



OPEN SOURCE NETWORKING DAYS Singapore

ONF Reference Design and CORD 'Umbrella' Project

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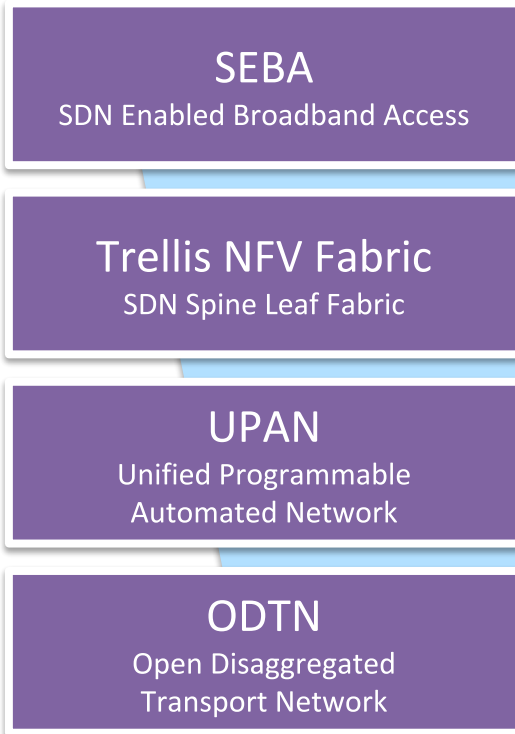


ONF Reference Designs



Active Operators*

Reference Designs



Trailblazing Projects & Emerging Reference Designs

**CORD (Central Office
Re-architected as a Datacenter)**



* These are the operators truly investing. Broader sets of operators are modestly investing & publicly support the work

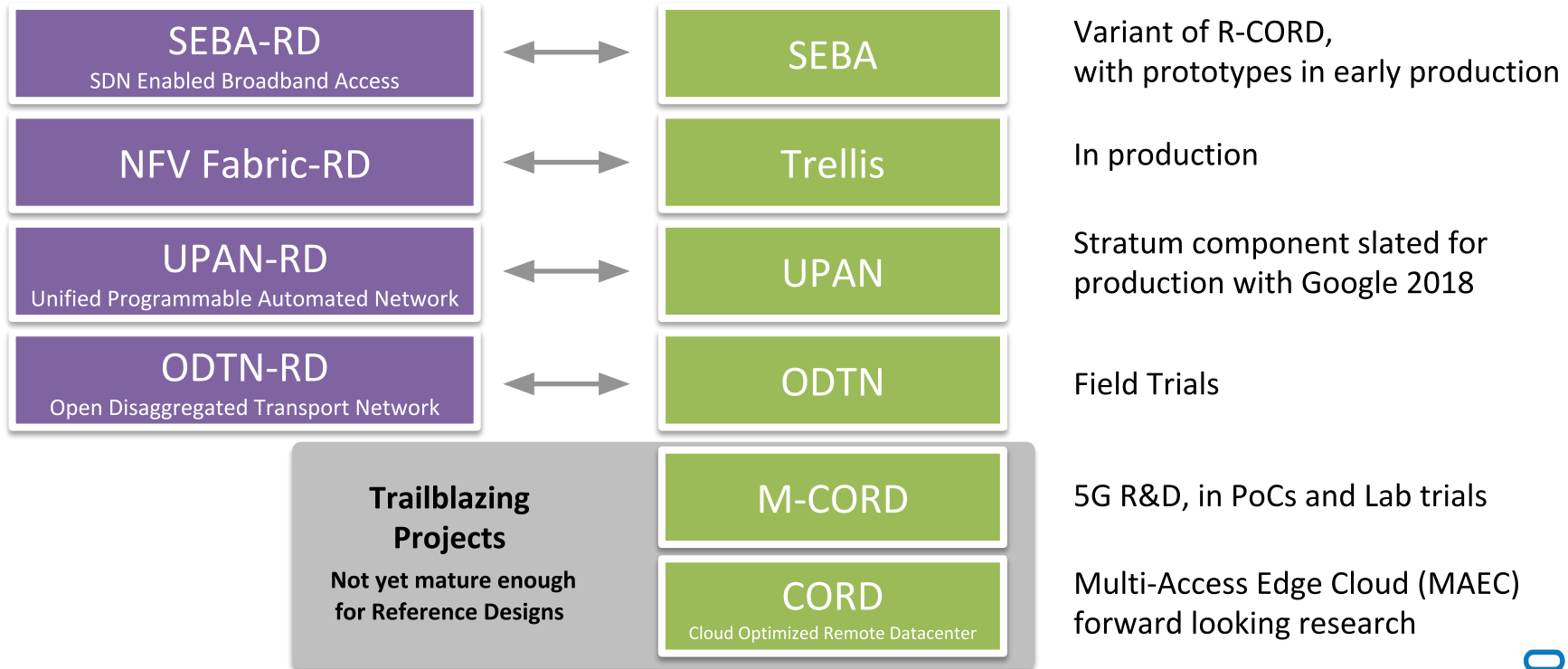
Reference Design to Exemplar Platforms



Exemplar Platforms are 'Swim Lanes' assembling platforms backed by operator demand

