

# LF Broadband and VOLTHA Project Update

Amit Ghosh & Serkant Uluderya, March 8<sup>th</sup> 2024

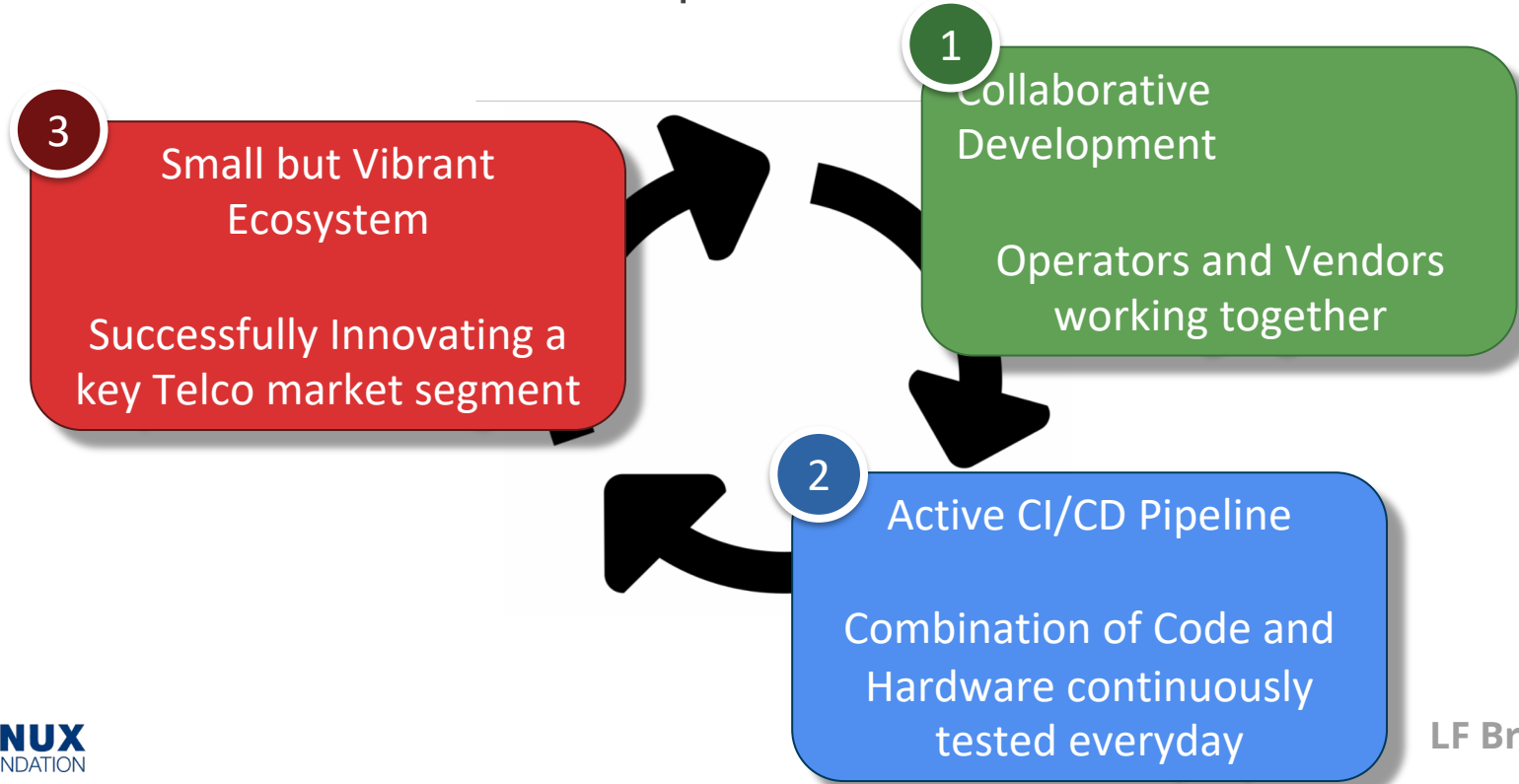


# Outline

- › VOLTHA
  - › Architecture and Key Components
  - › Current Release 2.12
  - › Deployments
- › Transition to Linux Foundation Broadband
- › Collaboration with BBF
- › How to get involved

# VOLTHA

Proven & Successful telco open source solution





# VOLTHA v2.12

## **Robustness, device management enhancements and support for additional subscriber profiles driven by Operator Requirements**

