

# VOLTHA

## VOLTHA

(Virtual OLT hardware abstraction)

### Introduction

Flexible and agile service adaptation at the cost of commodity servers and whitebox switches VOLTHA introduces the next-generation optical access system architecture, based on SDN/NFV technologies. Disaggregating PON functions to functional modules with open interfaces supports the CORD vision for open source reference implementations to service "Access-as-a-Service" use cases. VOLTHA is a virtual OLT hardware abstraction component that supports the CORD Project objective of multi-vendor, multi-domain "any broadband access as a service" reference implementation for the Central Office. VOLTHA provides isolation between an abstract (vendor agnostic) PON management system, and a set of vendor-specific and white-box PON hardware devices. On its north-bound interface, VOLTHA provides a set of abstract APIs which north-bound systems can interact with the PON networks. On its south-bound side, VOLTHA communicates with PON hardware devices using vendor-specific protocols and protocol extensions through adapters.

The documentation of VOLTHA is located here: [docs.voltha.org](https://docs.voltha.org)

## Key People and Communication Channels

### Technical Steering Team

The technical steering team is responsible for all technical decisions in the project. They are responsible for the content and structure of the code base and for all technical priorities with respect to the code base.

#### Current TST Members

Name	Company	Role
David Bainbridge	Ciena	TST Member
Andrea Campanella	ONF	TST Member
Amit Ghosh	Radisys	TST Member
Mahir Gunyel	Netsia	TST Member
Khen Nursimulu	Ciena	TST Member

### Mailing Lists

The mailing lists are the preferred way to get in touch with the project members with any questions, suggestions, or concerns.

- vOLTHA Discussions: <https://groups.google.com/a/opencord.org/forum/#forum/voltha-discuss>

### Slack

- Slack channel: #voltha-dev <https://onf-community.slack.com/archives/C01D229FP2A>
  - To join, please click here: [https://join.slack.com/t/onf-community/shared\\_invite/zt-g2ed9rid-t9mAGa4Y2RrKfBWbY665tA](https://join.slack.com/t/onf-community/shared_invite/zt-g2ed9rid-t9mAGa4Y2RrKfBWbY665tA)

### TST Meetings

- VOLTHA TST Meetings - Tuesdays at 8am PT.

**NOTE: these meetings are PUBLIC and often RECORDED. The recordings can be found on YouTube:**

- vOLTHA: <https://www.youtube.com/playlist?list=PLCnPGaNt7C5evyQ-FFwAtbKaUp4cDmINa>

### Jira

- VOLTHA JIRA Project - Project [here](#)