Reference Designs

Exemplar Platforms



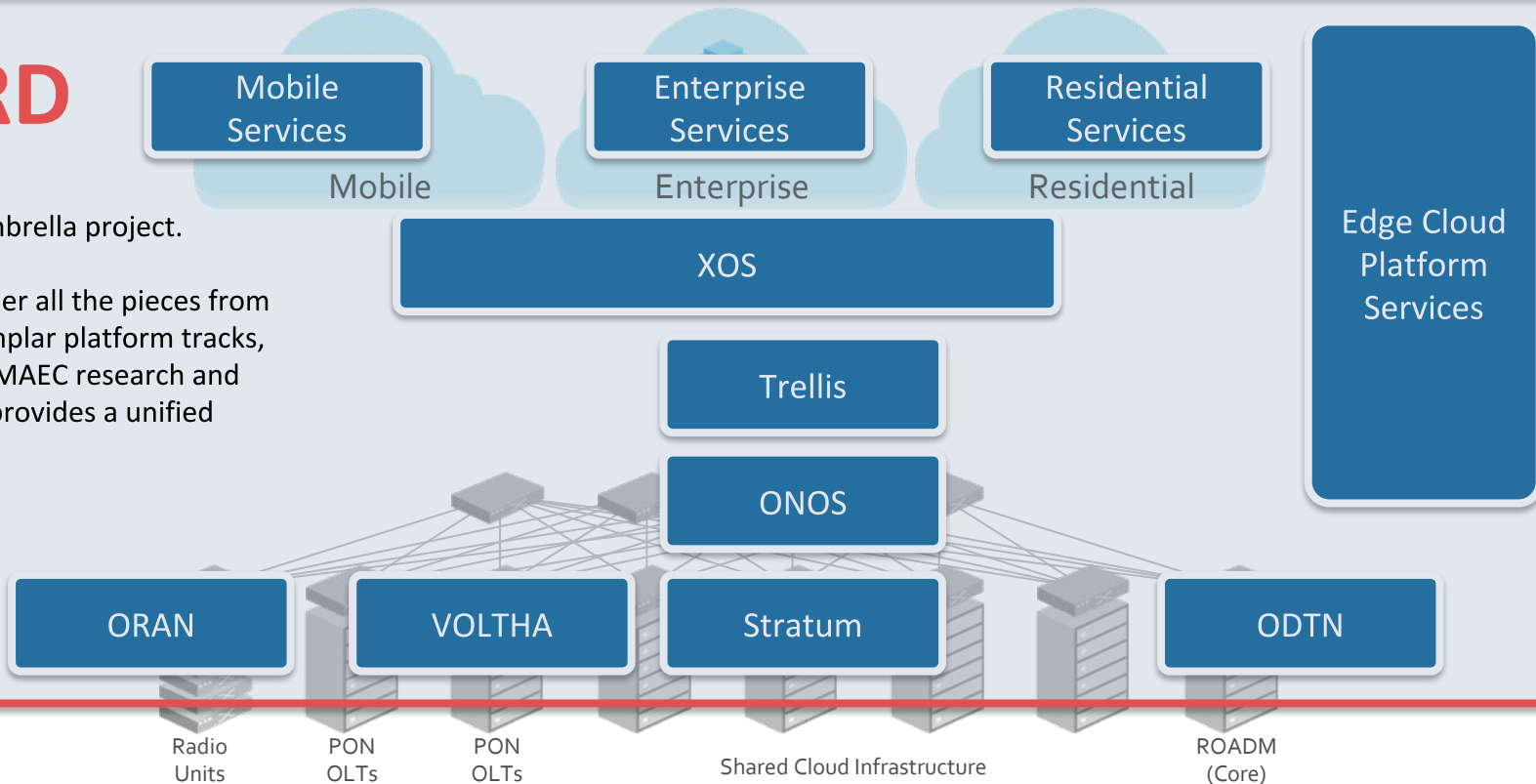
ONF Projects and Platforms



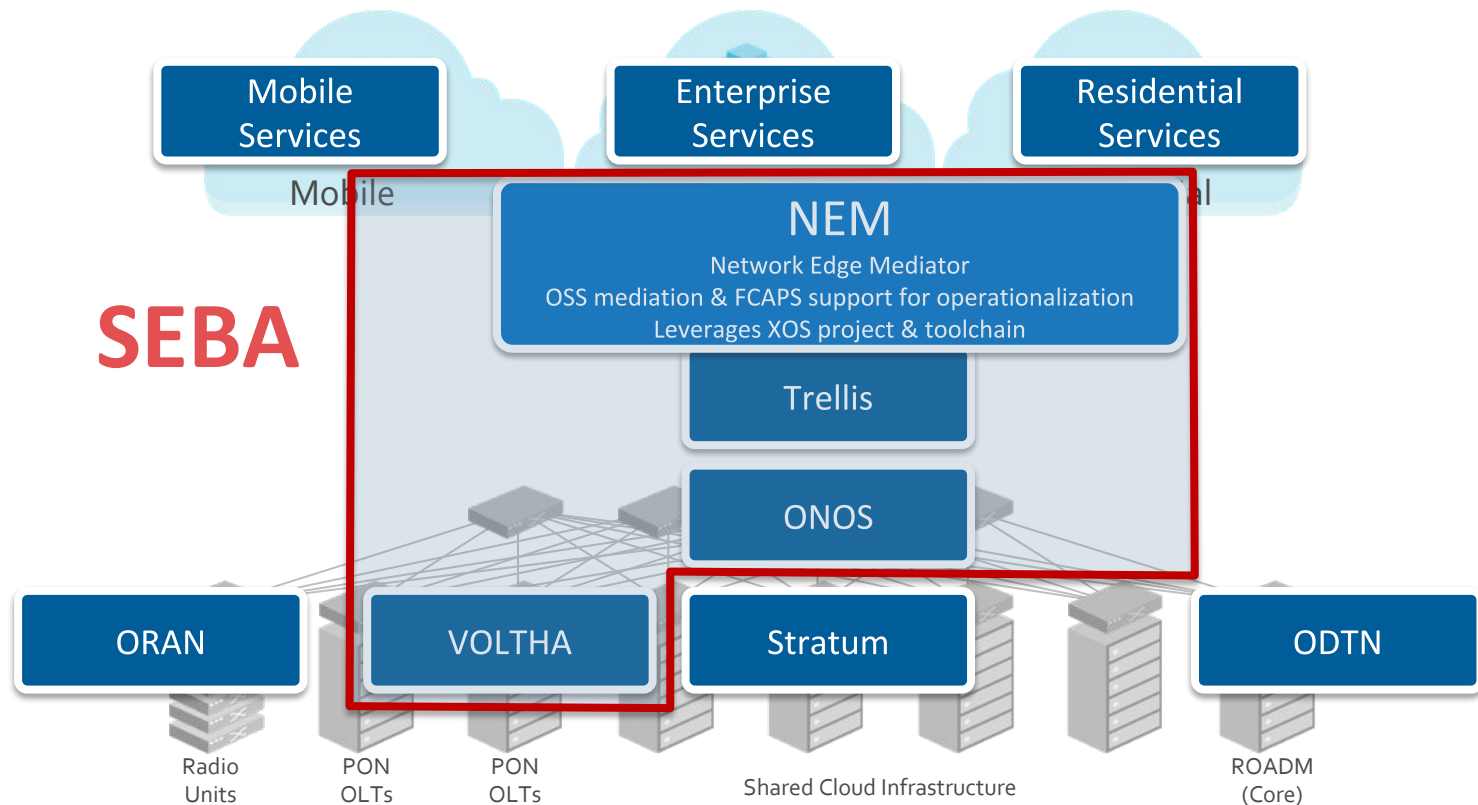
CORD

Unifying umbrella project.

