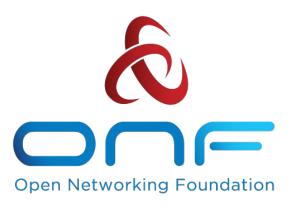


CORD - SEBA - Akraino

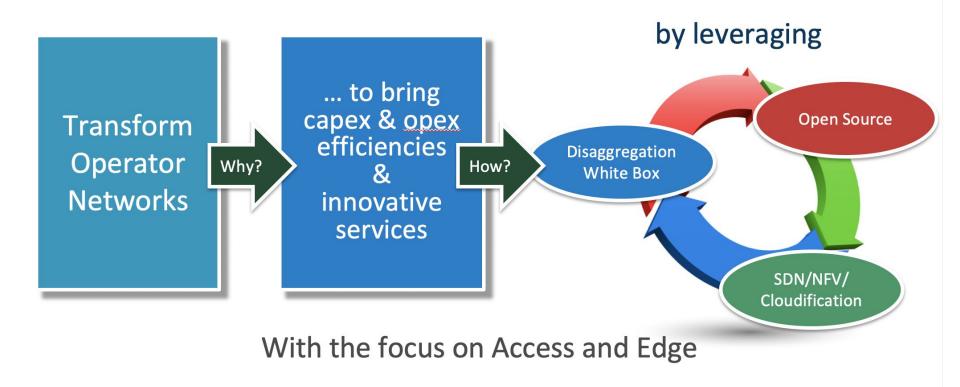
2020-03-03

Zack Williams (MTS, ONF)



ONF Intro

ONF's Operator Led Mission





ONF Unique Approach – Operator Led Curated Open Source

Operator prioritized use cases

- Operators first agree on common Use Cases to jointly pursue
- · Operators commit to deployment

Operator Partnerships 7+ Years Lab & Engineering Staff @ ONF

- "Small & mighty" independent engineering team
- Dedicated to the mission with no legacy to protect

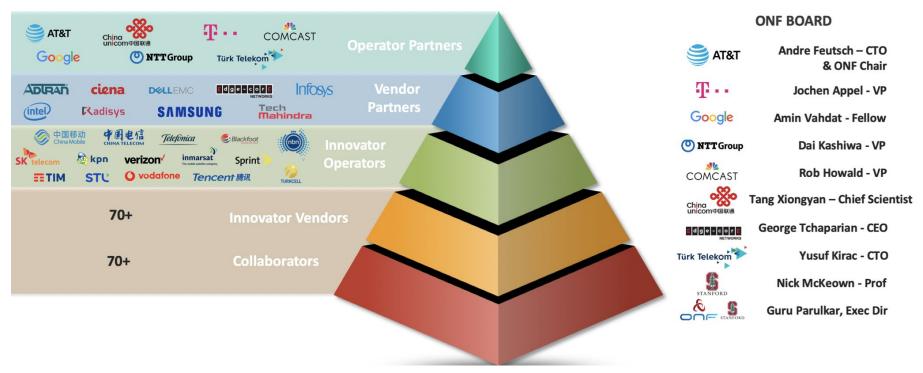
Keiretsu Ecosystem Develops

- Curated supply chain engages to embrace opportunity
- Well aligned vendors each contribute value to overall solution
- Operator commitment to deployment ensures ROI



ONF: Operator Led, Curated Open Source Community

Partners committed to disaggregation, open source and SDN/NFV/Cloudification







SEBA: SDN-Enabled Broadband Access with disaggregated OLT and BNG

SEBA Community









NETSIA

































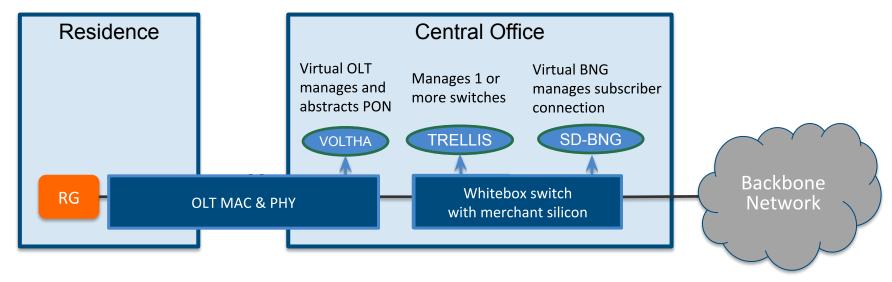


SEBA Exemplar (built on CORD platform)

