Open. Together.

OCP
GLOBAL
SUMMIT

Abdellah Tazi

Director Member of Technical Staff
AT&T

OCP GLOBAL SUMMIT

OCP Adoption in Telco Ecosystem

Abdellah Tazi, Director, AT&T
Christopher Winslow, SVP, Flex Cloud Solutions
Saurav Das, VP of Engineering, ONF

Open Access of Tomorrow

DISAGGREGATE
Software/Hardware
Control /Data Plane
Network Functions

OPEN
Open Hardware
Open Access Software
Open Interfaces/APIs

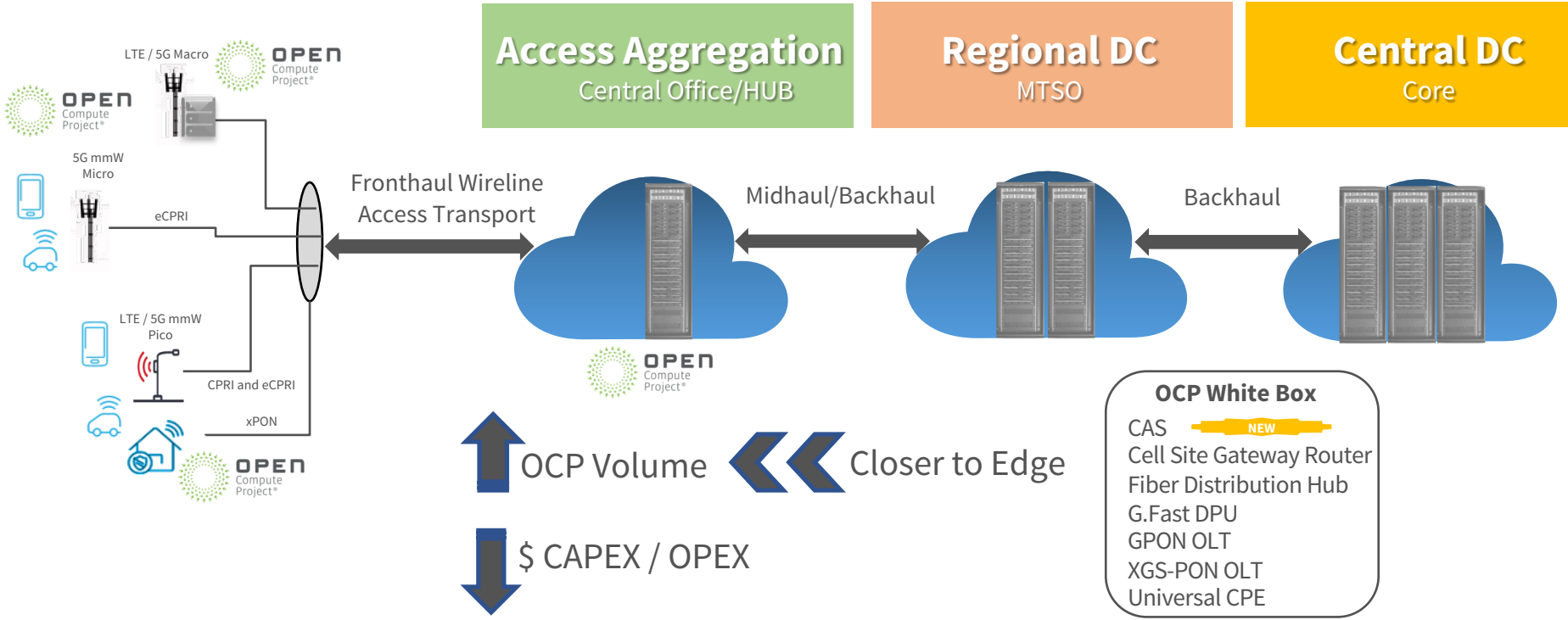
Access Technology
xPON, G.fast, xHaul

AUTOMATION
Zero Touch, SON, CI/CD
Analytics – AI, ML

Technology Standards
ITU-T, 3GPP, IEEE,
BBF, FSAN

Open Standards Community
AKRAINO, OCP, ONF, ORAN,
ONAP-Linux Foundation

What's Driving AT&T's Whitebox Strategy?