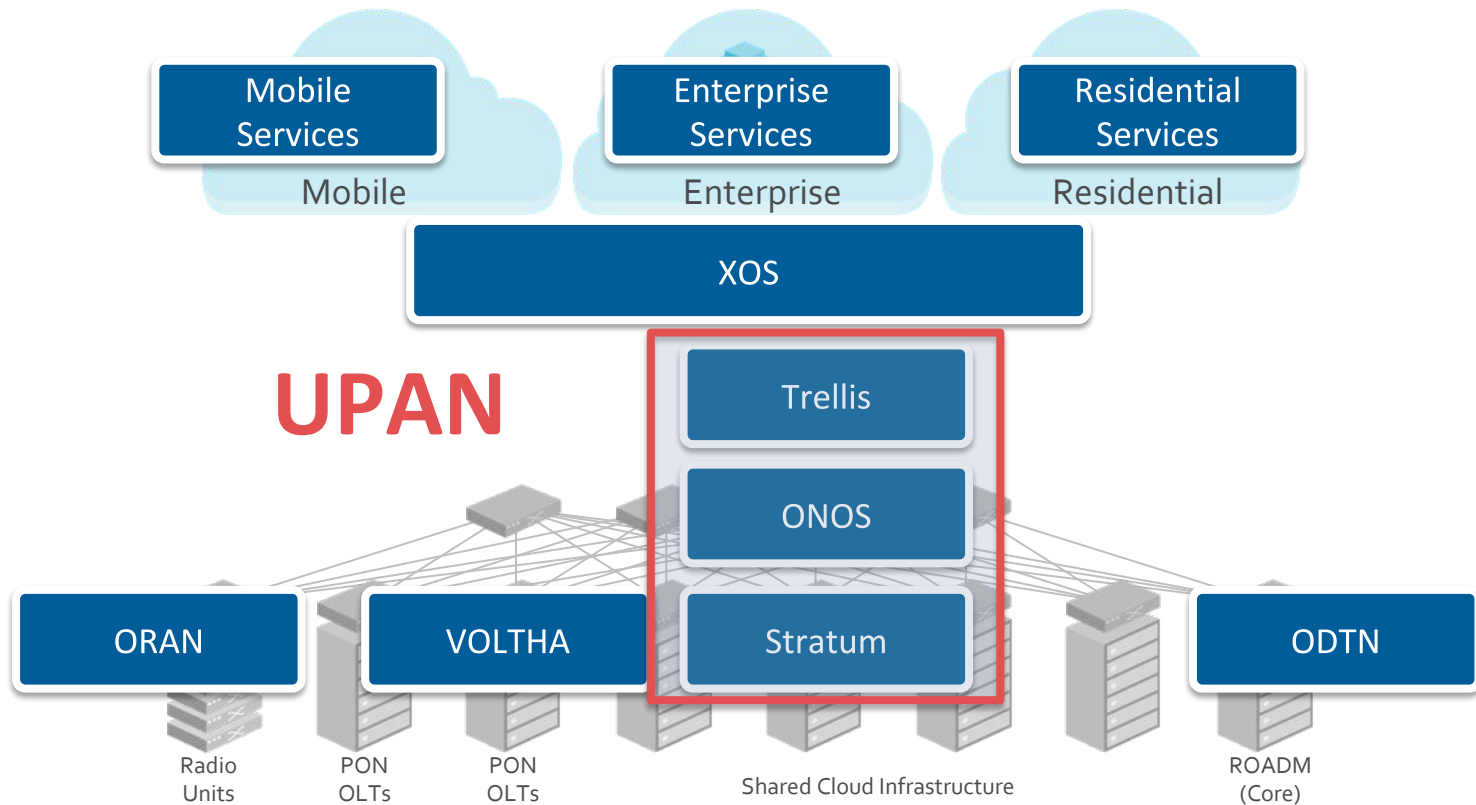
Pulls together all the pieces from all the exemplar platform tracks, vehicle for MAEC research and ultimately provides a unified whole.



