



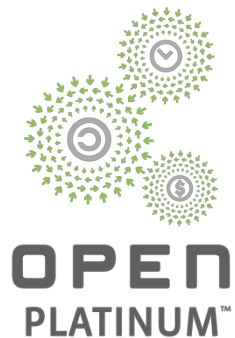
Open. Together.



OCP
SUMMIT

How ONF Builds on OCP Products for Telco/Cableco Broadband Access

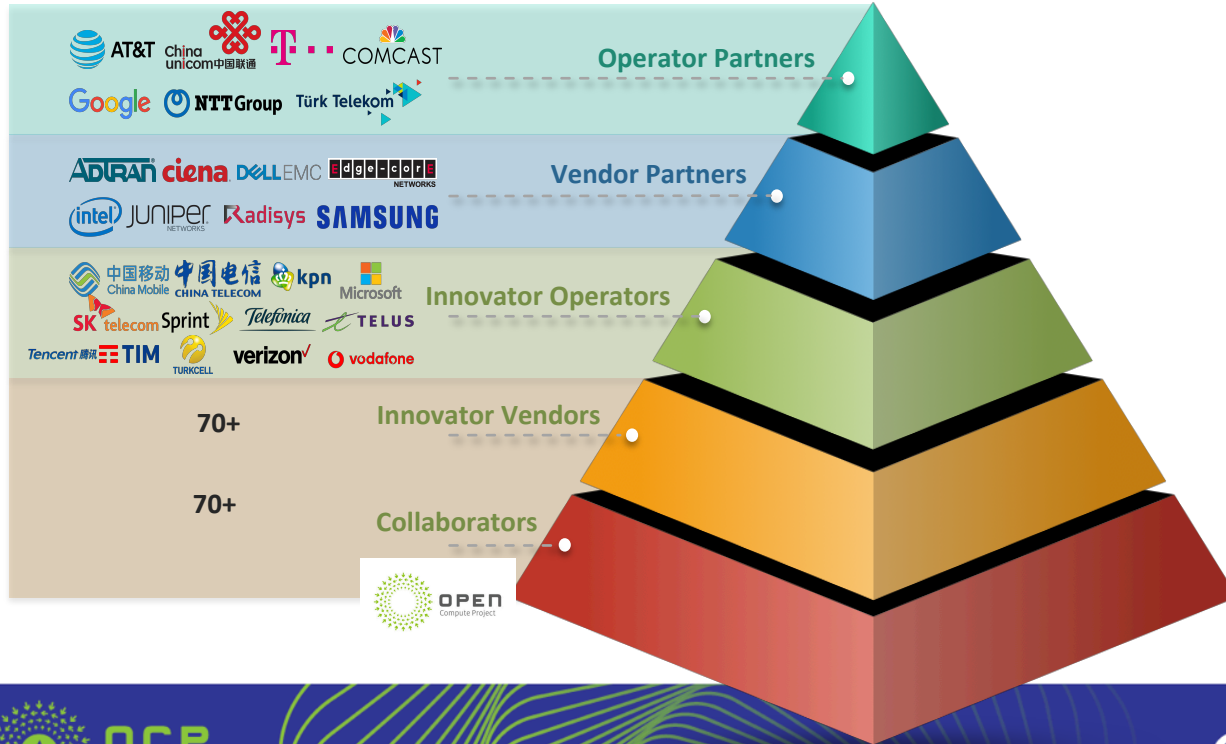
Saurav Das
VP of Engineering, ONF



The ONF Ecosystem

Vibrant Operator Led Consortium