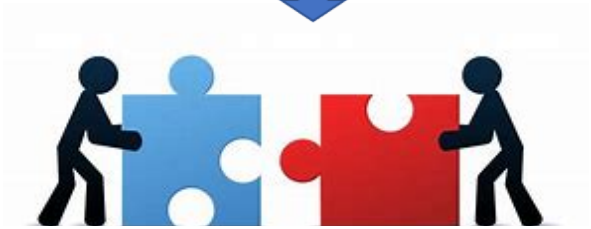
AT&T Transformation Journey

DISAGGREGATE

Software

ONF

OPEN Compute Project®



Closed Solution

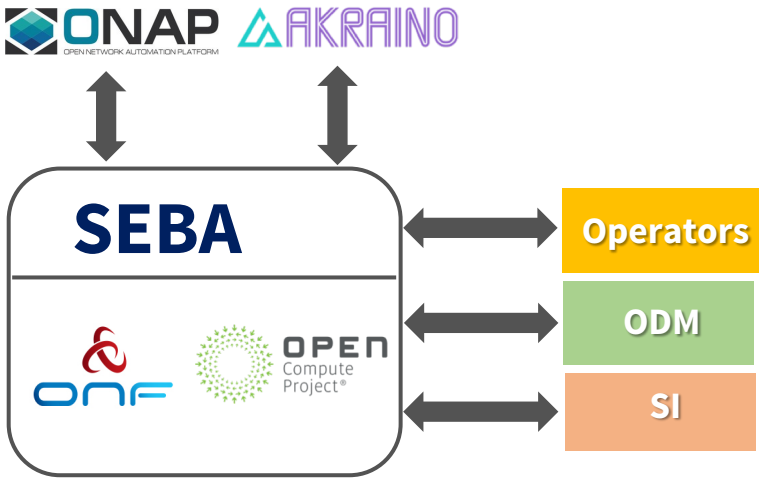
Rigid Model

Open Solution - Broadband Service

- Disaggregated PON OLT Solution
- OCP based PON OLT, ToR, Compute

Edge-corE NETWORKS

- Open Source Software - SEBA from ONF
- Orchestration and Management
- Community Collaboration



JOIN THE COMMUNITY!

