

Whitebox OLT

ONIE & ONL

Open Network Install
Environment
&
Open Network Linux

LXC

Linux container
compliant



Telco Grade Hardware
Ready to
INSTALL ANYWHERE



Precision Time Protocol
Support for
Mobile Backhaul

Zyxel offers

Fiber

Mesh Wi-Fi 6

5G NR/4G LTE

Wi-Fi 7



**Technology
expertise**



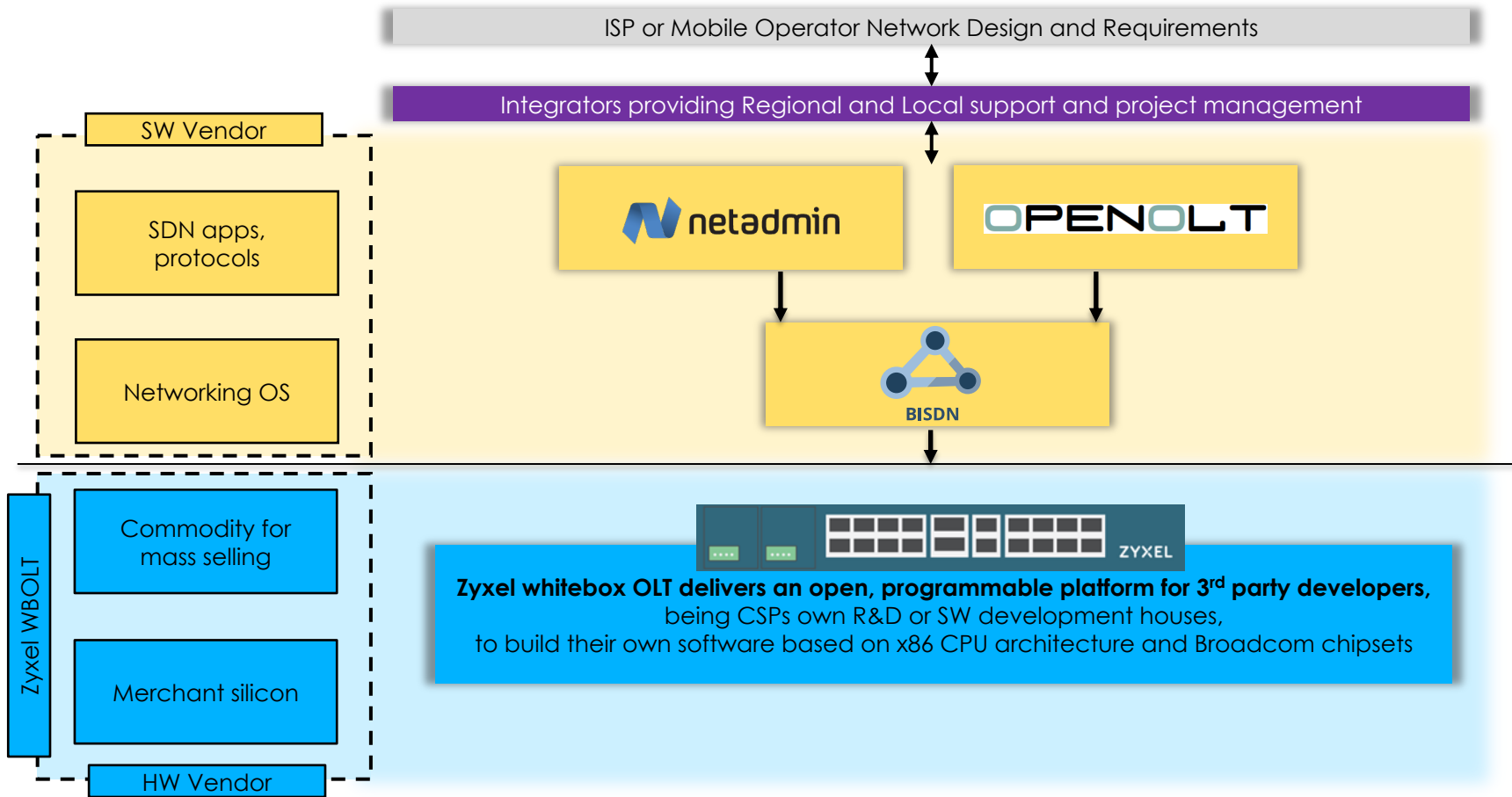
**End-to-end
solutions**



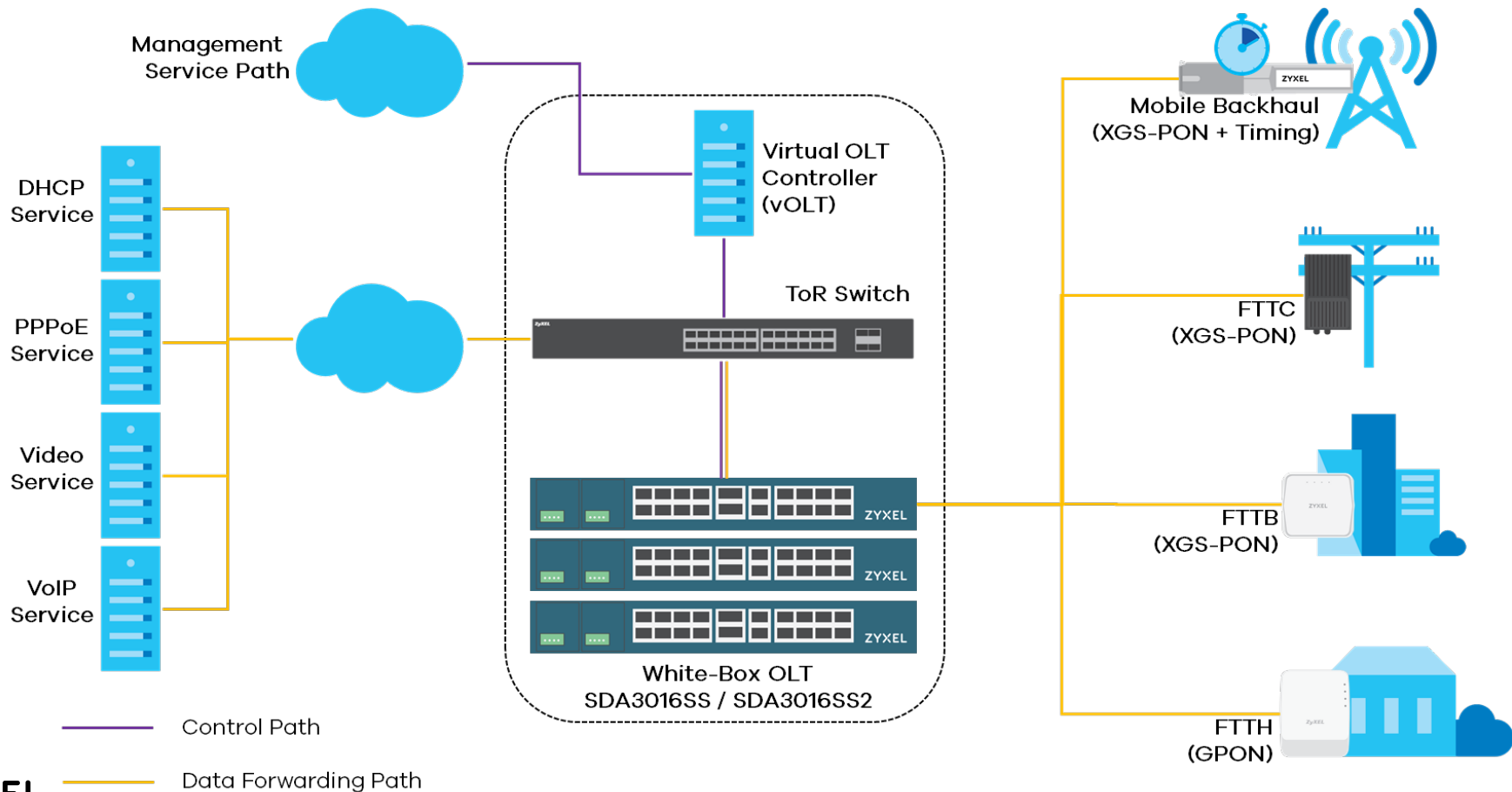
**Customer-centric
mindset**



**Service and
technical supports**



Disaggregated OLT Topology







Pluggable OLT Abstraction (pOLTA)

Zyxel SDA

BISDN – experts in whiteboxing networks!

2012: Self-funded and independent since inception

- Initial growth via R&D for service providers
- 25 employees by Q1 2024
- Mix of industry veterans (4 PhDs) and young engineers, multi-disciplinary team

2017: Product development of BISDN Linux whitebox operating system

- Latest release 5.1 as of Dec, 2023

2019: Carrier solutions based on BISDN Linux

- XGS-PON OLT in partnership with  **TIBIT** communications inc
- BNG: Broadband Network Gateway in partnership with 
- Legal Interception Gateway in partnership with (and for) 

2021: Open Core strategy for BISDN Linux

- Free and open source network OS
- Value-added applications for telco functions and system integration
- Demonstrations of vOLT @Swisscom, LI-Box @DT, vBNG @BBWF (w/ Vodafone+Intel)