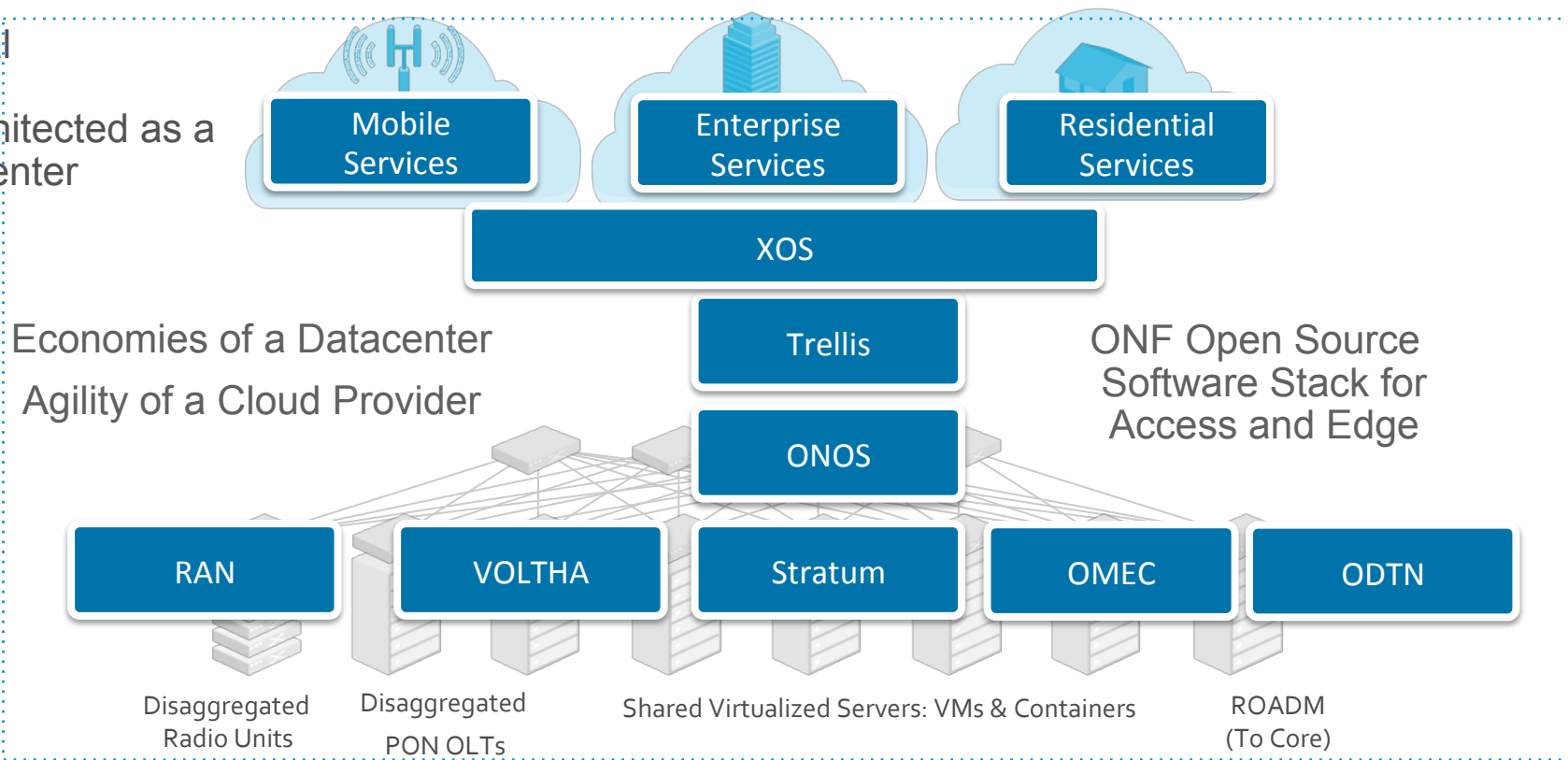
160+ Members Strong



www.opennetworking.org

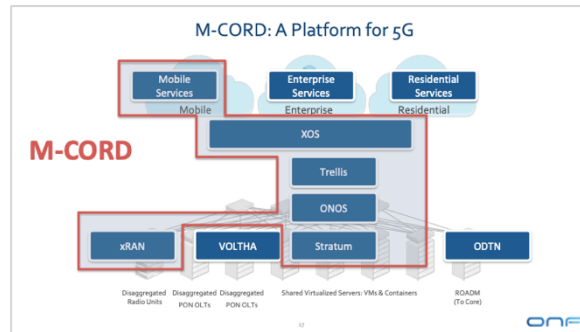
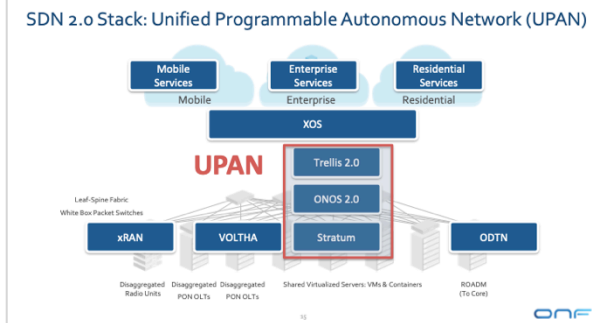
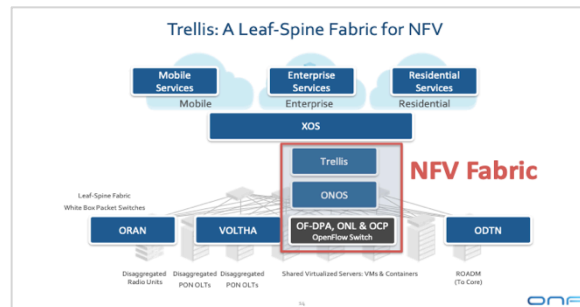
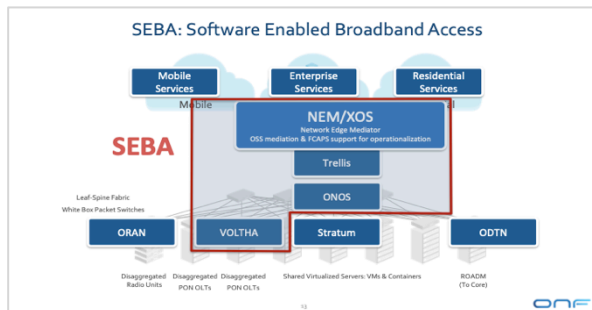
CORD

Central
Office
Rearchitected as a
Datacenter