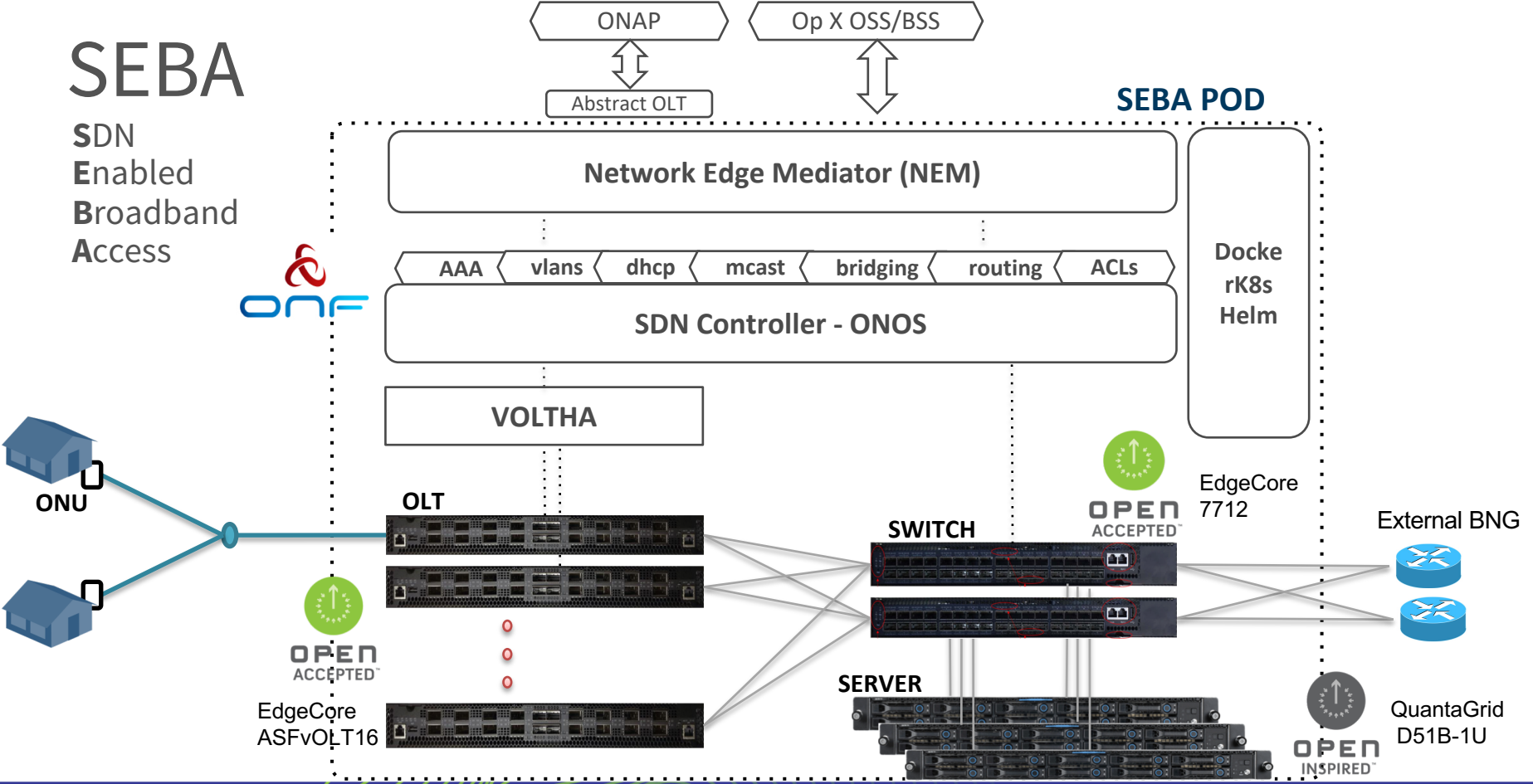
Saurav Das

Vice President of Engineering
Open Network Foundation

OCP GLOBAL SUMMIT

SEBA

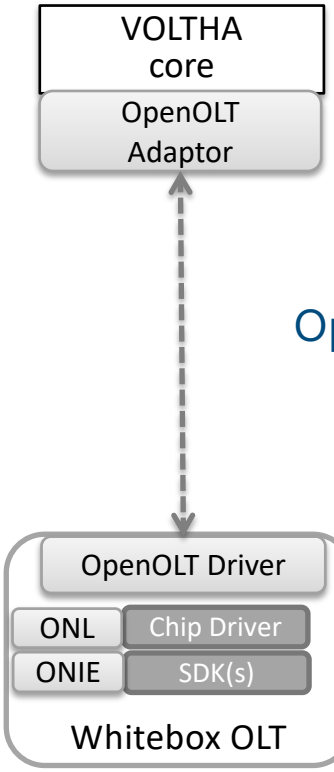
SDN
Enabled
Broadband
Access



SEBA: Open. Together.