2023: Founding of BISDN Bilbao

- Focus on pOLTA product for FTTx



Universal disaggregated OLT

Easily combine different PON and switch hardware options

Multiple Service Orchestrators

- Netadmin, Nokia Altiplano, Cisco NSO, Intraway Symphonica, OpenOLT

Multiple PON technologies

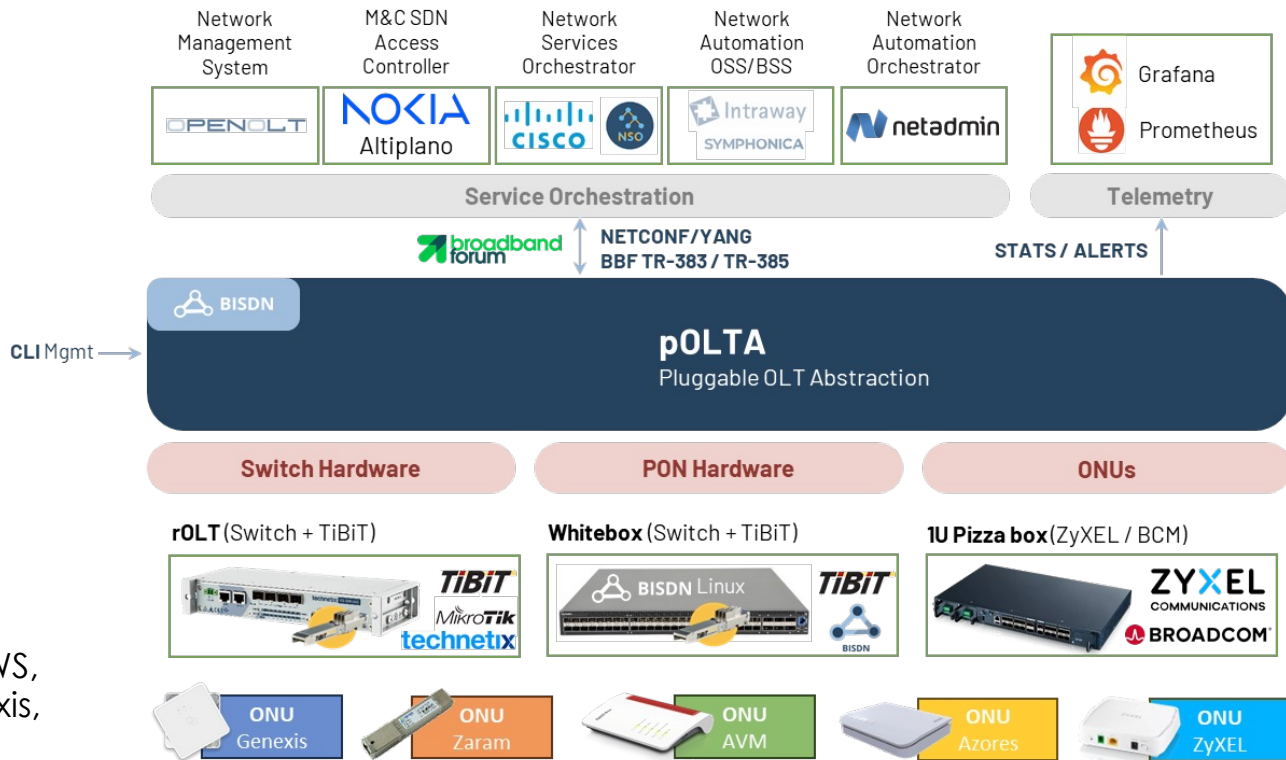
- GPON, XGS-PON, 25G PON
- Common NBI

Multiple platforms

- Switch: Technetix, Mikrotik, Broadcom