- › Support for Voice service profile
- › Enhanced error handling and recovery
- › Management interface improvements for logging, alarms and attributes received from OLTs
- › Observability infrastructure enhancements related to OLT metrics
- › Test infrastructure stabilization

# VOLTHA is deployed in Production

## Voltha is in production with live customers, including:

- › Deutsche Telekom (DT)
  - › [DT's first live deployment](#)
  - › Production deployment based on current VOLTHA releases
- › Turk Telekom (TT)
  - › [TT initial deployment](#)
  - › [TT scale to million of subscribers](#)
- › Reliance Jio
  - › Lab trials



**Multiple other Operators have VOLTHA-based solutions in several stages of Lab trials and Field trials**

# Move to Linux Foundation Broadband

## **The ONF Broadband Area including the ONF VOLTHA project moved into Linux Foundation Broadband by February 2024**

- › ONF Projects have already been under their own area leadership at ONF
  - now they have graduated into a fully community-led framework with greater independence
- › Linux Foundation was determined as the right host for ONF projects, given its' great experience hosting mature open source projects and community governance
- › Opportunity for VOLTHA to prosper in the larger Linux Foundation Open Source ecosystem with broader collaboration and synergies for member companies

## **VOLTHA continuous smoothly under its new umbrella LF Broadband**

- › The VOLTHA Technical Steering Team (TST) continues to oversee the technical work of the project
- › A new Governing Board for LF Broadband has been formed to guide SEBA and VOLTHA

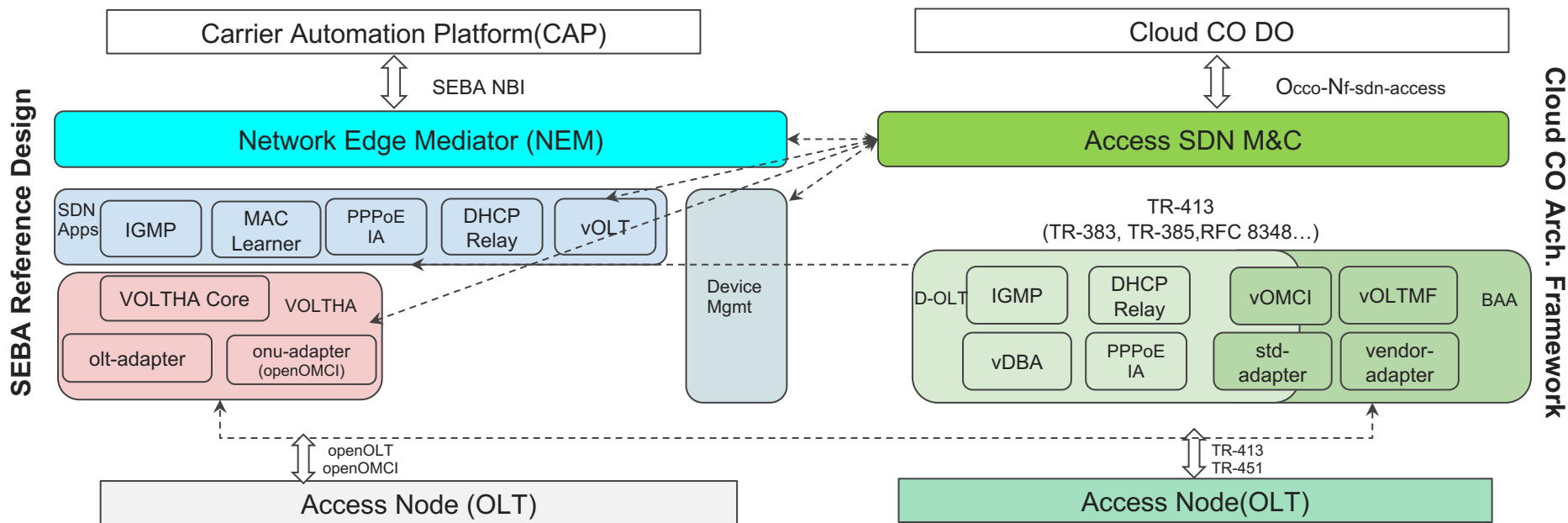
PR: <https://opennetworking.org/news-and-events/press-releases/onf-merges-market-leading-portfolio-of-open-source-networking-projects-into-the-linux-foundation>

