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
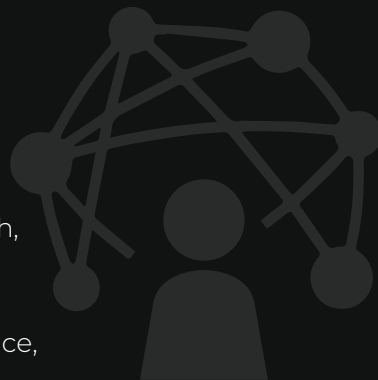
CHALLENGES

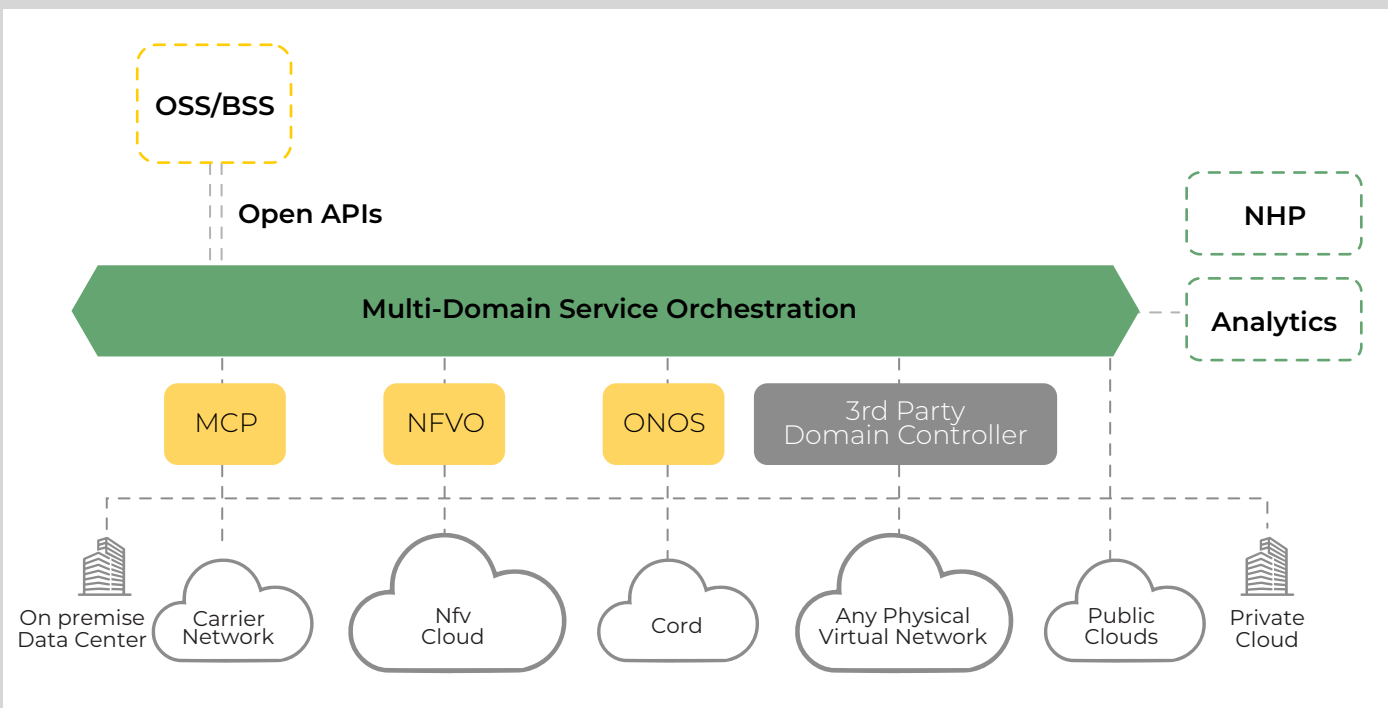Need to Centrally Orchestrate the Multi-vendor devices for better configuration

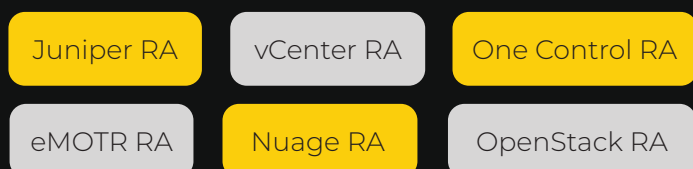Delays in Service Integration affecting the delivery timelines

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
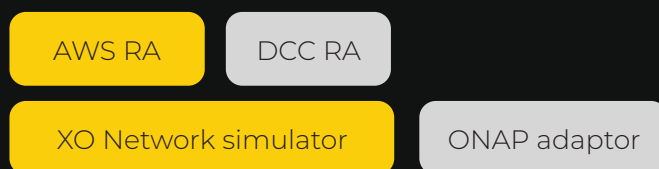
SOLUTIONS OVERVIEW

OSS/BSS

Open APIs

NHP

Multi-Domain Service Orchestration

Analytics

MCP | NFVO | ONOS | 3rd Party Domain Controller

On premise Data Center | Carrier Network | Nfv Cloud | Cord | Any Physical Virtual Network | Public Clouds | Private Cloud

Development of Resource Adaptors (RA) for MDSO

Juniper RA | vCenter RA | One Control RA

eMOTR RA | Nuage RA | OpenStack RA

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

AWS RA | DCC RA

XO Network simulator | ONAP adaptor

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 provisionioning 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

To know more about how ACL can partner with you to help create Digital Transformation, connect with: **business@acldigital.com**

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