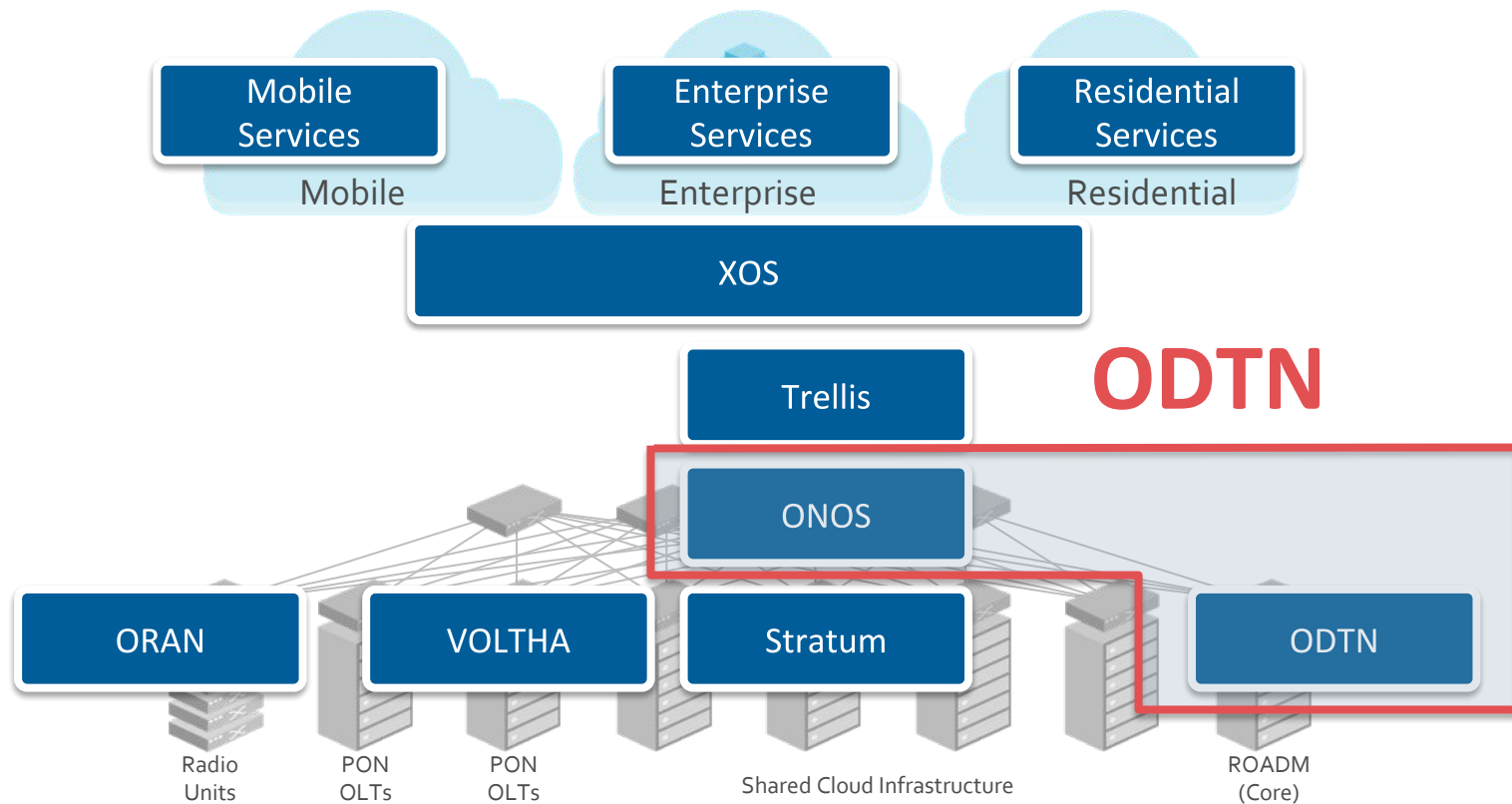
SEBA Exemplar Platform (variant of R-CORD)



