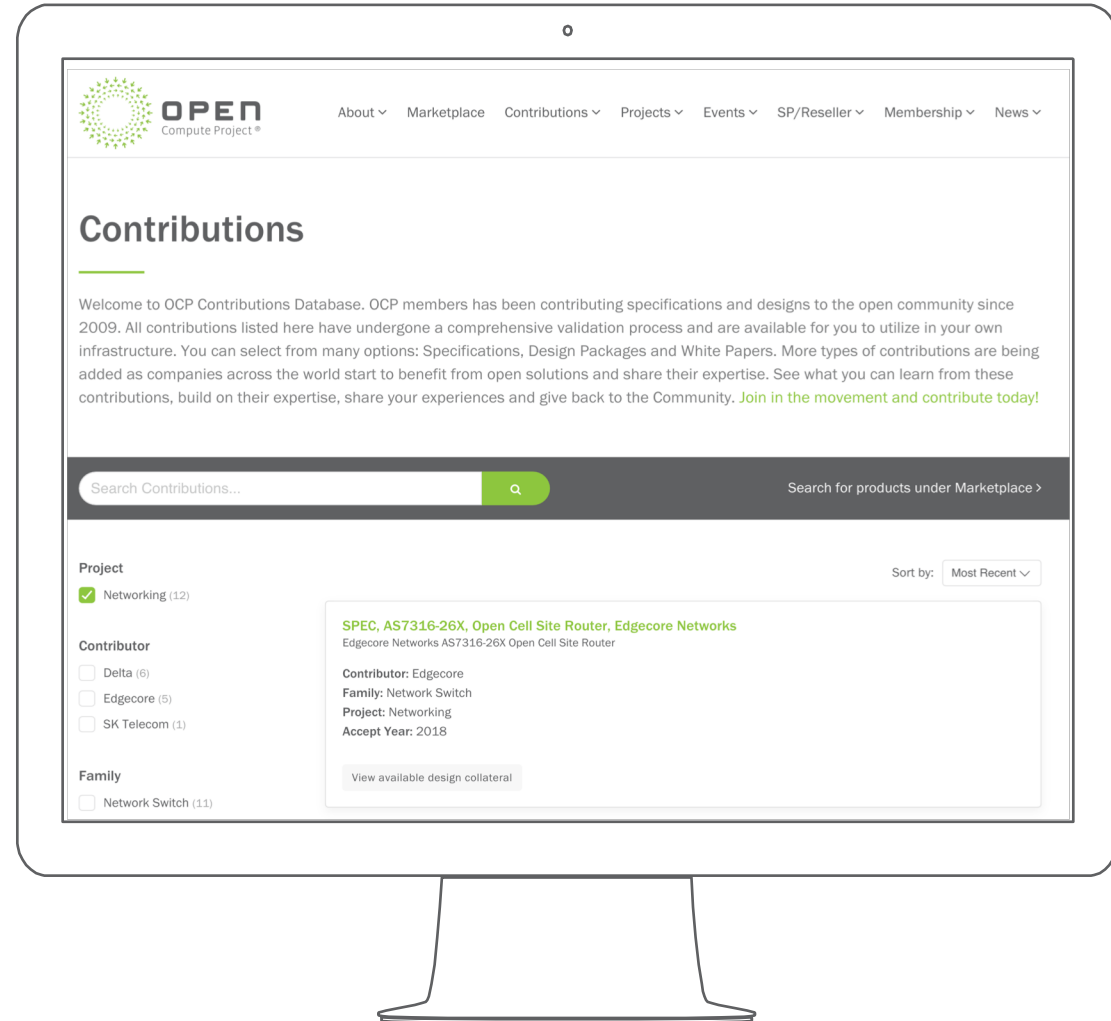
Where to get the information

Searchable Database

Design Collateral

- specifications
- Schematics
- CAD files
- Bill-of-Materials

Product Information



OCP Core Projects

ONIE

(Open Network Install Environment)

SAI

(Switch Abstraction interface)