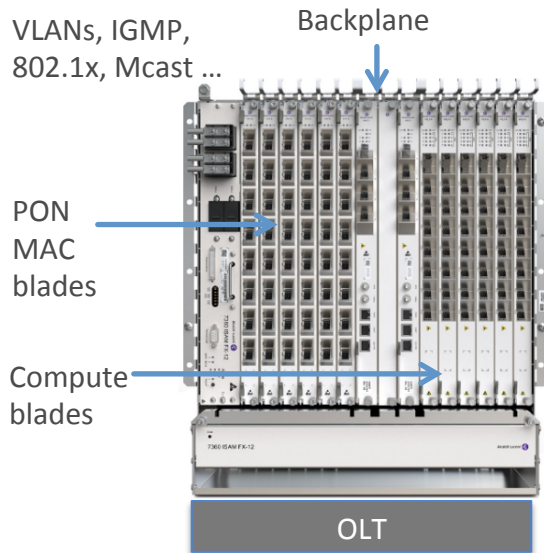
ONF Curated Solutions

ONF helps operators and supply-chain assemble these projects into Deployable Access and Edge Solutions

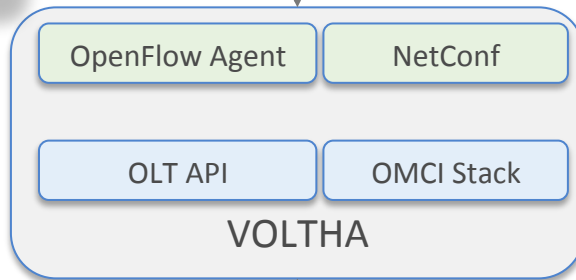
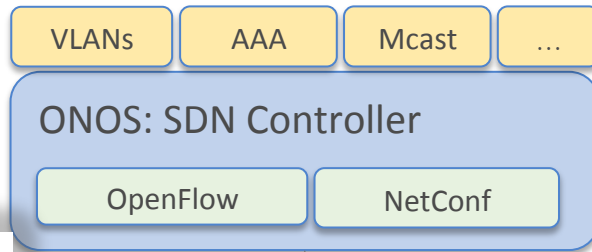
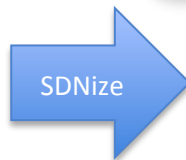