AT&T

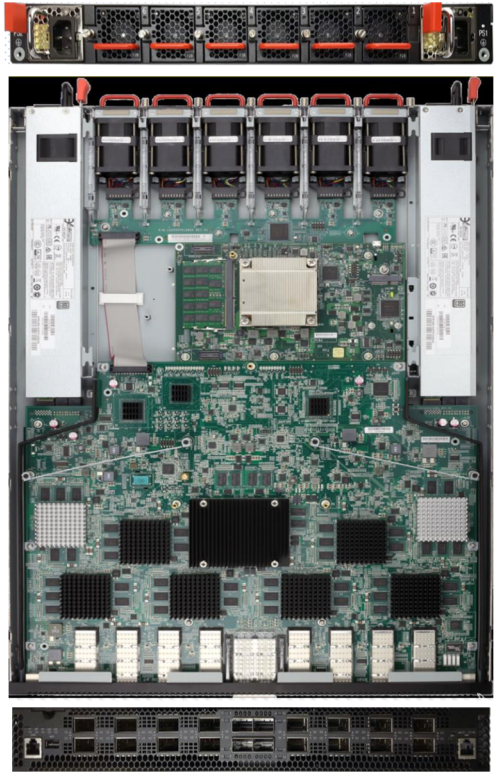
White-Box XGS-PON OLT



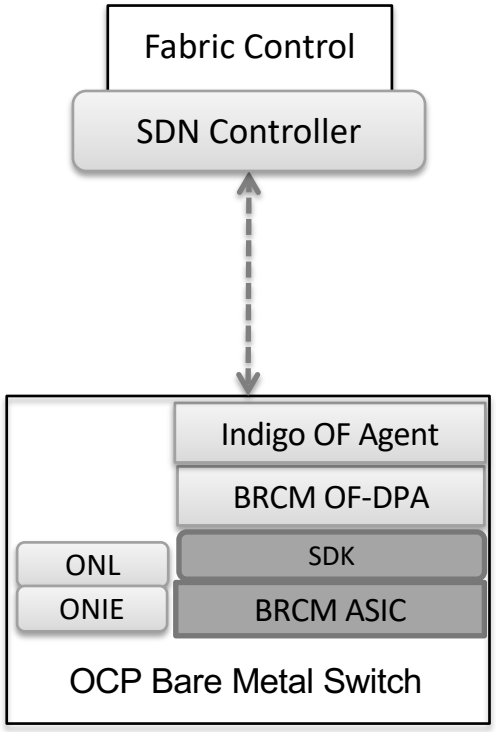
White-Box =
Open-Hardware Specs (OCP)
+ Open-Source Software (ONF & OCP)

OpenOLT

Edgecore
ASFvOLT16
Whitebox OLT



White-Box ToR Switching

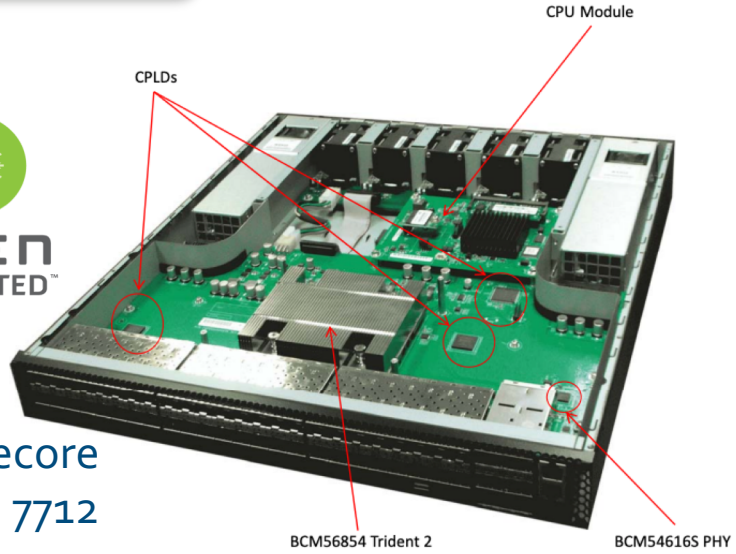


White-Box =
Open-Hardware Specs (OCP)
+ Open-Source Software (ONF & OCP)