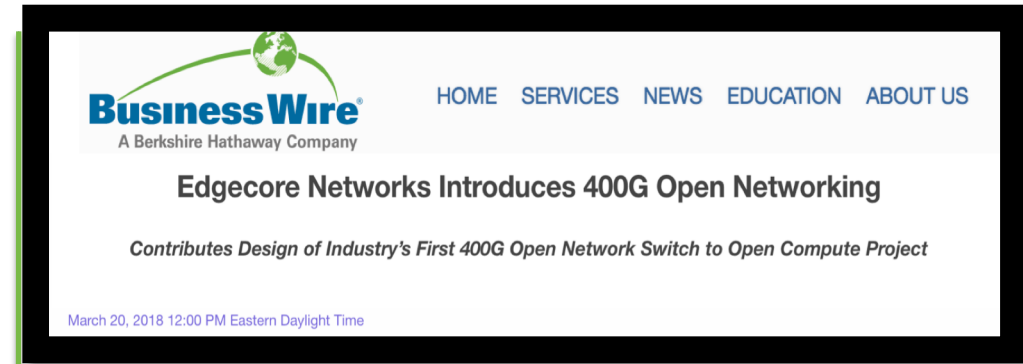
ONL

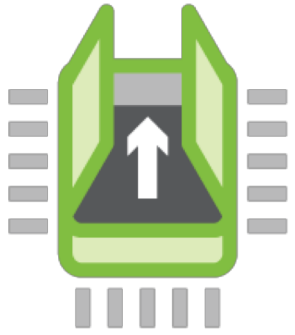
(Open Network Linux)

SONiC

(Software for Open Networking in the Cloud)

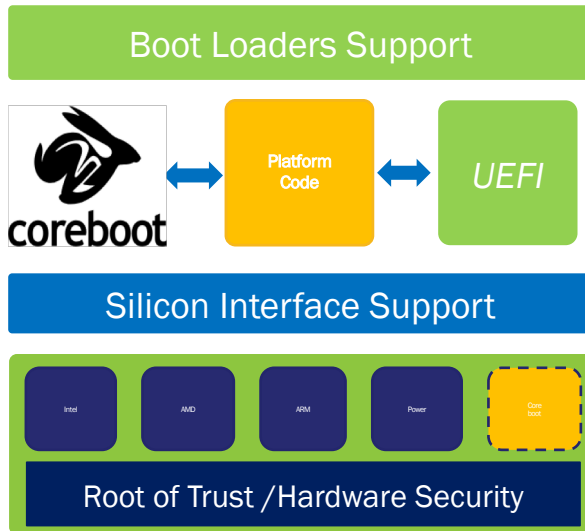
The 400G switch supports OCP software standards, including ONIE, ONL and the Redfish management API





Embedded NW Software Projects

OPEN Systems Firmware



SAI

Case Study on LINX

- Presented the case study at the OCP regional summit
- They started revamping their network infrastructure in 2016
- Explored many options to build their next generation network
- Decided to adopt HW from Edgecore Networks, owned by Accton Technology group, as well as software from IP Infusion
- New solutions employs EVPN over MPLS, leaf-spine topology, full automation and 100G ready
- Huge savings on capital of investment, operational / Support cost and space and power



Big Switch work in progress on ONL

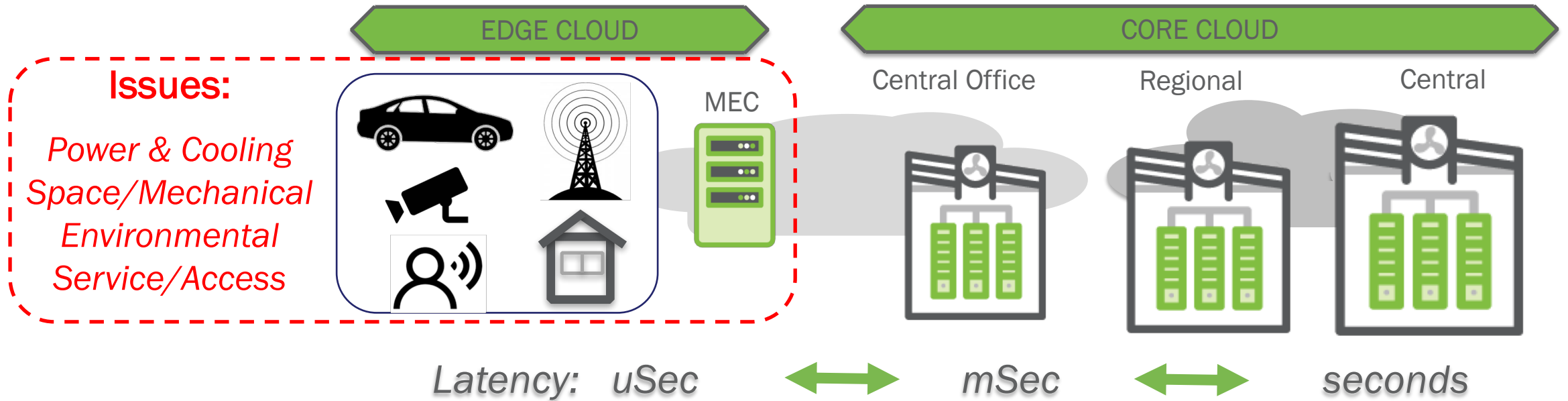
- Presented as a keynote in the March 18 summit
- This is work in progress on “ONL infrastructure” to support higher level software packages that already exists broadly in the open source community and run them on highly powered OCP networking HW.
- The demo showed all the software from these companies are running on ONL

Consume. Collaborate. Contribute.