OLT Disaggregation

EMS



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



VOLTHA: Virtual OLT
Hardware Abstraction



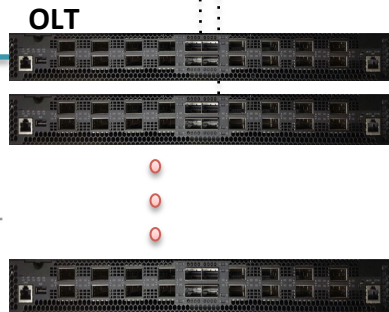
SEBA

SDN
Enabled
Broadband
Access



OPEN
ACCEPTED™

EdgeCore
ASFvOLT16



VOLTHA

Network Edge Mediator (NEM)

AAA | vlans | dhcp | mcast | bridging | routing | ACLs

SDN Controller - ONOS

Abstract OLT

ONAP

Op X OSS/BSS

SEBA POD

Docker
K8s
Helm

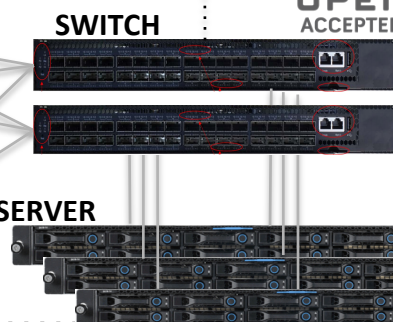
SWITCH



OPEN
ACCEPTED™

EdgeCore
7712

SERVER



External BNG



QuantaGrid
D51B-1U

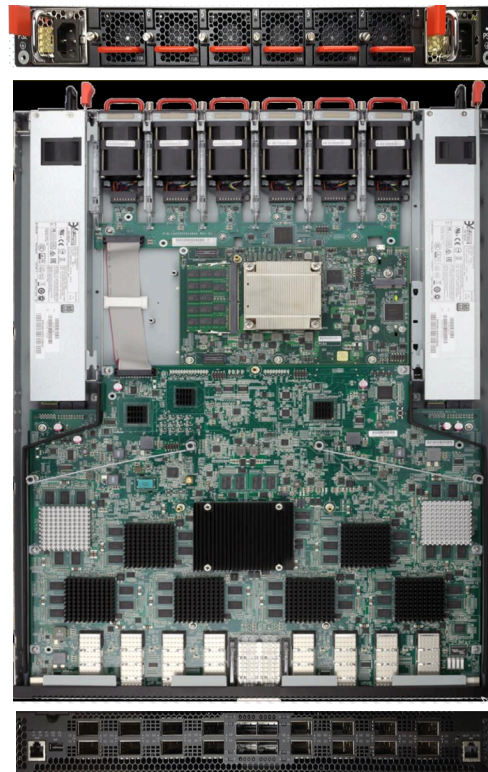
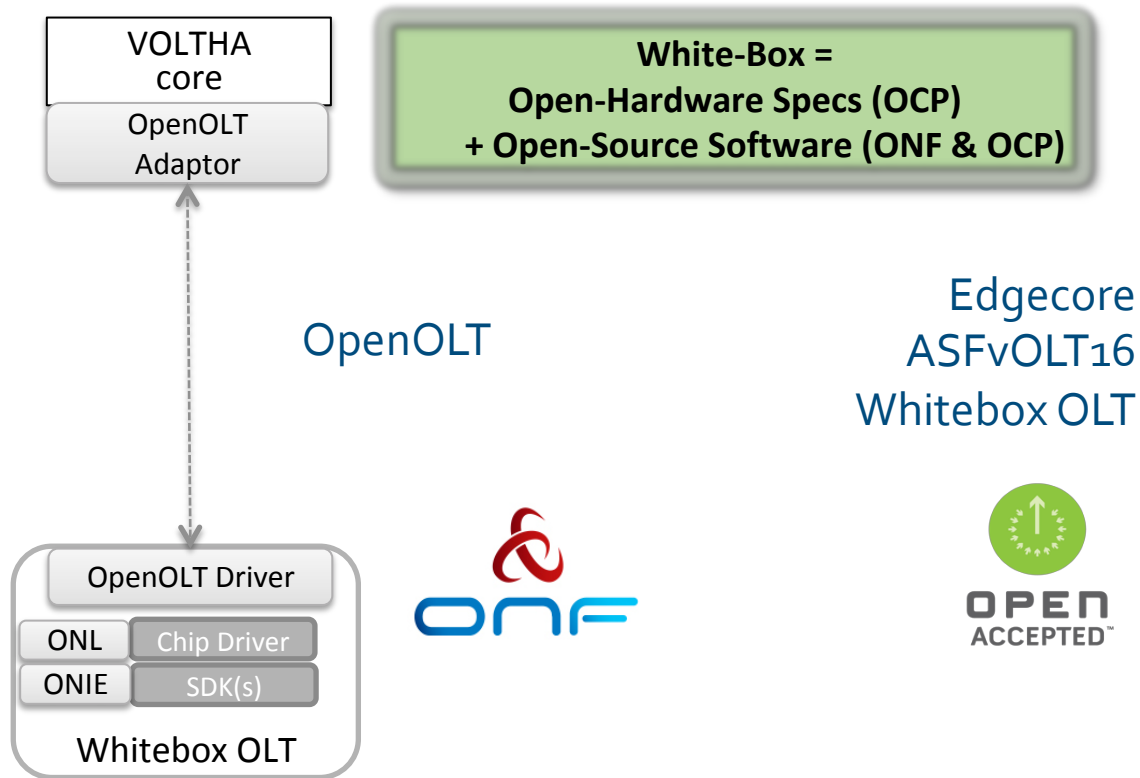


