

# 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/teraflovsdn>
  - 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



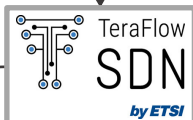
RFC8466: Layer 2 Virtual Private Network Service Delivery

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