ONF

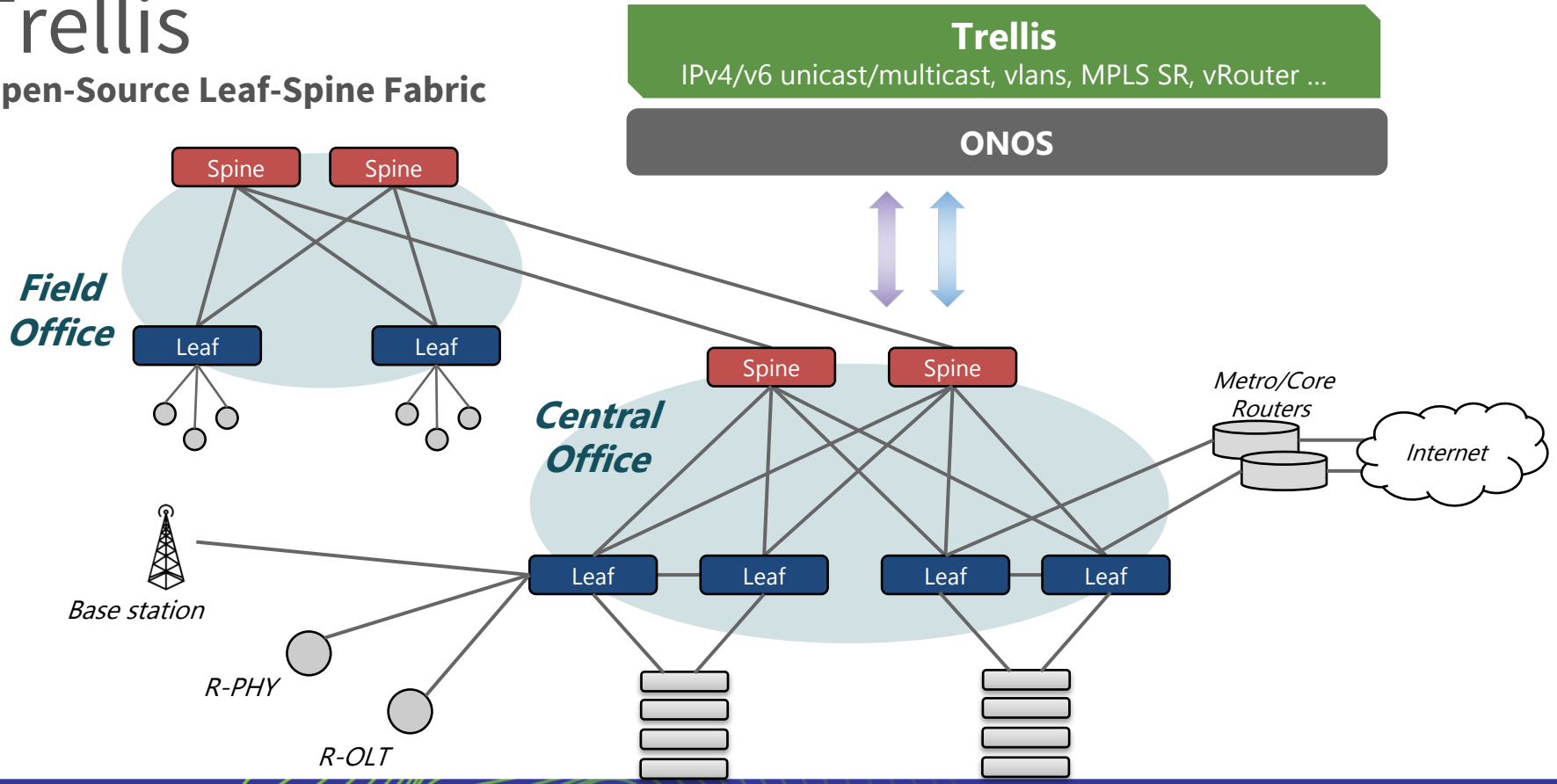
OPEN ACCEPTED™

Edgecore
5712, 6712, 7712



Trellis

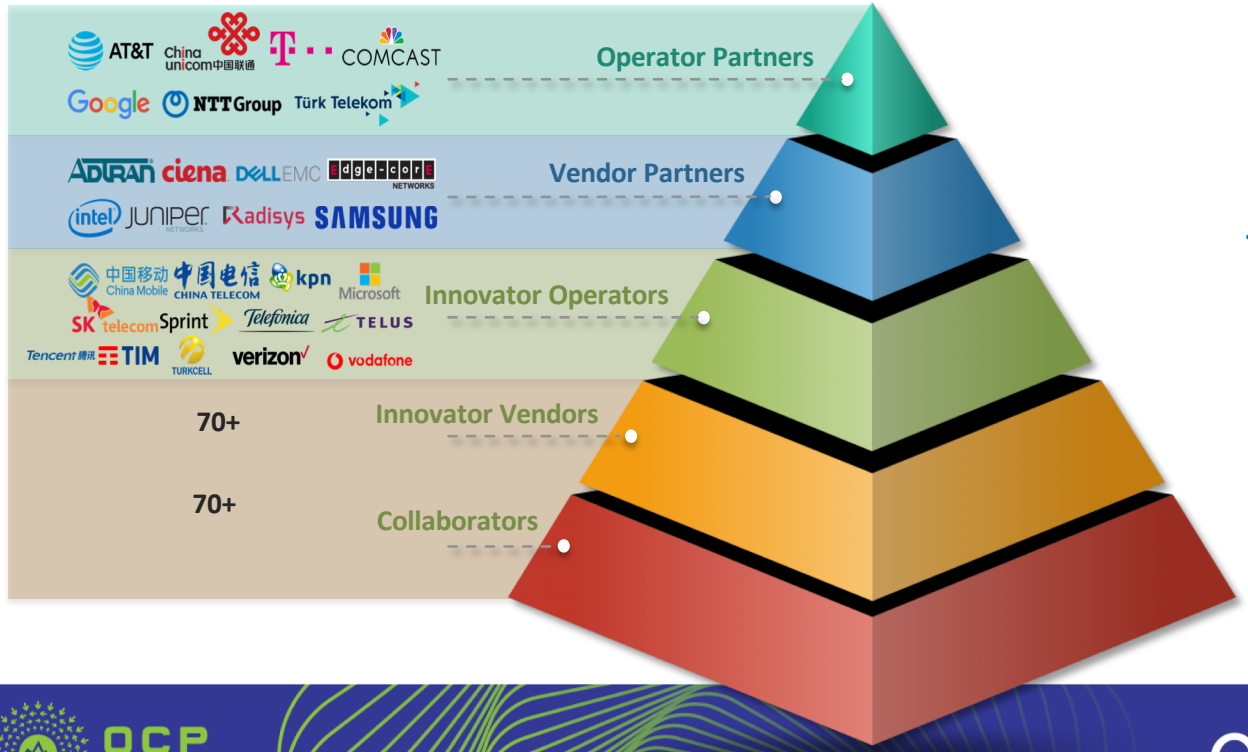
Open-Source Leaf-Spine Fabric



Trellis: Open. Together.

The ONF Ecosystem

Vibrant Operator Led Consortium 160+ Members Strong



www.opennetworking.org

CORD

SEBA	Trellis
VOLTHA	ONOS
XOS	Stratum
OMEC	COMAC
ODTN	P4

Chris Winslow

