



Automated Service Lifecycle Management in Multi-domain Networks Using MEF 3.0 Architecture



Service providers are still struggling with proprietary, monolithic solutions that require custom integration work and painstaking development of customer-specific features.

The challenge: How to quickly provision services across multi-vendor and technology domains? How to seamlessly integrate hybrid networks? There are a variety of open API initiatives available, but many address a specific need instead of offering a holistic, end-to-end lifecycle approach.

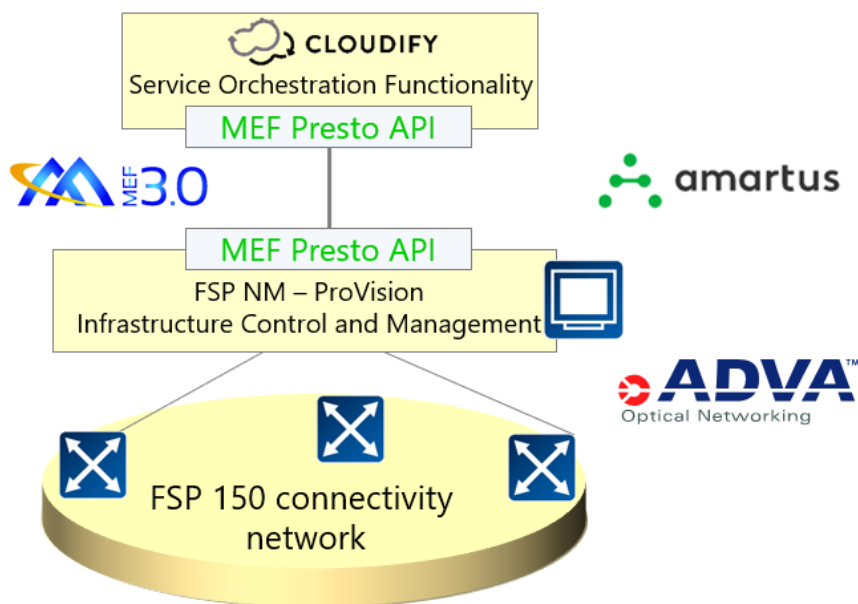
The solution: Open API northbound of a domain manager allows retention of technology specific functions separate from the services provided by the network. This abstraction greatly decreases the management complexity and enables simplified operations, which accelerates service provisioning and reduces service delivery costs.

The use of programmable interfaces enables service automation, which leads to significantly faster service activation and modification and improves the quality of end-customer experience.

Building on the widely-accepted MEF LSO architecture recognized by global service providers ensures easy integration with standardized east-west and north-south interfaces, and enables true end-to-end orchestration across multi-vendor, multi-technology domains.

Key components:

- MEF 60 Presto network resource provisioning API
 - Based on ONF T-API (TR-527)
 - Service provisioning/modification
 - Topology
 - Notifications
- YANG Models over IETF RESTCONF interface
- Open source TOSCA Service Orchestrator
- ADVA Pro-Vision® domain management solution
- Amartus' MEF LSO API contribution and software development expertise





The result: By reducing the integration effort and minimizing network design and deployment risk, standard interfaces accelerate service rollout, increase network agility, and therefore shorten time to market and improve customer experience.

MEF-standardized interfaces allow service providers to simplify network integration, streamline operations and meet increasingly demanding service activation requirements in cloud-centric networks. By combining SDN technology with reliable open standards, network companies can finally benefit from agile, automated cloud-based services.