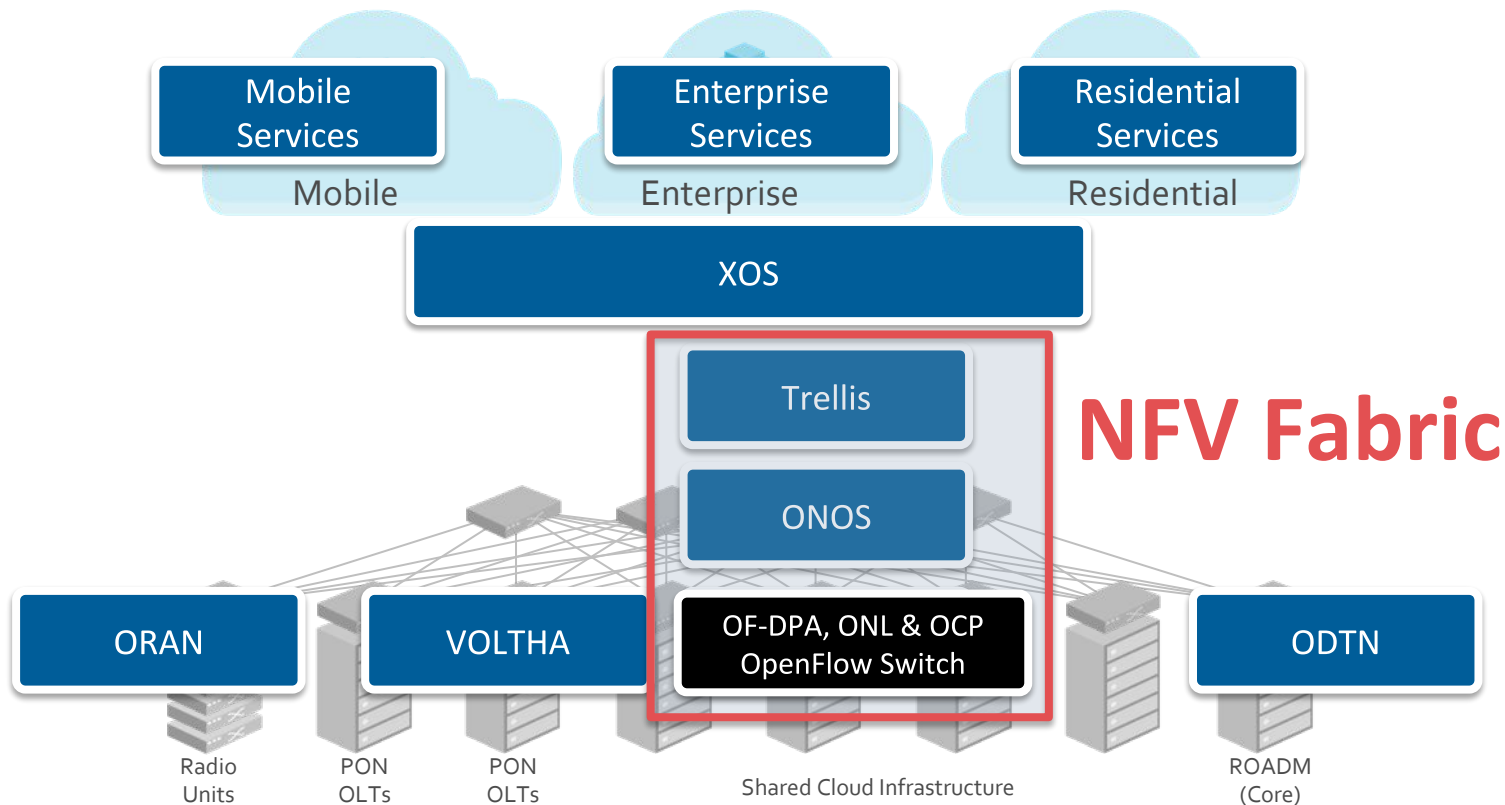
UPAN Exemplar Platform



ODTN Exemplar Platform



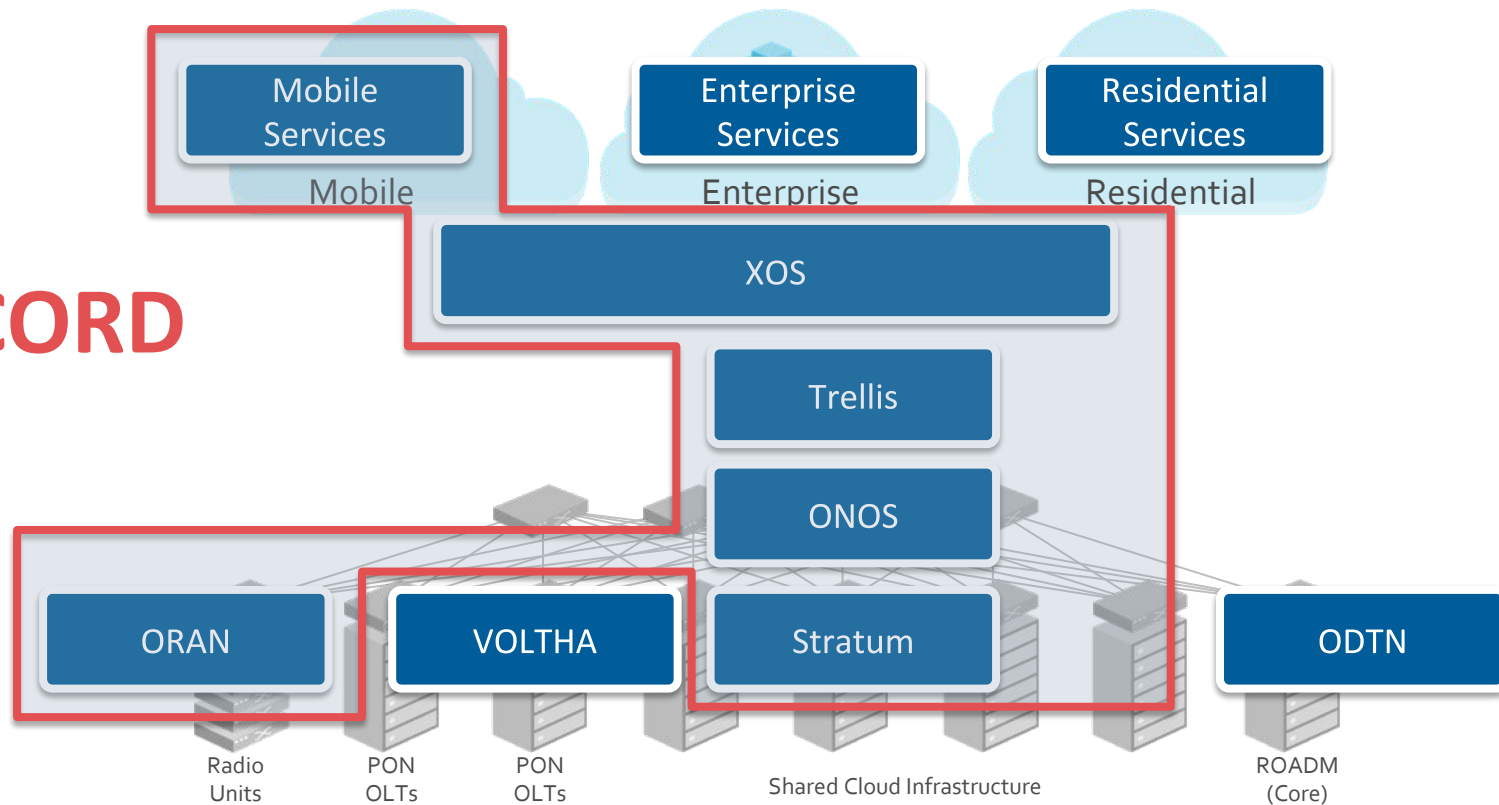
Trellis Exemplar Platform



M-CORD Platform



M-CORD

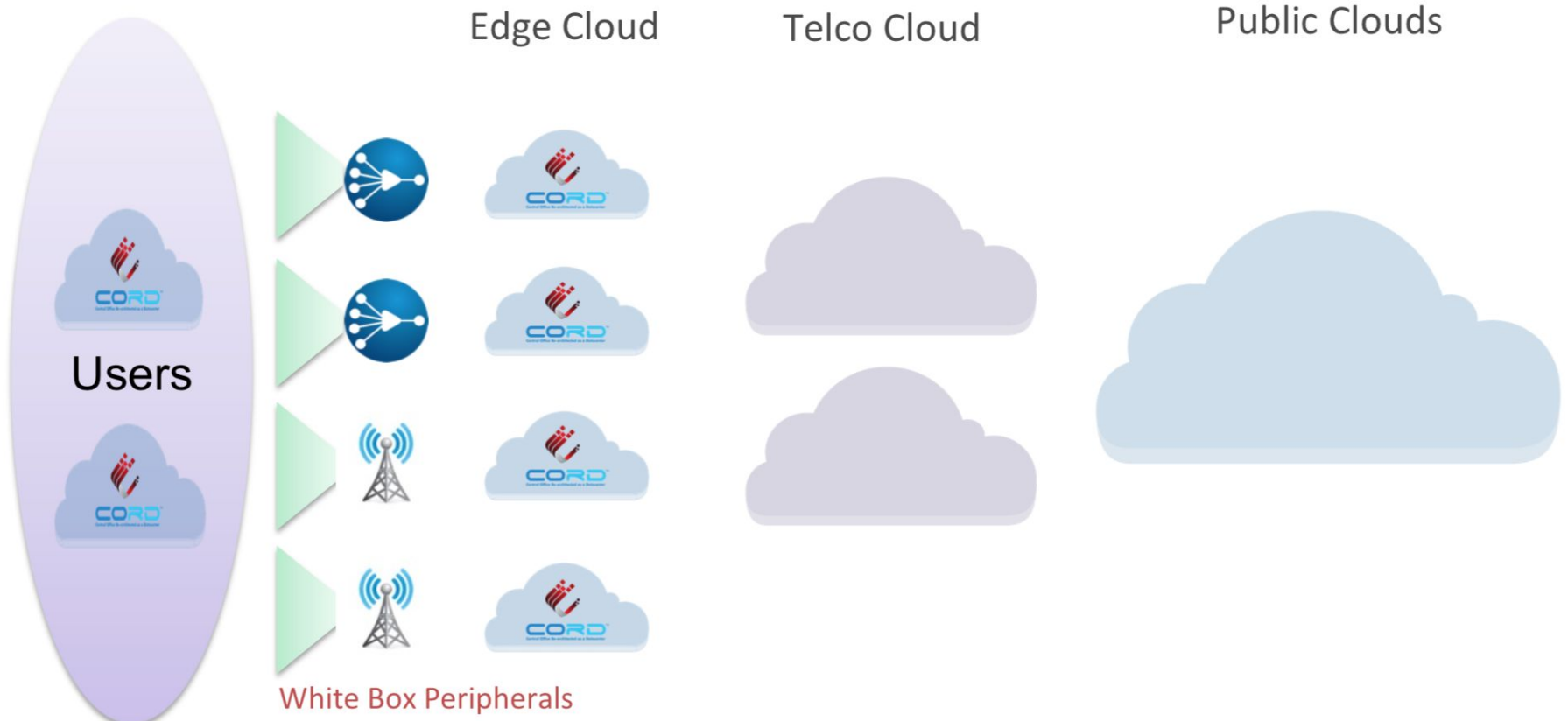




CORD as a Platform for New Network Edge



