SD-WANs and Lifecycle Service Orchestration (LSO) October 2017

MEF

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About MEF

MEF created the \$80B* Carrier Ethernet Market.

MEF's goal is to leverage the global Carrier Ethernet managed services interconnected footprint and evolve to a cloud-native, programmable and virtualized network with new revenue services for the digital economy



Agile, Assured, Orchestrated



Global Contributions

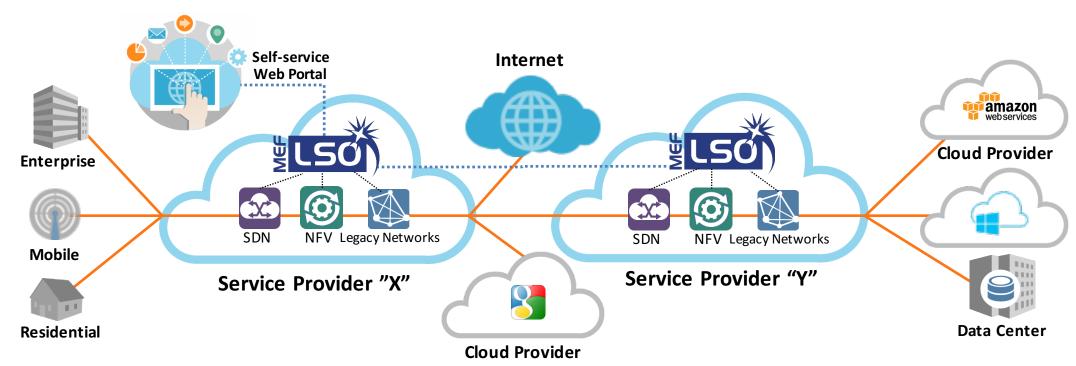
■EMEA ■APAC ■CALA

MEF's Third Network Vision

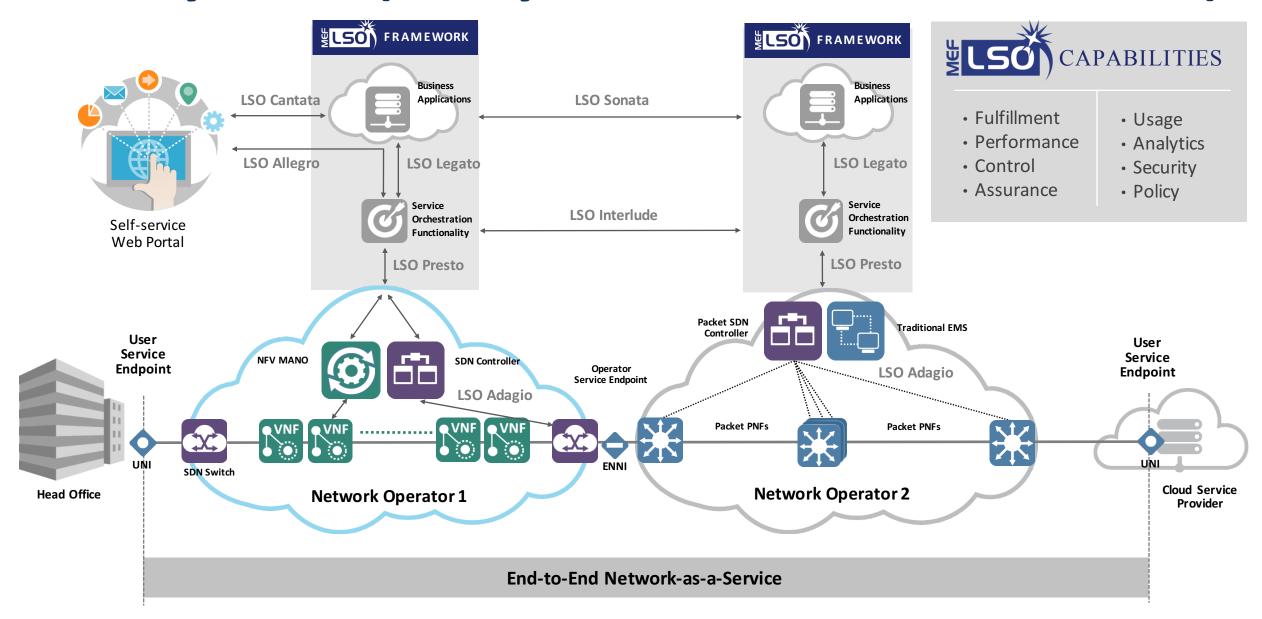
TheThirdNetwork

Agile, Assured, Orchestrated





The Key - LSO (Lifecycle Service Orchestration)