# Collaboration with BBF - Motivations

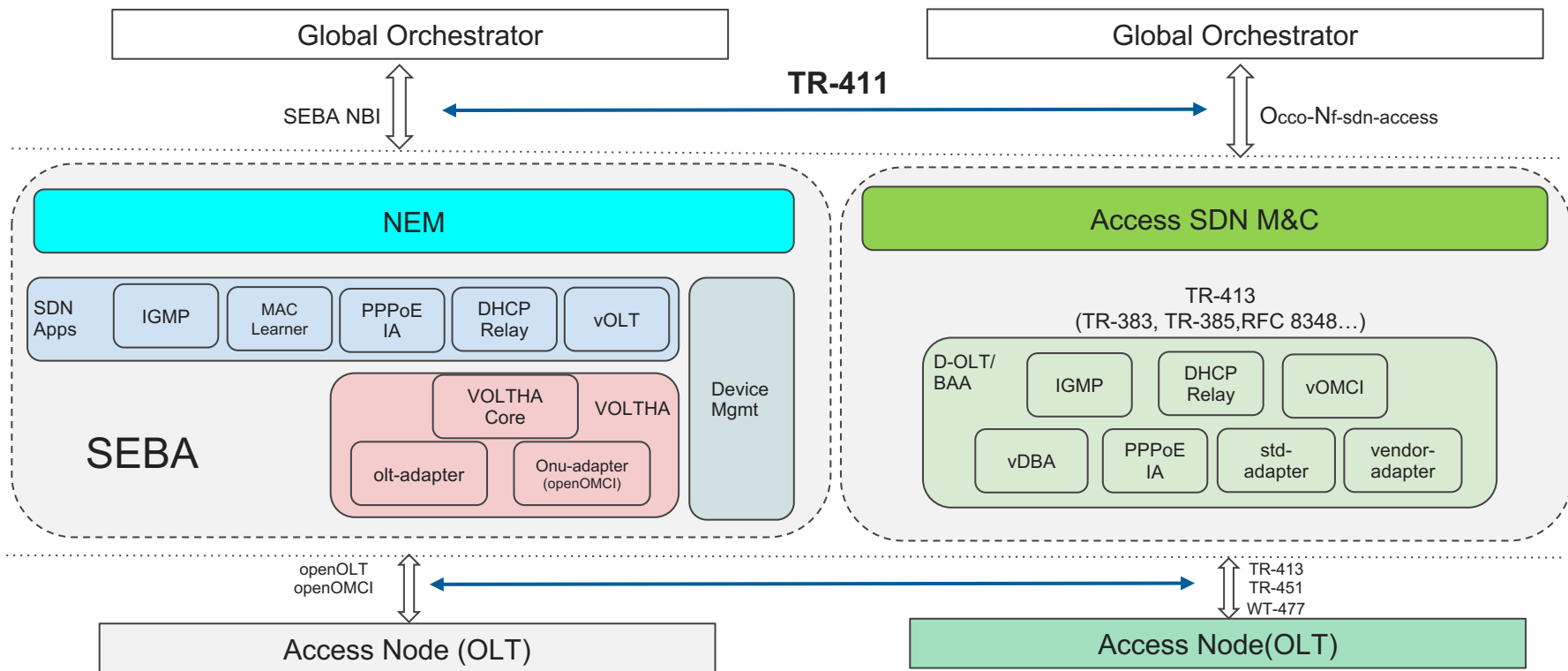
- › Service Providers require underwriting of their solution requirements against standards definitions in order to safeguard their investment, ensuring a wide community of suppliers and avoiding vendor-lock
  - › Ability to source different solutions enhance competitiveness and the convergence of requirements and standards protect investment
  - › Disaggregated SDN solutions, open-source or otherwise, are no different
  - › The VOLTHA community embraces this requirement
- › LF Broadband/VOLTHA intends to continue and deepen the fruitful collaboration with BBF, supported by mutual members, based on market demand
  - › There is a synergy in aligning standards and working open source
  - › Request all interested parties to participate in this joint effort



# Mapping: ONF Reference Design and Cloud-CO Technical Report(s)



# Integration Points



# More Information

## How to join as a Member

- › <https://enrollment.lfx.linuxfoundation.org/?project=broadband-fund>

## References

- › <https://opennetworking.org/voltha/>
- › <https://docs.voltha.org/>

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