CORD - Reinventing the Network Edge



CORD as the New Network Edge Platform: Specifics



~25 services
residential, mobile, &
enterprise use cases

Software Stack:

- OpenStack/Docker/Kubernetes
- ONOS, XOS

OCP

OCP

Built with

- Merchant Silicon
- White Boxes
- Open source
- Openflow/Enabled
- White Boxes
- ONOS as SDN OS
- Fabric Apps on ONOS

Metro-Ethernet

GPON OLT

XGS-PON OLT

RAN

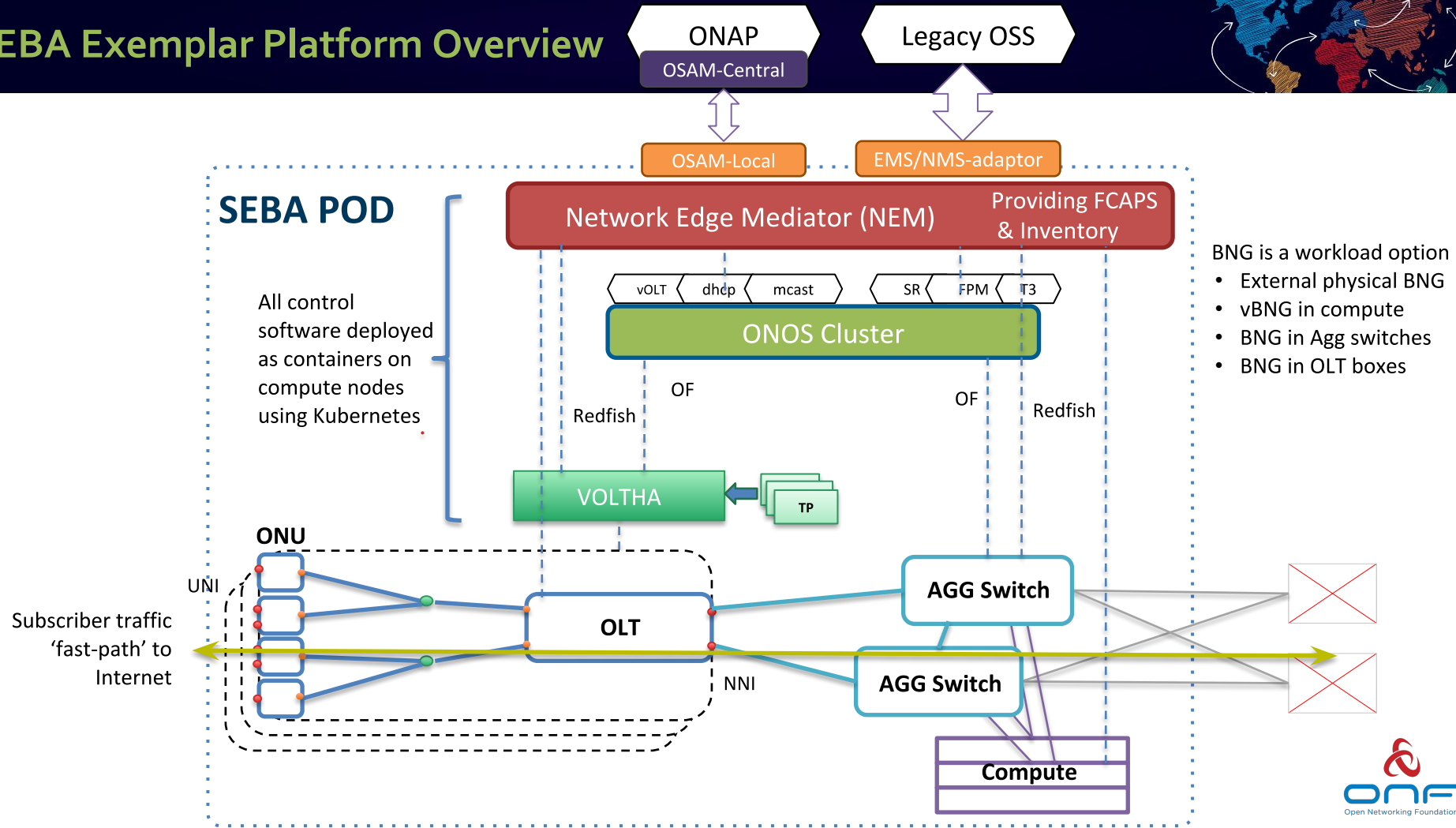
eNB w/ xRAN

ROADM

Disaggregated
ROADM

Zero-touch Provisioning
Config & Operation
With MAAS, Ansible, Docker,
Kubernetes, XOS