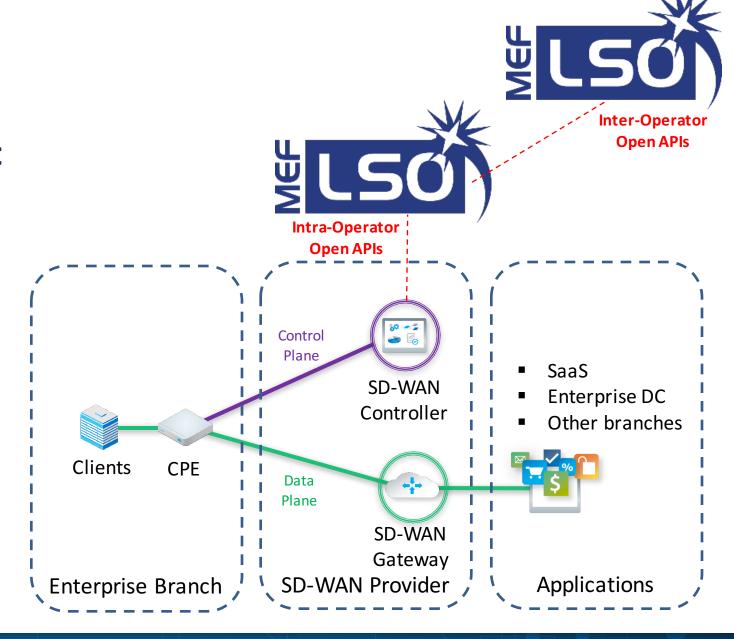


The MEF and SD-WAN

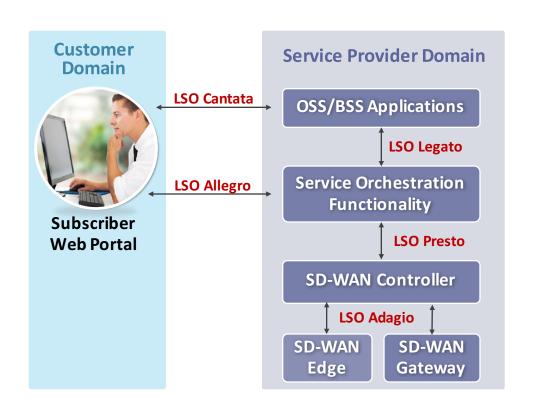
- Facilitate multi-vendor SD-WAN interoperability and operational agility as service providers look to streamline operational efficiencies and control network resources on demand
- OpenCS SD-WAN project that is focused on defining LSO APIs, SD-WAN reference implementations (RI) and proof of concepts (POCs) to facilitate and accelerate SD-WAN service deployments
- SD-WAN Market Education Project to explain MEF's position on SD-WAN and how it aligns with other initiatives focused on orchestrated Layer 1-7 services enabled by LSO APIs. Educational materials will include white papers, webinars, workshops, and use cases.

LSO and SD-WAN

- Focus on Service Provider SD-WAN managed services market
- Enable LSO APIs in SD-WAN services
- Segregate control and data plane
- Support
 - Service Provider SD-WAN components in the form of VNF's
 - SD-WAN CPE in virtual or physical form factor



Using the MEF LSO Reference Architecture



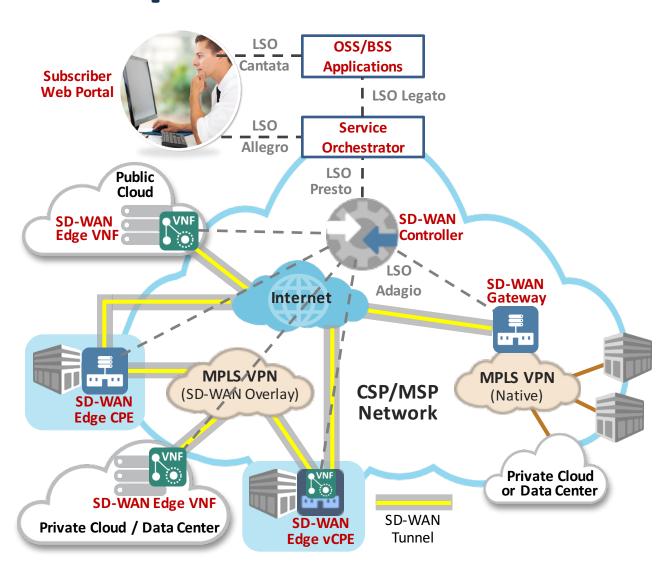
LSO Presto Reference Point

- Enables a Service Orchestrator to manage different vendor SD-WAN Controllers
- SD-WAN Controllers manage SD-WAN Edges in their domain
- MEF OpenCS SD-WAN Project focusing on functionality (SOF) at the LSO Presto Reference Point

