TeraFlow

Secured autonomic traffic management for a Tera of SDN flows

Main objectives

Our main objective is the creation of a novel SDN controller for beyond 5G networks
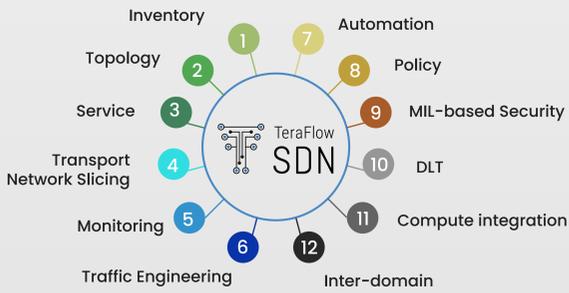
This new SDN controller shall be able to integrate with current NFV and MEC frameworks as well as to provide revolutionary features for both flow management (service layer), and network equipment integration (infrastructure layer), while incorporating ML-based security and PDL-based forensic evidence for multi-tenancy.
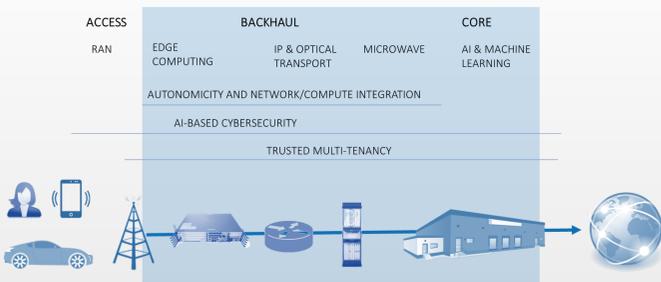
The TeraFlow OS will be the first of a new type of secured cloud-native SDN controllers that will radically advance the SoA in software-defined networks.
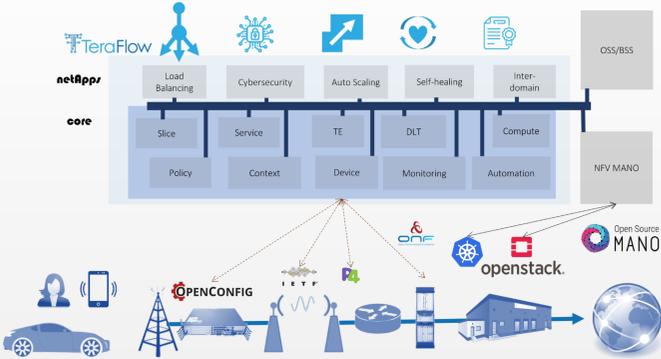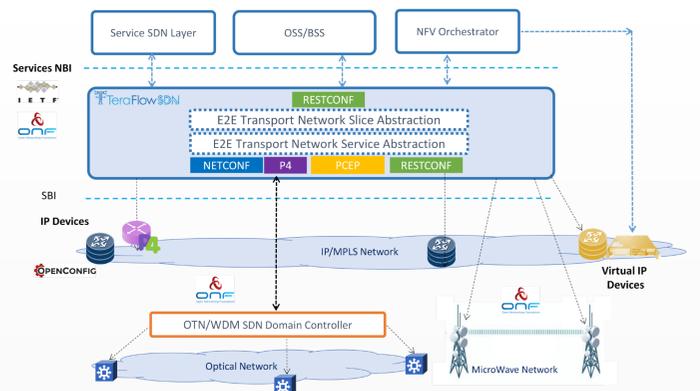
Requirements

1. Inventory
2. Topology
3. Service
4. Transport Network Slicing
5. Monitoring
6. Traffic Engineering
7. Automation
8. Policy
9. MIL-based Security
10. DLT
11. Compute integration
12. Inter-domain

TeraFlow SDN

Applicability scenario

ACCESS — RAN
BACKHAUL — EDGE COMPUTING | IP & OPTICAL TRANSPORT | MICROWAVE
CORE — AI & MACHINE LEARNING

AUTONOMICITY AND NETWORK/COMPUTE INTEGRATION
AI-BASED CYBERSECURITY
TRUSTED MULTI-TENANCY

Architecture
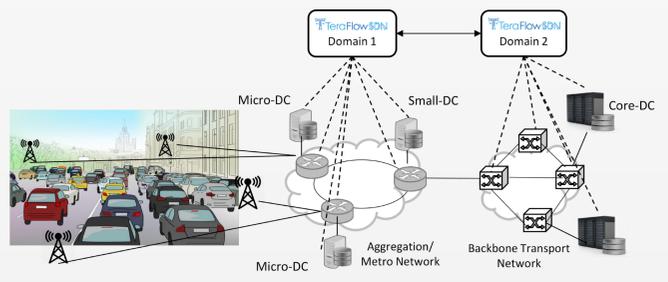
ETSI OSG TeraFlowSDN (TFS)

Join Us @ tfs.etsi.org

Autonomous network beyond 5G

Inter-domain

Over The Air Update

Micro-DC | Small-DC | Core-DC
Domain 1 | Domain 2
Micro-DC | Aggregation/Metro Network | Backbone Transport Network

Cybersecurity

ACCESS CO | TRANSPORT NETWORK | DC

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