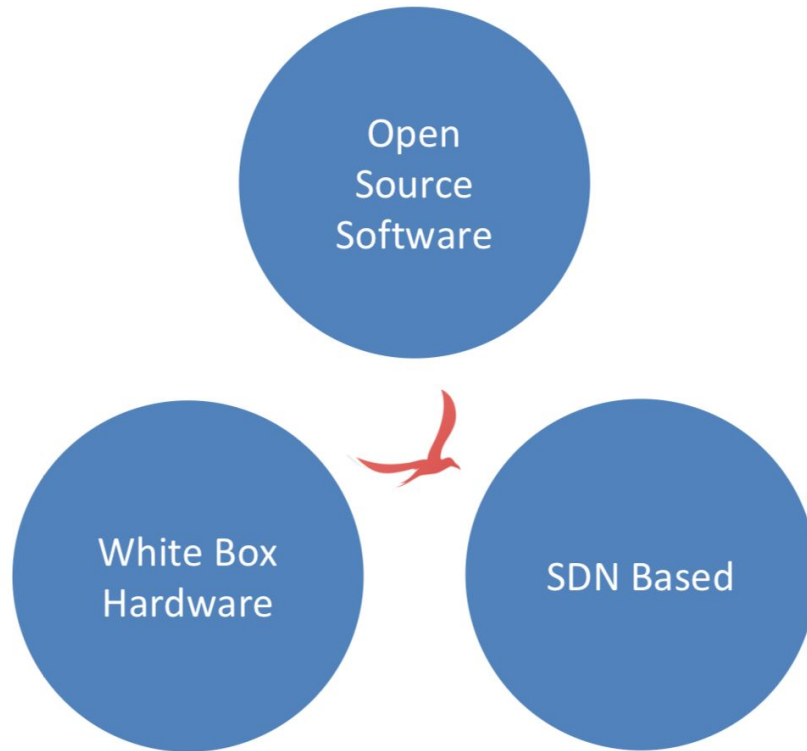
SEBA Exemplar Platform Overview

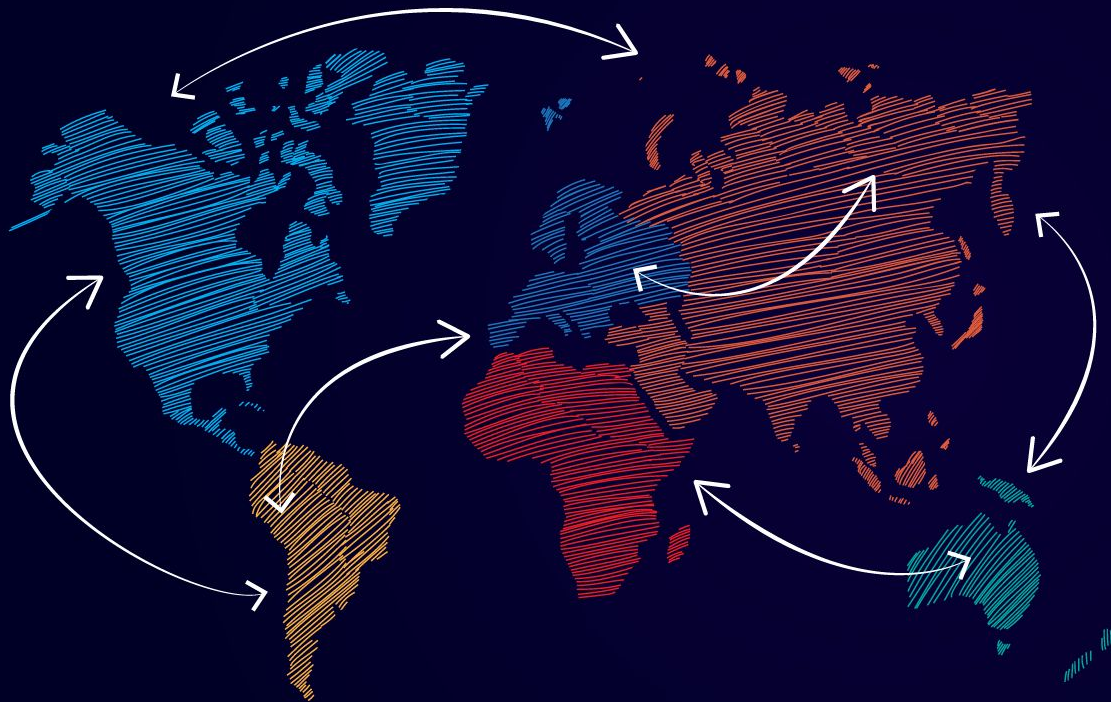




Trellis

Multi-purpose leaf-spine
fabric designed for NFV





Thank You!

<http://onosproject.org>

<http://opencord.org>

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