OPEN
INSPIRED™

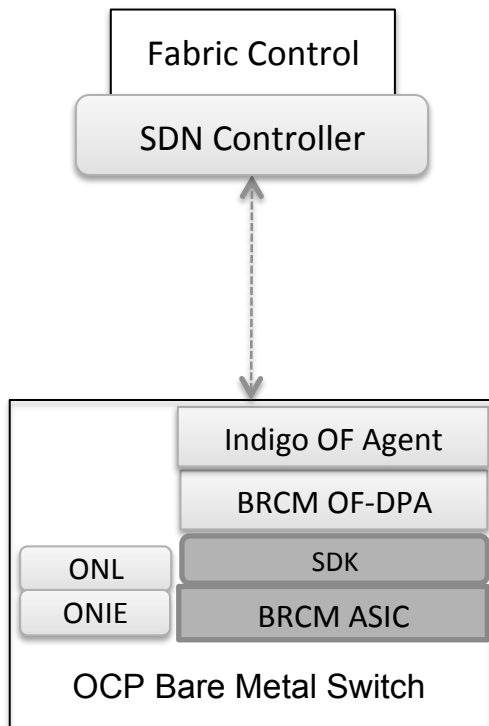


Open. Together.

White-Box XGS-PON OLT



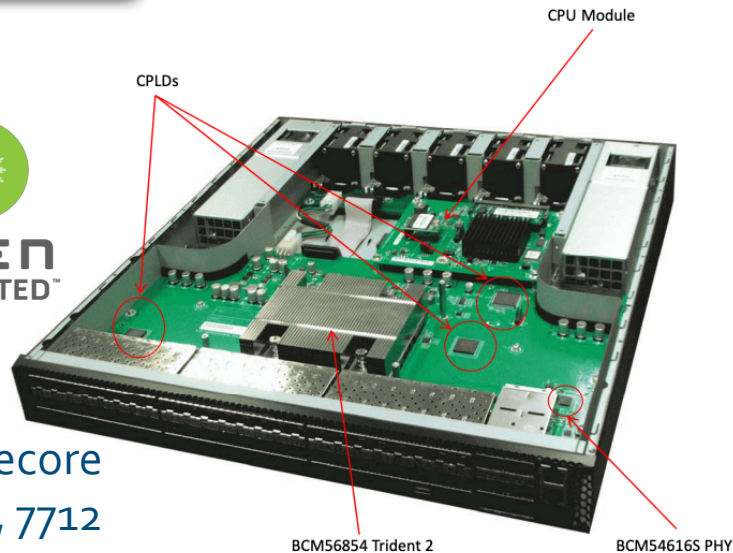
White-Box ToR Switching



White-Box =
Open-Hardware Specs (OCP)
+ Open-Source Software (ONF & OCP)