Senior Vice President & General Manager
Global Cloud & Data Center Business Unit, Flex

Across the Entire Network

Cellular
Microwave & RF
4G/4.5G Radio Modules
PTP Backhaul Units

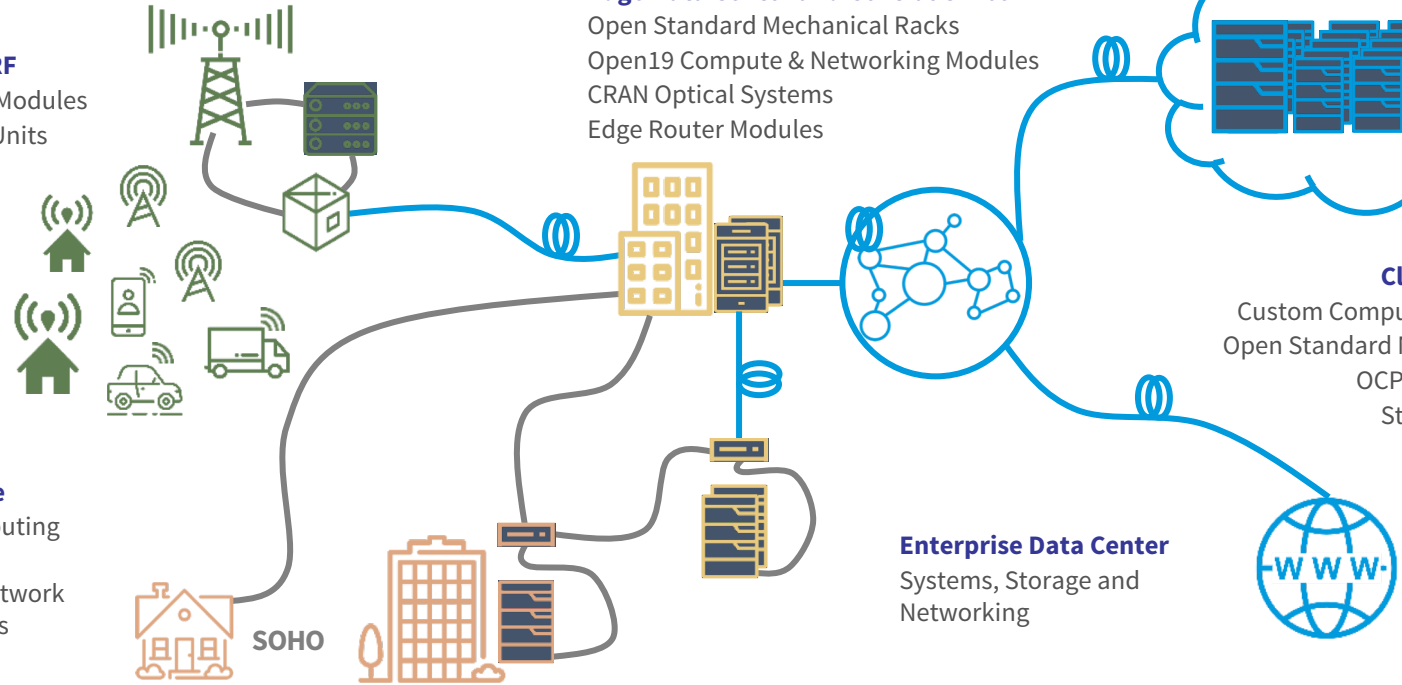
Edge Data Center and Central Office
Open Standard Mechanical Racks
Open19 Compute & Networking Modules
CRAN Optical Systems
Edge Router Modules

