ONF Broadband Meetup, Istanbul
Francisco de Carvalho
October 19th, 2023
Enabling Service Providers to Become Digital Experience Providers

**US-based** with global sales and operations

Leading contributor to **open standards** organizations and initiatives

**Headquarters**: Hillsboro, OR United States

**Founded**: 1987

**Wholly owned subsidiary of** Jio Platforms Limited (JPL)
Open: Our Vision for the Networks of Tomorrow
Creating new digital experiences

Disaggregated
Software / Hardware
Network Functions
Control / Media

Intelligent
Software Defined
Programmable
AI/ML

Open
Software, Hardware, Interfaces
ONF SEBA/VOLTHA Project

ONF SEBA/VOLTHA Project

VOLTHA Scale and Performance

Alignment & Liaison

ONF TST and BBA Board members, BBF-ONF Tiger Team

BBF BoD and project Authors

• Subscriber Sessions Steering (BNG), WT-474

• Access Node Disaggregation, WT-477
<table>
<thead>
<tr>
<th>Repo</th>
<th>Contributor</th>
<th>No commits, Lines added/removed</th>
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<tr>
<td>device-management-interface</td>
<td>Abhilash Laxmeshwar</td>
<td>1 commit, 1,273 ++ /408 --</td>
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<tr>
<td></td>
<td>Amit ghosh</td>
<td>9 commits, 4,838 ++/1,778 --</td>
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<td>voltha-protos</td>
<td>Abhilash Laxmeshwar</td>
<td>4 commits, 3,773 ++/2,796 --</td>
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<tr>
<td>voltha-openonu-adapter-go</td>
<td>Praneeth kumar Nalmas</td>
<td>3 commits, 645++ /330-</td>
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<tr>
<td></td>
<td>Nikesh krishnan</td>
<td>4 commits, 720++/124--</td>
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<tr>
<td>voltctl</td>
<td>Praneeth kumar Nalmas</td>
<td>2 commits, 745++/244—</td>
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<tr>
<td>Voltha-go</td>
<td>Nikesh krishnan</td>
<td>4 commits, 739++/170—</td>
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<td>openolt-adapter</td>
<td>Praneeth kumar Nalmas</td>
<td>1 commit, 133++/35--</td>
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<td>Nikesh Krishnan</td>
<td>7 commits, 870++/38--</td>
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<tr>
<td>Voltha-lib-go</td>
<td>Abhilash laxmeshwar</td>
<td>2 commits 50 ++/2 --</td>
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<tr>
<td></td>
<td>Amith ghosh</td>
<td>1 commit 3,969 ++/2 --</td>
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<td>Vinod kumar</td>
<td>1 commit 204 ++/0 --</td>
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<td>Nikesh krishnan</td>
<td>2 commits, 21++/14-</td>
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<td>Openolt</td>
<td>Nikesh krishnan</td>
<td>1 commit 210 ++/18 --</td>
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<tr>
<td>VGC</td>
<td>Shridhar Ravindra</td>
<td>All of the VGC code contribution is from Rladisys. There are lot of commits and fixes here.</td>
</tr>
<tr>
<td></td>
<td>Akash Soni</td>
<td></td>
</tr>
</tbody>
</table>
The last 18 months – disaggregation has taken off

Access Network

- **2011-2018**
  - Innovation
    - VOLTHA
    - SDN-C

- **2018-2022**
  - Solution
    - CBAC
    - A4
    - India (live)
    - GE (live)
    - SA (poc)
    - vBNG
    - Brownfield RFQs

- **2022-now**
  - Product
    - CBAC-C/D
    - CMB
    - Scale & Standards
    - Global
    - Multiple RFx
      (Brown/green)

Mobile

- **Innovation**
  - Whitebox
  - SW Stacks

- **Solution**
  - CU/DU
  - RU(s)
  - India (live)
  - OEMs (live)
  - UK (pilot)
  - UK DSIT

- **Product**
  - SI Services
  - Agnostic
  - Scale & Standards
  - Multiple Customers

Brownfield RFQs

India (live)

OEMs (live)

UK (pilot)

UK DSIT
Software Defined Access and IP Solutions

E2E Automation, Observability and Changeability

ONT
- Lifecycle management
- Telemetry

Access Node
- Lifecycle management
- Session management
- Telemetry
- Capacity management

Aggregation / A10NSP
- Lifecycle management
- Load balancing
- Redundancy management
- Session management
- Telemetry
- Capacity management

BNG
- Lifecycle management
- Session steering
- Observability / Network telemetry also on session level
- High availability
- Capacity management

P-Router / Peering
- Lifecycle management
- Observability / Network telemetry
- Traffic management
- Capacity management

OSS / BSS integration
Thank You