

On-Demand Dynamic Bandwidth Scaling via LSO-compliant Platform and Continuous Performance Monitoring with NFV



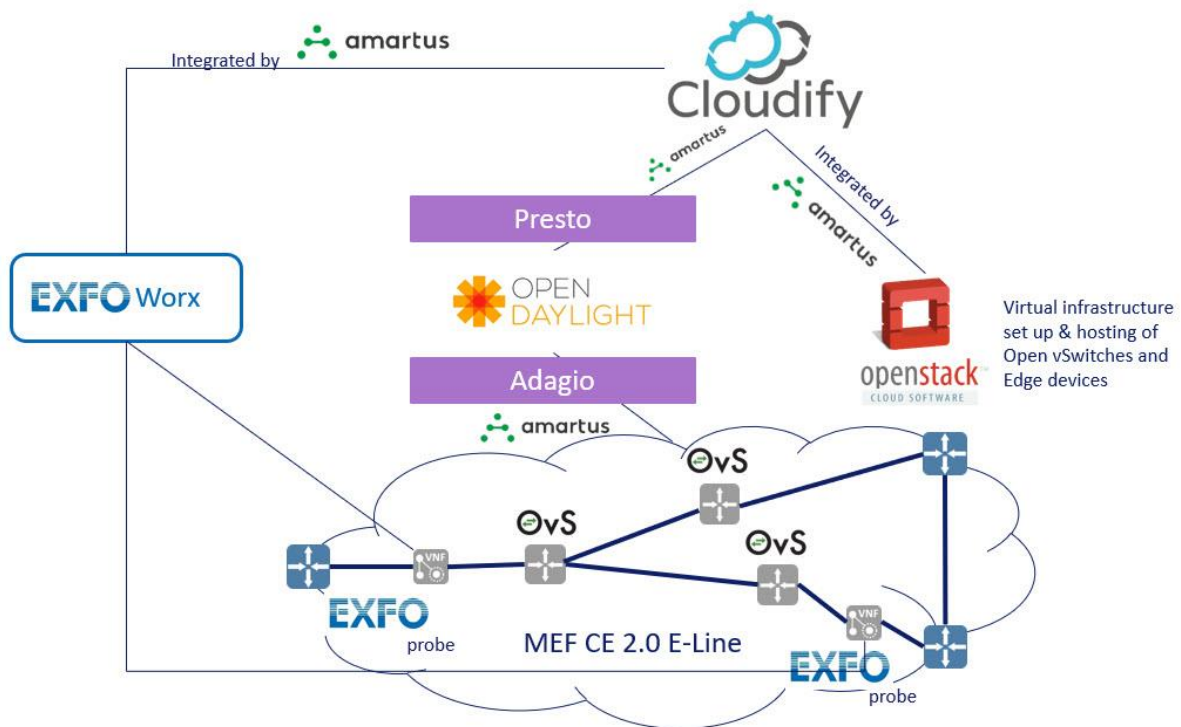
Business services are becoming extremely dynamic with the introduction of NFV/SDN and SD-WAN. With many moving parts, operators and business service consumers are now equipped with incredible tools to make advantage of the NFV infrastructure.

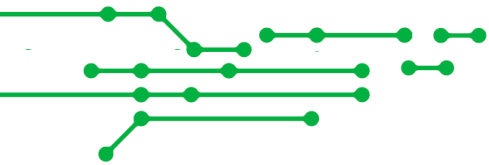
EXFO and Amartus are proposing a joint solution demonstrating how a combination of advanced orchestration and active testing can speed up delivery of tailored, scalable services to business customers.

The challenge: How to realize an orchestrated, standardized Carrier Ethernet service with an additional service assurance functionality using LSO-compliant components and NFV technology.

Key components:

- EXFO WORX with MEF 48-compliant testing elements delivered as NFV appliances
- MEF 55-compliant TOSCA-based orchestrator by Cloudify
- Open SDN controller
- The most recent release of Presto NRP data models
- Mininet network of virtual switches
- OpenStack infrastructure





The solution: The PoC demonstrates provisioning of an orchestrated MEF CE 2.0 service with dynamic bandwidth scaling in an integrated, closed-loop service lifecycle automation system. The PoC supports active assurance scenarios such as service level agreement (SLA) compliance testing or dynamic bandwidth shaping, by integrating EXFO's Performance Assurance test suite within LSO-compliant engine, providing a fully orchestrated and closed-loop dynamic system.

The result: Leveraging the Lifecycle Service Orchestration translates into significant savings in SLA compliance testing, and service automation combined with advanced assurance helps providers achieve their business goals and get high-quality services to market first.