Cloud Data Center
Custom Compute Motherboards
Open Standard Mechanical Racks
OCP Storage Systems
Storage Appliances

Edge Compute
IoT Edge Computing Platforms
Automotive Network Switch Modules

Enterprise Data Center
Systems, Storage and Networking

SOHO



Open Ecosystem Initiatives

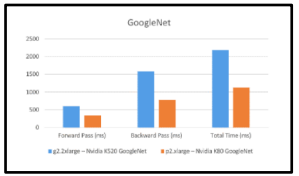
Build Open Hardware

Participate in open hardware foundations by contributing designs and providing spec feedback.

Validate Open Software Platforms

Collaborate with software consortium partnerships to test SDDC solutions driven by customer requirements.

Deliver Integrated Solutions



Combine HW / SW design experience with automated validation framework to deliver robust platform solutions.

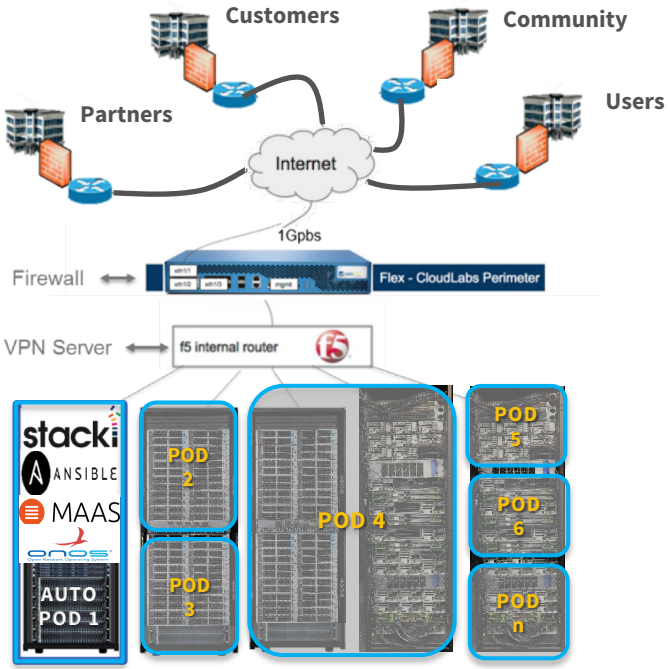
Open Standards Engagement Lab

Integration Requirements

- Multiple technology Partners
- Established worldwide supply chain
- Sketch-to-Scale technology enablement
- Distribution, service, repair, and reverse logistics

Validation Requirements

- Stack Validation
- Performance Testing
- Latency reduction
- No Vendor Lock-In
- New applications