- PON: TiBiT, Broadcom BAL

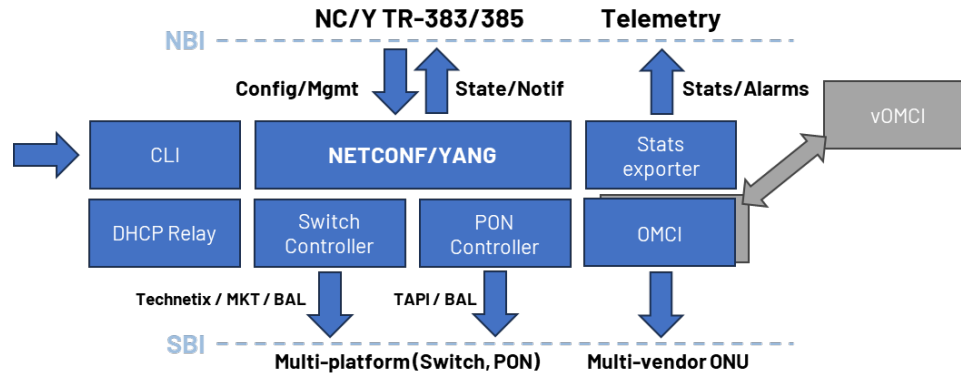
Multi-vendor ONU support

- Zyxel, CIG, AVM, Azores, BFWs, Zaram, DDKT, Icotera, Genexis, HALNY

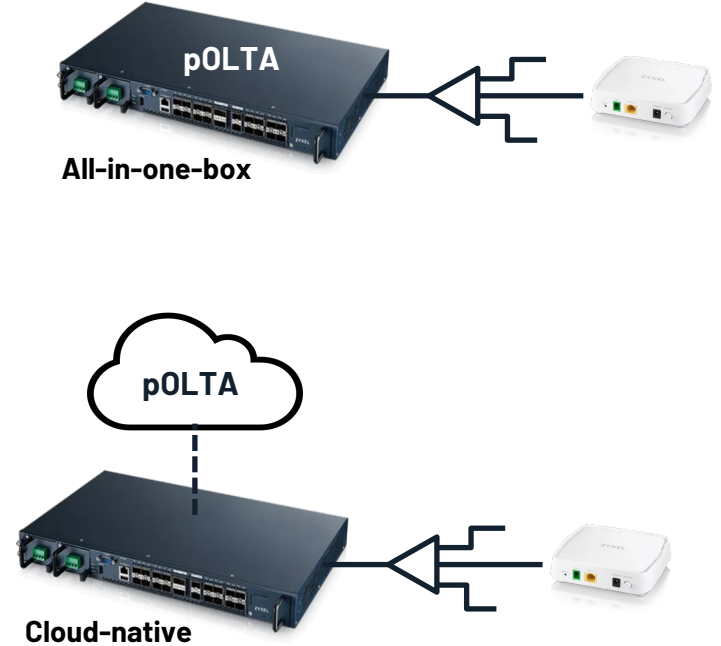


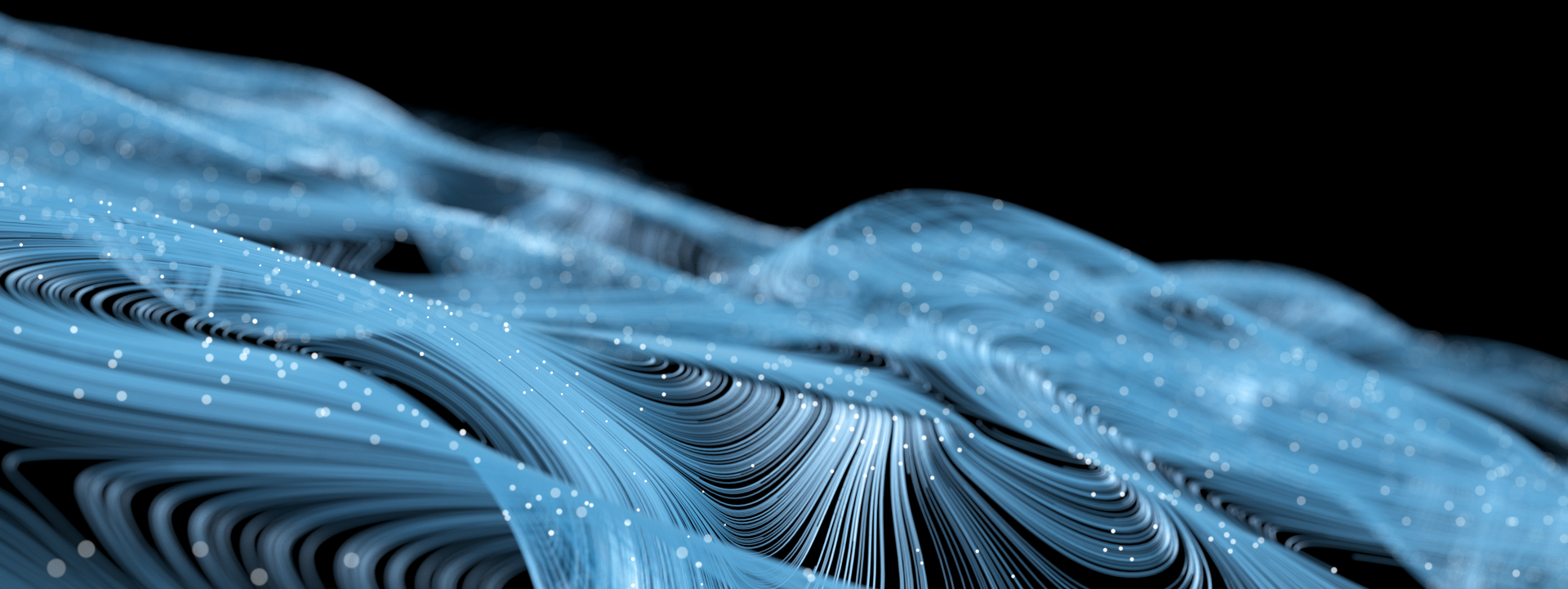
pOLTA architecture

OLT disaggregation



pOLTA deployment options on Zyxel SDA3016SS





OpenOLT.com

Customized GPON and XGS platform to respond FTTH subscriber challenges

Mission

- Provisioning and Maintenance of multivendor PON
- End to End visibility
- Remove Vendors Locking
- Big Data ready
- OpenOLT.com support vendors: NetConf / Yang BBF compliant OLTs, DASAN and DZS sdNOS OLTs, Zyxel, Huawei, ZTE, Nokia FX ISAM
- open for other integration

Keep it Simple

- Operation of multi vendor OLT Networks can be a headache. Our goal is to make it simple.