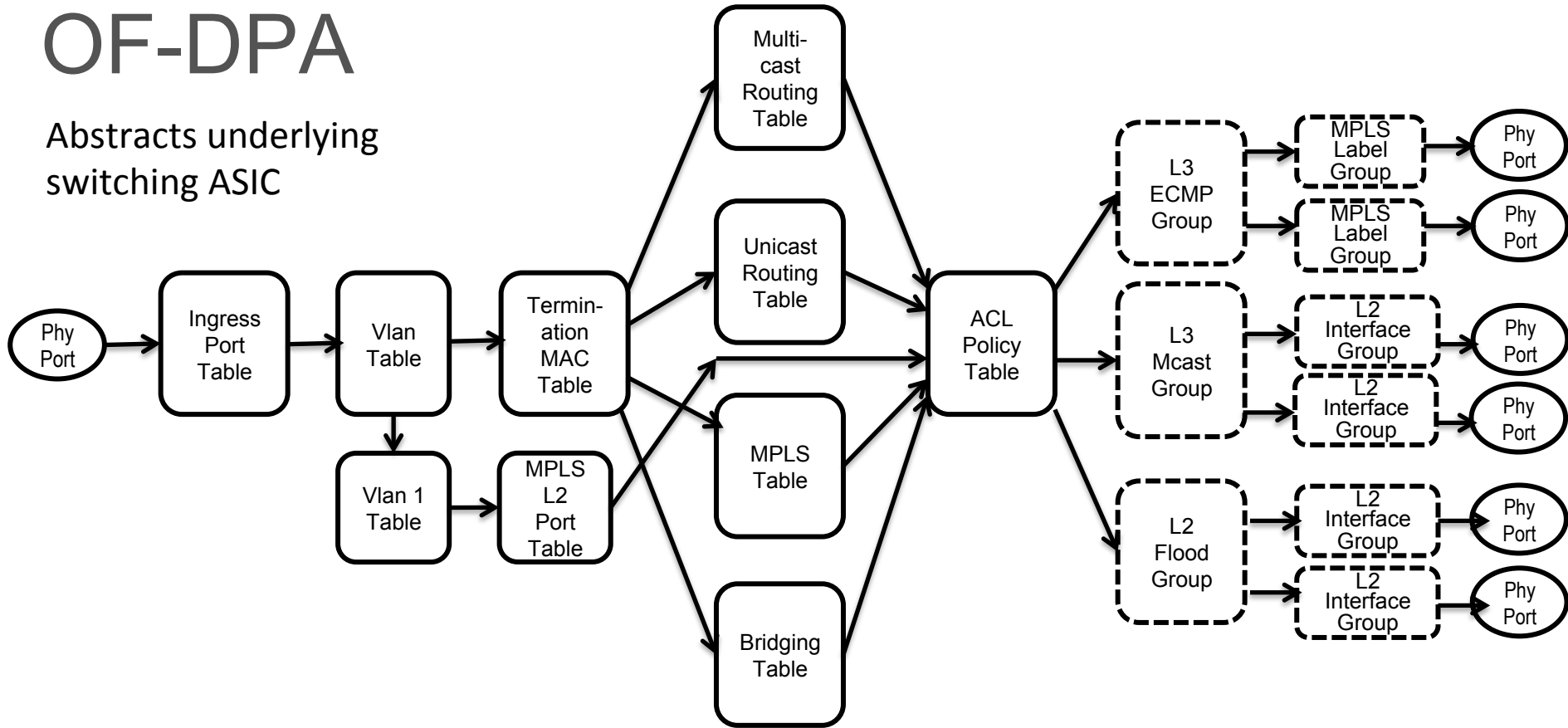


Edgecore
5712, 6712, 7712

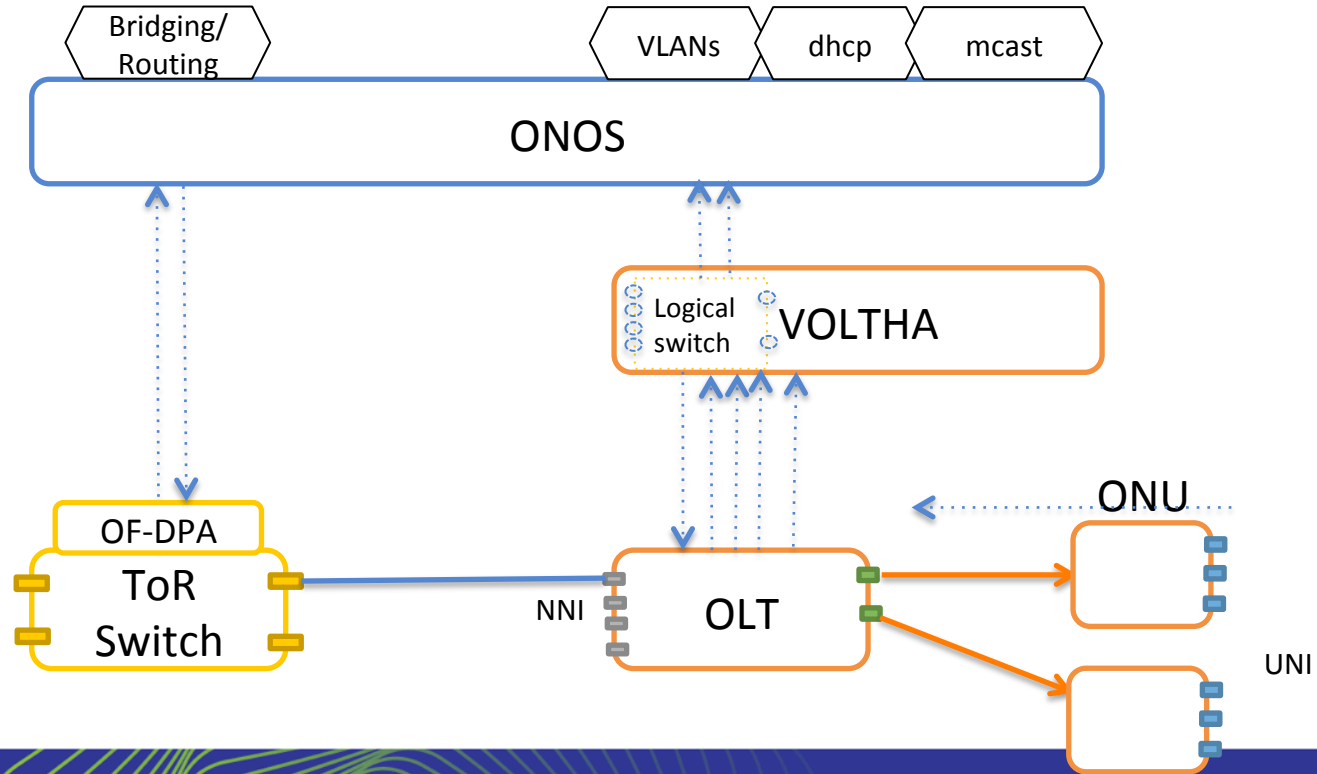


OF-DPA

Abstracts underlying
switching ASIC

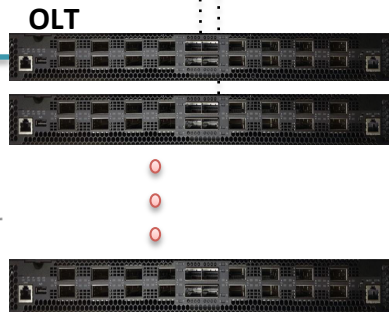


OLT+ToR Operation



SEBA

SDN
Enabled
Broadband
Access



VOLTHA

Network Edge Mediator (NEM)