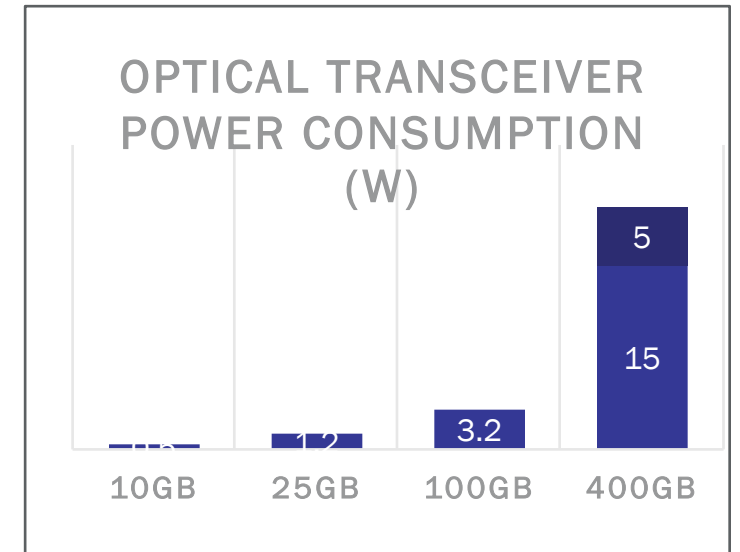
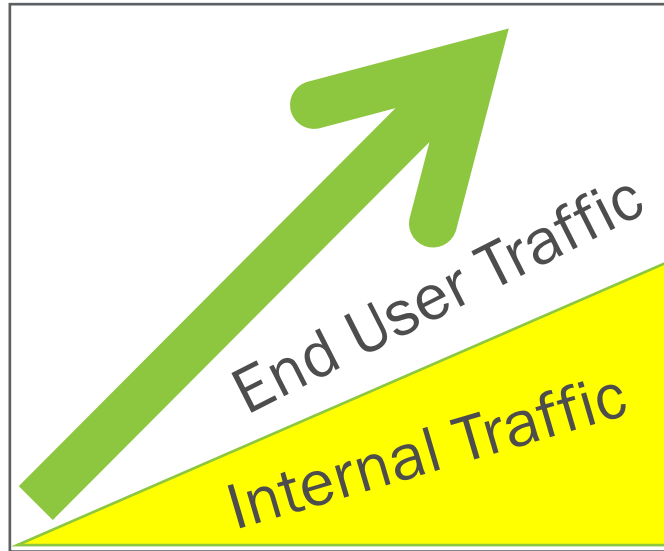
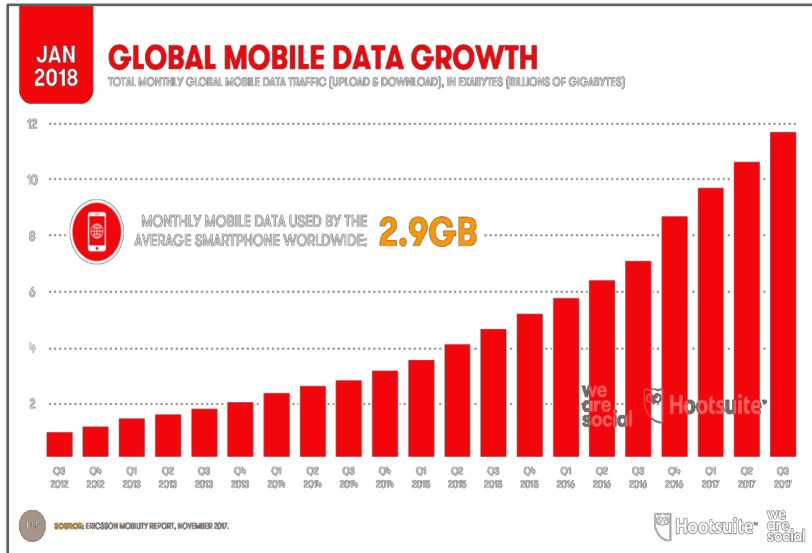
Challenges Ahead:

Living on the EDGE



Opportunity for the industry to harmonize HW & SW requirements , create multi-sourcing supply chain, and interoperable equipment at the EDGE.

Challenges Ahead: Optics & Energy Consumption



Can be Addressed through Collaboration

THANK YOU

