



TeraFlow SDN

by ETSI

- ETSI TeraFlowSDN (TFS) Controller
 - Cloud-native and microservice-based SDN controller.
 - Community-driven, open-source, scalable, flexible, and extensible.
 - Origins in the EU H2020 “TeraFlow” project
 - <https://teraflow-h2020.eu/teraflowsdn>
 - Supports multiple technologies and standardized protocols and interfaces.
 - IP-over-DWDM, Inter-domain, Security, etc.
 - NBI: IETF L2VPN, **IETF Slice Framework**, **IETF Service Models**
 - SBI: OpenConfig, P4, ONF Transport API,
 - Future support planned
 - IETF Optical Device Models
 - IETF Inventory Models
 - Purpose is proof of concept
 - This enables “product specification by software example”
 - Not intended to be the foundation of a product
- Project Overview and Project Signup
 - <http://tfs.etsi.org>
- ETSI TFS GitHub
 - <https://labs.etsi.org/rep/tfs/controller>

E2E L2VPN Service



RFC8466: Layer 2 Virtual Private Network Service Delivery

RFC9291: Network Data Model for Layer 2 VPNs --> IETF-116 hackathon

[draft-ietf-teas-ietf-network-slices](#)

[draft-ietf-teas-ietf-network-slice-nbi-yang](#) --> IETF-116 hackathon

BGP-LS for Topology Export (multiple drafts in IDR)



OpenStack REST-API

OpenStack REST-API



Optical Edge

Optical Edge

Optical Network

Primary

Backup

MicroStack DC1

MicroStack DC2