AAA | vlans | dhcp | mcast | bridging | routing | ACLs

SDN Controller - ONOS

Abstract OLT

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SWITCH



OPEN
ACCEPTED™

SERVER



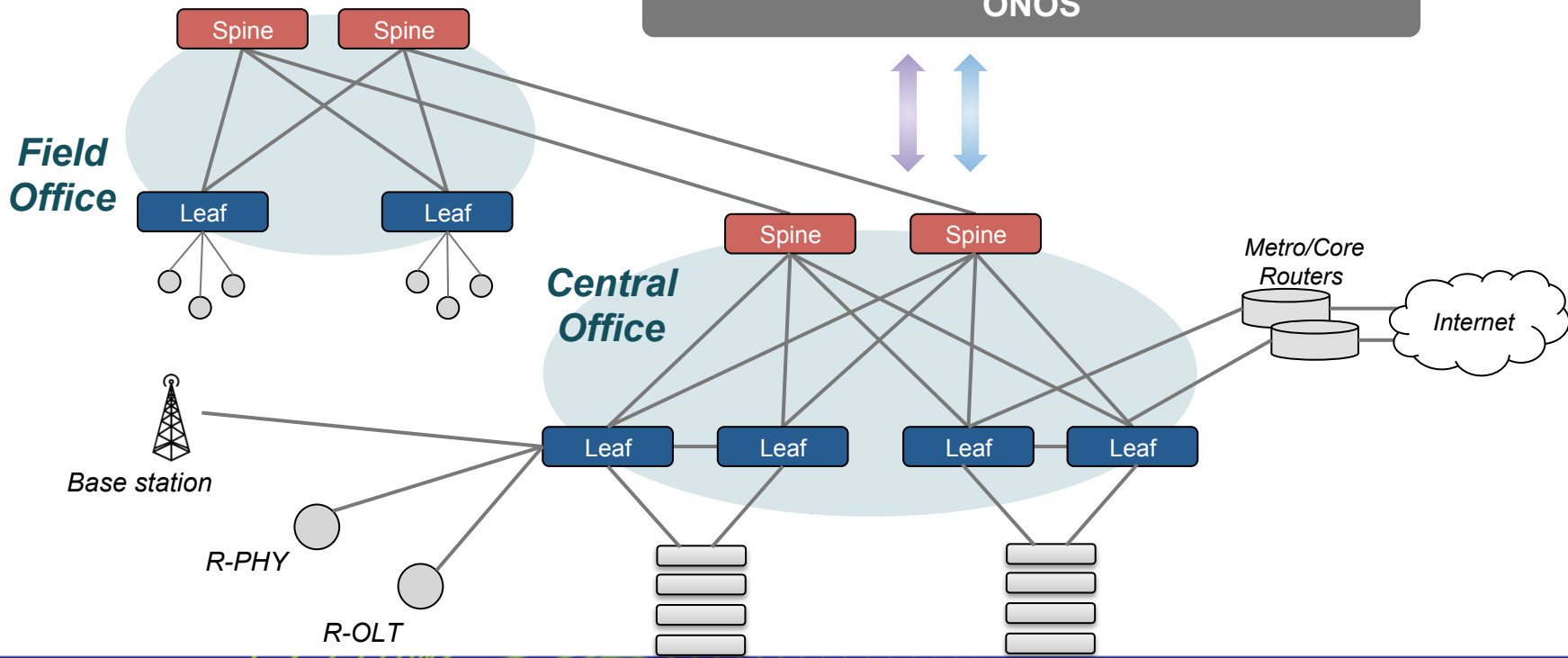
External BNG



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Trellis

Open-Source Leaf-Spine Fabric



How to get involved

SEBA

- Community: <https://wiki.opencord.org/display/cord/seba>
- Release: <https://guide.opencord.org/cord-6.1/>
- BOM: <https://guide.opencord.org/cord-6.1/prereqs/hardware.html>

VOLTHA

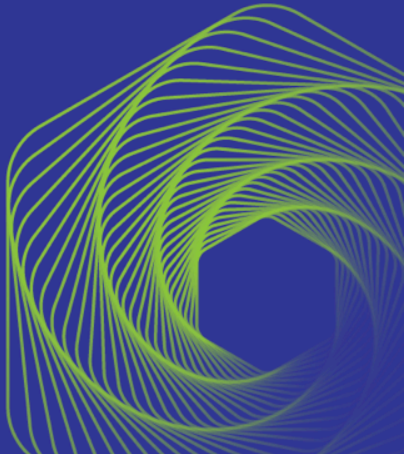
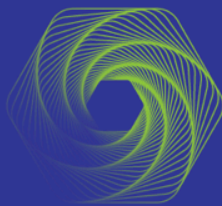
- Community: <https://wiki.opencord.org/display/cord/voltha>

Trellis

- Community: <https://wiki.opencord.org/display/CORD/Trellis%3A+CORD+Network+Infrastructure>

OCP Telco/OpenEdge

- Wiki: <https://www.opencompute.org/wiki/Telcos/openEDGE>
- Mailing list: <https://ocp-all.groups.io/g/OCP-Open-Edge>



Open. Together.

OCP Global Summit | March 14–15, 2019