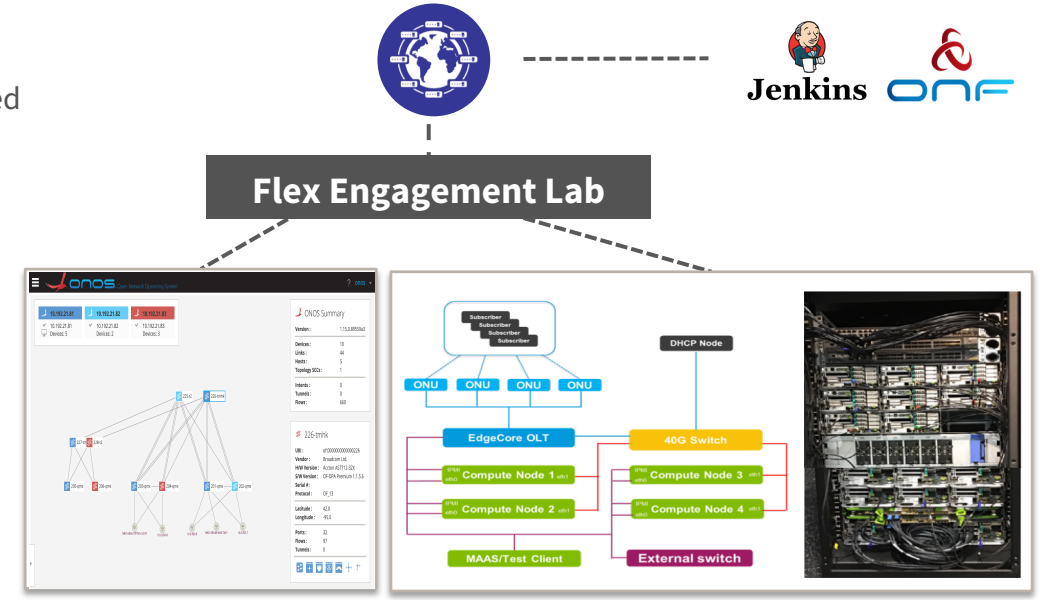
https://flexcloudlabs.com

ONF Reference Designs Validation on OCP Platforms

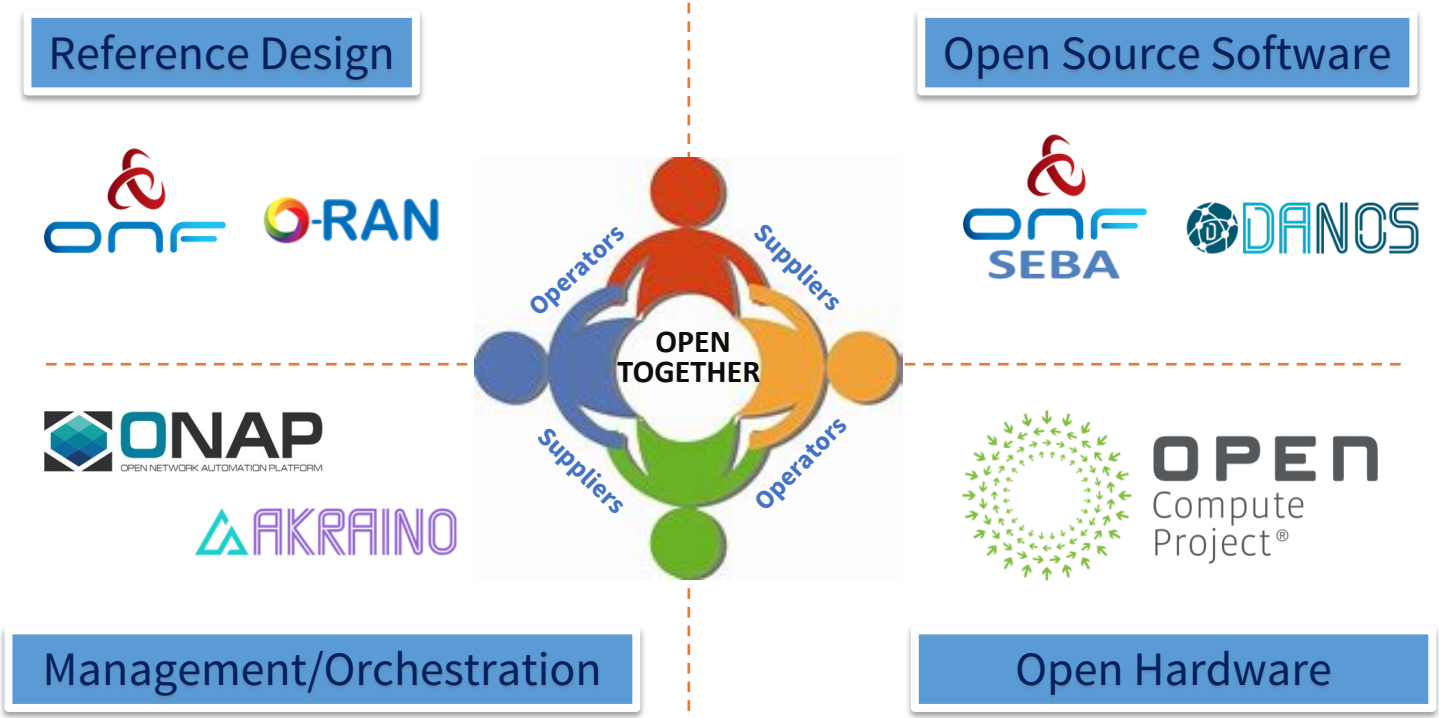
- Flex currently deploying multiple integrated stacks for telco use cases
- Running on multi-vendor OCP hardware
- Validating with partner tools & Flex FAST

For more details:
Friday @ 2pm in 212 CD

Telco & openEdge Validation of SEBA CORD
- Siddharth Gogar



Trellis open SDN platform

CORD SEBA POD on OCP

Open.Together - Foster Open Ecosystem