SDN **E**nabled Mobile Enterprise Residential **B**roadband Services **Services** Services Access Mobile **NEM Network Edge Mediator** OSS mediation & FCAPS support for operationalization **SEBA** Leverages XOS project & toolchain Trellis **ONOS ORAN VOLTHA ODTN** Stratum Radio PON PON **ROADM** Shared Cloud Infrastructure OLTs OLTs Units (Core)



SEBA: SDN Enabled Broadband Access



RG – Residential Gateway

ONU - Optical Network Unit

PON - Passive Optical Network

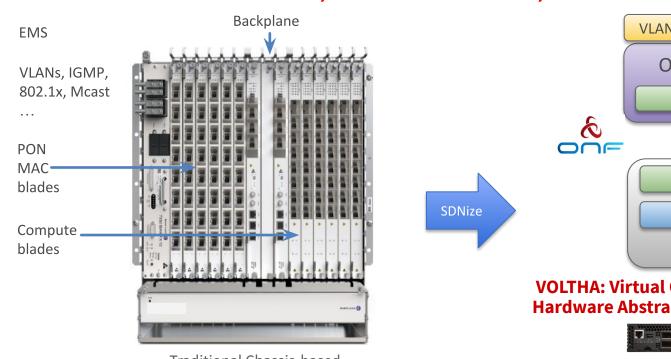
OLT – Optical Line Termination

BNG – Broadband Network Gateway

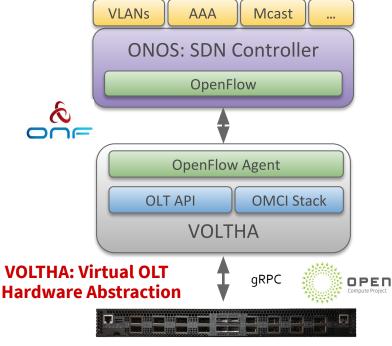


OLT disaggregation → VOLTHA

On path to production in 2020 at AT&T, Deutsche Telekom, Türk Telekom



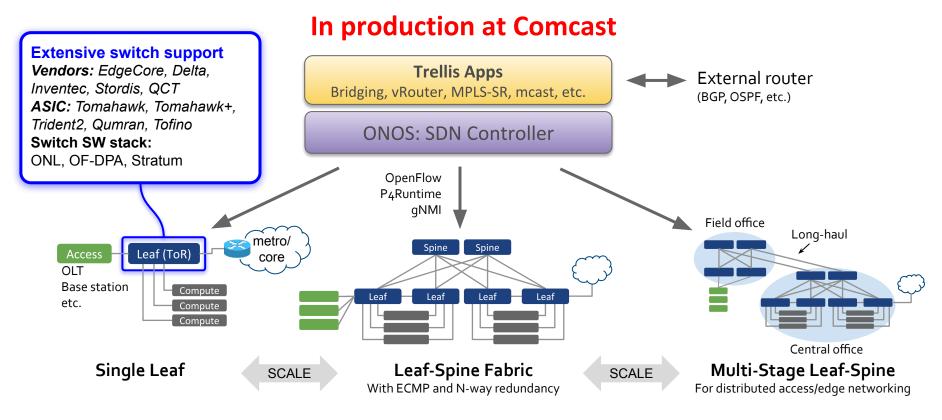
Traditional Chassis-based Vendor OLT for PONs (Passive Optical Networks)