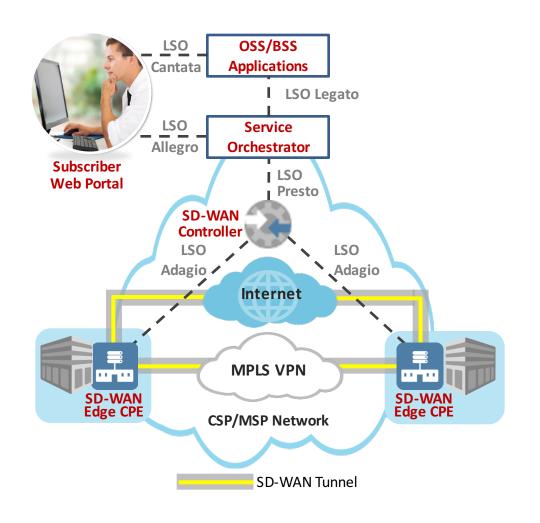
SD-WAN Service Components

Industry neutral MEF terminology

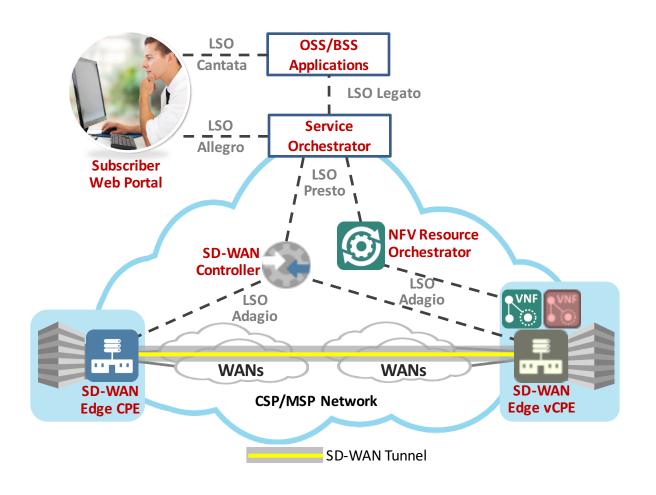
- SD-WAN Edge VNF
- SD-WAN Controller
- SD-WAN Gateway
- SD-WAN Edge CPE



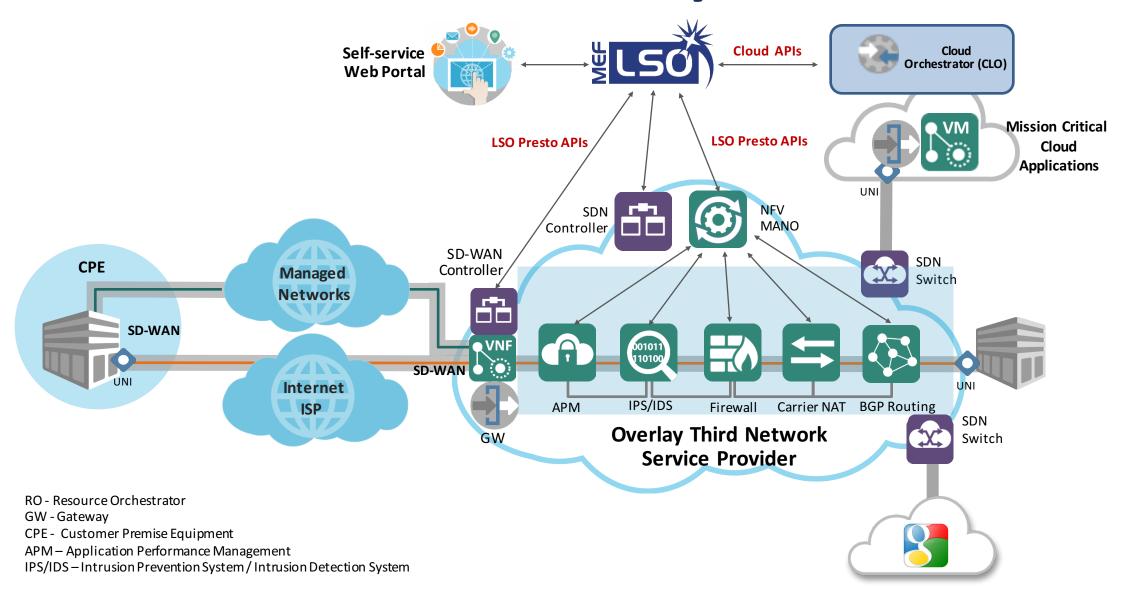
Example Use Case: SD-WAN Service Tunneled over Internet and MPLS WANs



Example Use Case: SD-WAN Service with SD-WAN Edge vCPE Supporting Multiple VNFs



The Third Network Overlay Virtualized Model



Key Takeaways...

- MEF work on SD-WAN Services helping industry move forward
 - Managed SD-WAN offerings achieved using MEF LSO Reference Framework
 - Open standardized LSO APIs covering SD-WAN service use cases
 - Reference implementations of SD-WAN use cases
 - Definition of standardized SD-WAN service

SD-WAN MEF members contributing to MEF's SD-WAN work:













Contributing to MEF SD-WAN Work



White Paper:

Understanding SD-WAN Managed Services:Service Components, MEF LSO Reference

Architecture, and Use Cases



OpenCS SD-WAN Project

- Developing Use Cases and User Stories
- Building Reference Implementations within the MEF LSO framework
- wiki.mef.net/display/CTO/OpenCS+SD-WAN+Project

SD-WAN Market Education Project

- Developing Use Cases
- Developing and Delivering white papers, webinars and workshops
- wiki.mef.net/display/MC/SD-WAN+Market+Education+Project

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