Tailored made

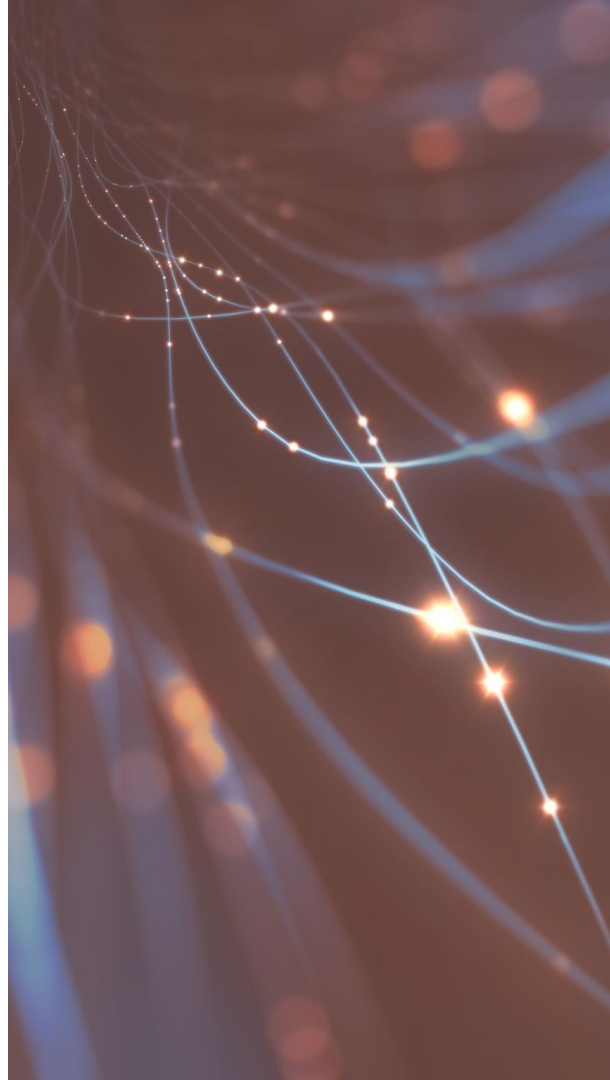
- Companies need products that comply with their culture of operation