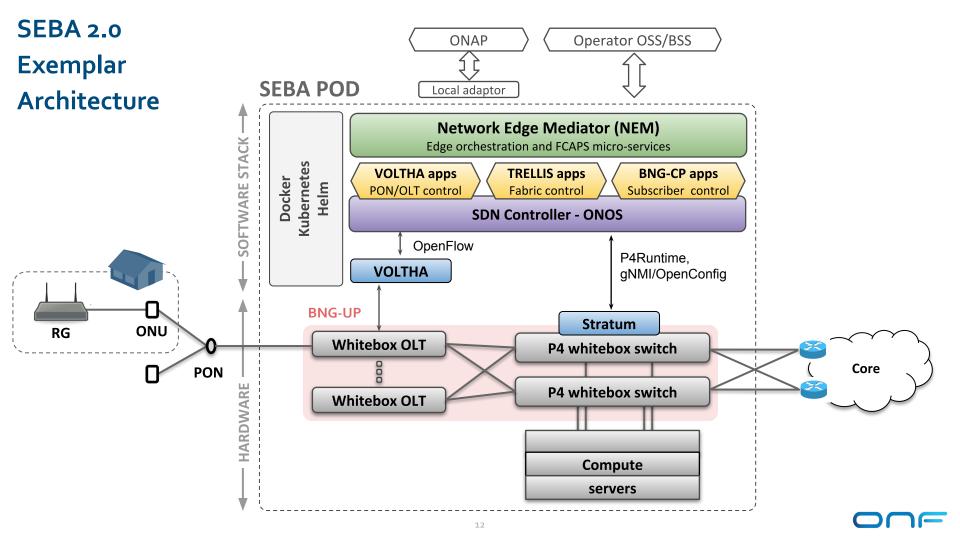


EdgeCore ASXvOLT16 (and others)

Fabric disaggregation → TRELLIS

Carrier-grade SDN fabric for edge/NFV applications
Based on whitebox switches and merchant silicon





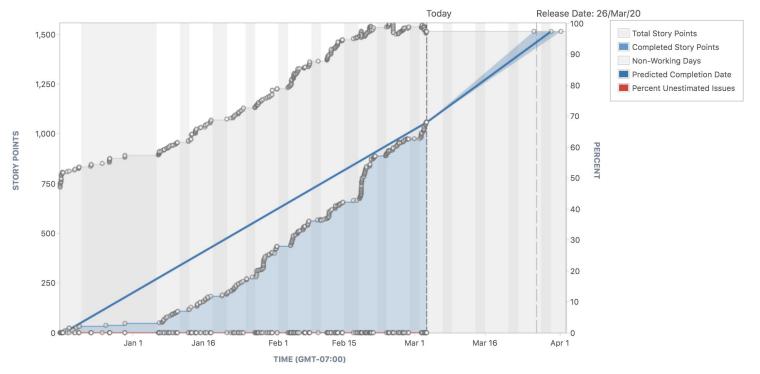
VOLTHA 2.3 release: March/April 2020

VOL: VOLTHA v2.3 ▼

Start Date: 17/Dec/19

Scheduled Release Date: 25/Mar/20

View VOLTHA v2.3 in Issue Navigator



Predicted completion date: 30/Mar/20 Optimistic completion date: 26/Mar/20 Pessimistic completion date: 01/Apr/20



SEBA Roadmap

SEBA 1.0

SEBA 2.0

SEBA 2.0 (Q2 2020)

Inventory

VOLTHA 1.7

(alpha1)

VOLTHA 2.3

Improved FCAPS

Subscriber

PON-level QoS

Dynamic Bandwidth Profiles (BAL 3.1)

management

Bandwidth Profiles

SD-BNG

PRODUCTION



Using ONF software in Akraino

- Keep up with our releases
 - ONFs first priorities are our Operator Partner deployments
 - Partners want the "Latest and Greatest", not old versions
- Help extend our projects
 - Working with ARM to port/integrate SEBA components
 - Development help is welcome, but needs to align with Operator Partner priorities

