
MULTI DOMAIN SERVICE ORCHESTRATION

for a Networking Equipment Supplier



Services: Network Service Orchestration, Telco Cloud & System Integration

OVERVIEW

Client is a **\$3 billion** USA based Global Supplier of Telecommunications Networking Equipment, software, and services

- ▶ Provide End-to-End Service Automation and Orchestration across multiple technologies (physical and virtual) and vendor eco system
- ▶ Integrate Legacy network system and multi vendor products for Service function chaining

CHALLENGES



Need to Centrally Orchestrate the Multi-vendor devices for better configuration



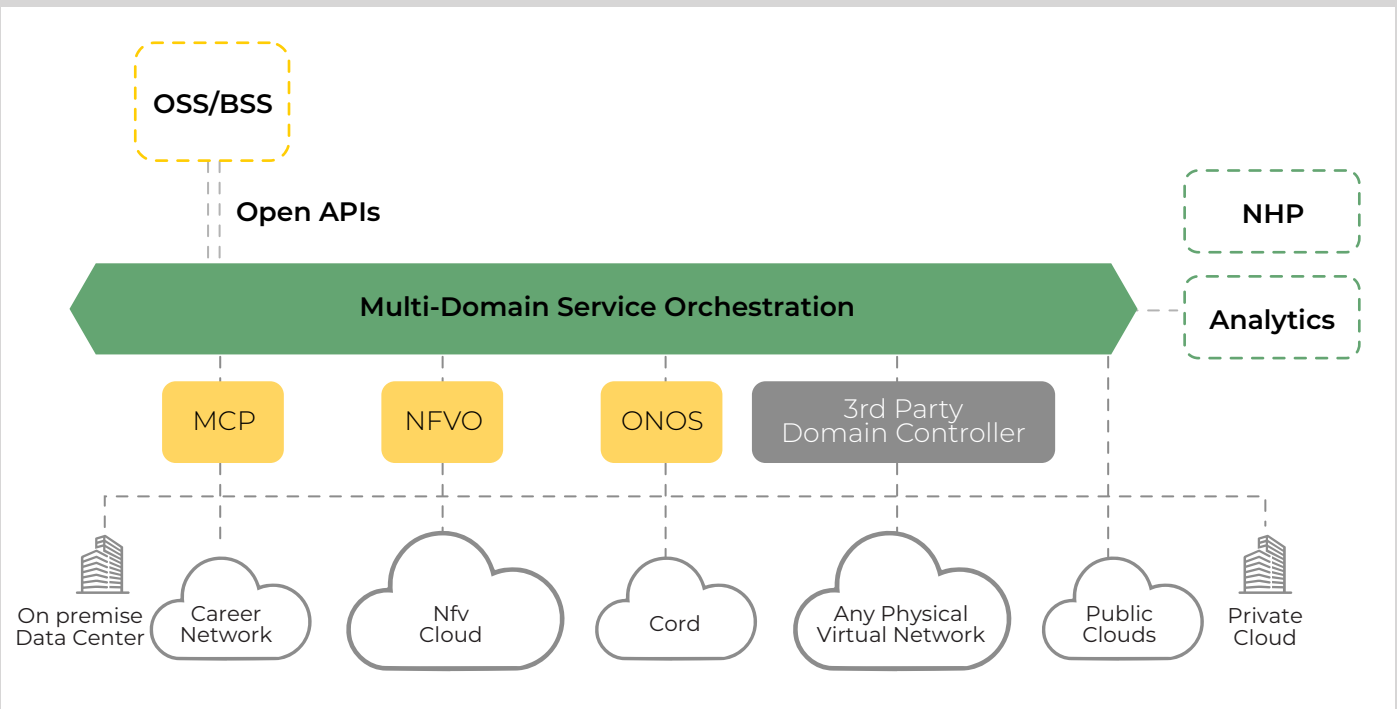
Delays in Service Integration affecting the delivery timelines

SOLUTION

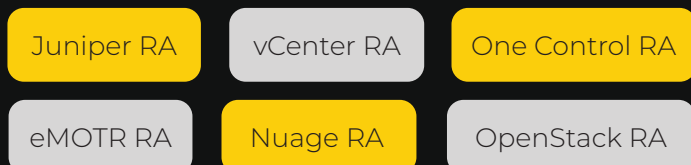
- 1** A to Z provisioning of Ethernet services comprising of multiple carrier network switches: L2/VLAN filters, Bandwidth, OAM (Operations, Administration and Management) and Flow/Policy configuration
- 2** Creation of different types of profiles (Profile manager) such as Bandwidth, Service, Filter, OAM for Network Services
- 3** Service templates (MDSO) for L2 Ethernet Service- EPL/EVPL, L3VPN service, Network Audit, Audit Resolution, and Bulk Modify



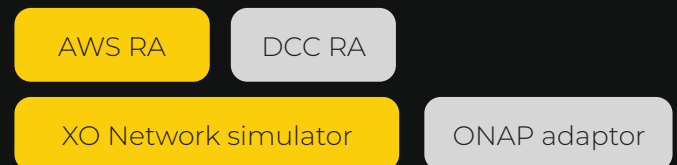
SOLUTIONS OVERVIEW



Development of Resource Adaptors (RA) for MDSO



Resource Adaptors (RA) for virtual Multi Service Provider (vMSP)



HIGHLIGHTS

- Python, REST, Jinja, Docker
- Open stack platform for deploying virtual firewall for individual tenants at the edge of the virtual network
- VMWare Vcenter for virtual work load management and orchestration
- Federated cloud network service across XO and AWS networks
- MDSO Orchestration for configuration and provisioning of customer resources such as AWS Virtual Private Cloud (VPC), Virtual Gateway (VGW), and Virtual Interface
- Layer 2 service across XO customer VRF

OUTCOMES

- Single self-service portal, with on-demand connectivity and end-to-end service visibility to multiple clouds and cloud providers from any location
- Integrates with third-party SDN Controllers, element/network management systems, and cloud management platforms
- Modular and programmable structure supports control of multiple technologically diverse domains like cloud, multi-layer WAN, NFV, and IP/MPLS