Reduce Track Rolls

- Reduce subscriber visit, reduce cost and keep social distance

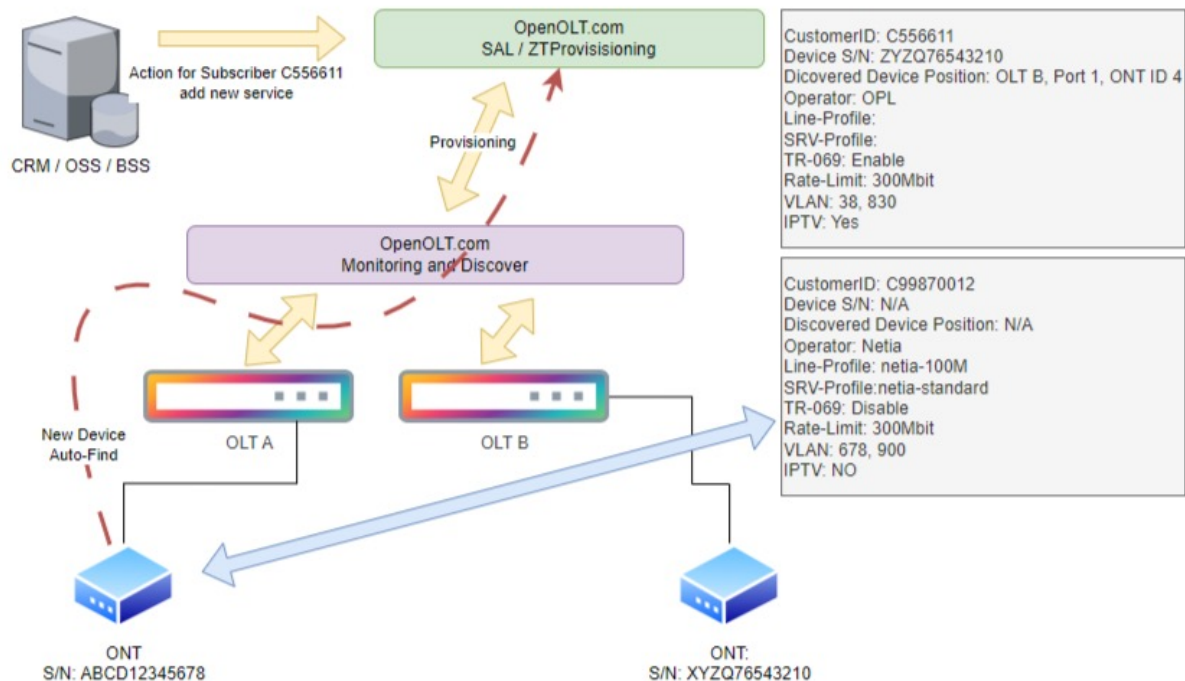
Modern

- Simple and modern solution that scales and brings ultrafast performance. You need only browser - no java clients needed.



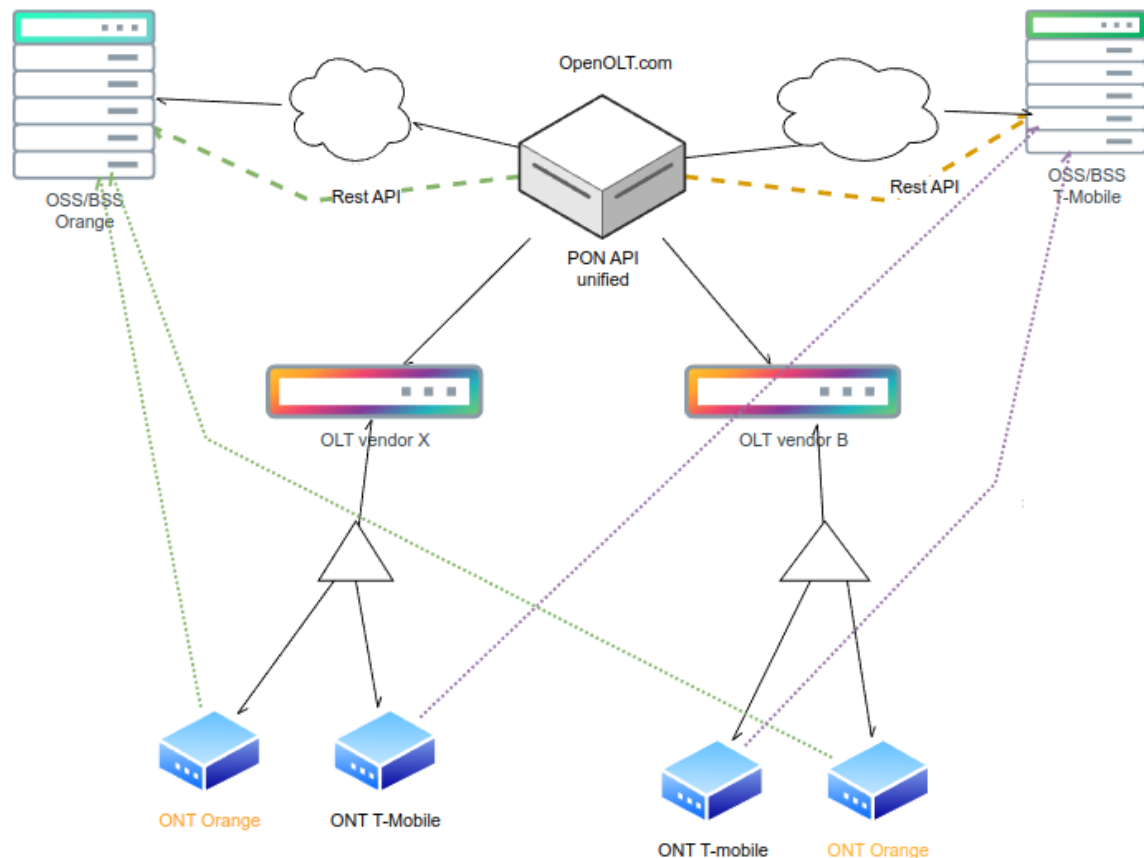
Zero Touch Provisioning

- Single Database for service-provisioning
- Provision Subscriber even before connection to fiber
- Discovery Service: Notify about newly connected or moved ONTs
- Vendor agnostic provisioning
- Support wholesale provisioning

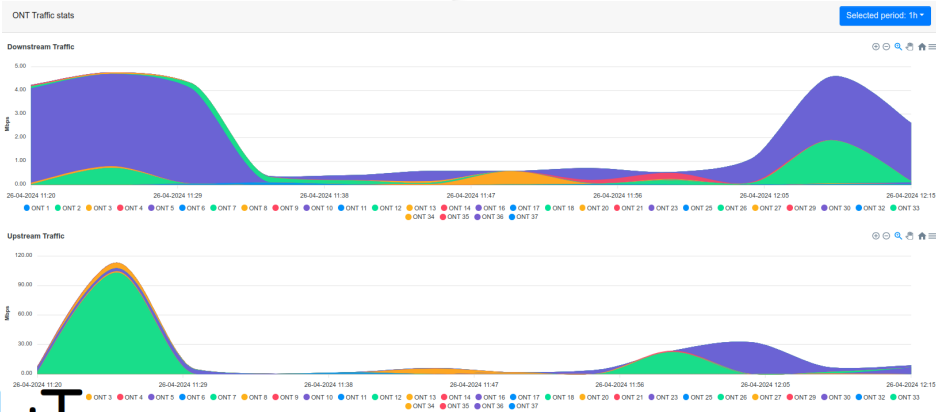
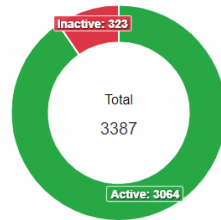
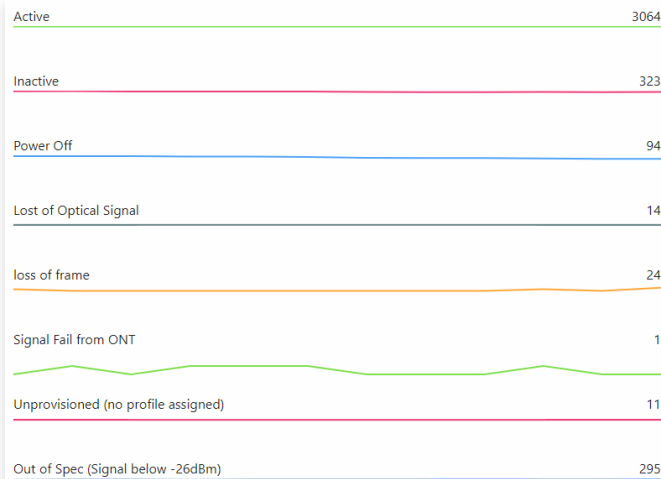


Wholesales: Fixed Access Network Sharing

- FTTH network in rural areas might be costly investment. Sharing it with other service operators is simple and straightforward option
- Also known as OLT Virtualization
- You can share infrastructure with multiple service partners that has access to API and GUI for assigned ONTs
- Service ISP want to manage the network as his own



Big Data ready to offer proActive approach



Reach out today



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