Carrier Case Study

A carrier building a new global network offering on-demand connectivity. The requirements were for real-time provisioning and customer self-service.

ActivePort SDN Solution

Orchestrating eight network and cloud vendors to provide automated provisioning and bandwidth on demand (BoD). ActivePort's architecture enables new providers to be easily added with minimal effort, with two new vendors already on the roadmap.

aws | Alibaba Cloud | Google Cloud | ORACLE

JUNIPER NETWORKS | NOKIA | consoleconnect | Azure | CISCO

Scoping: 5 days | **Development: 90 days** | **Implementation: 10 days**

Virtual Point to Point

DC to DC
ActivePort automated the configuration required to provision virtual point to points using Nokia and Juniper.

Use cases:

- **VLANS**
- **Interfaces**
- **VPLS**
- **Network performance, SLA reports, Real-Time link status**

JUNIPER NETWORKS | NOKIA

Network Services Platform

Inventory with Nokia NSP
ActivePort is the source of truth when integrating with Nokia's inventory to: validate current status of ports (service discovery), creation of link aggregation groups (LAG) and adding ports to the LAG.

Use cases:

- **Service discovery**
- **Creation of LAG**
- **Adding ports to LAG**

NOKIA | NSP

Virtual Point to Cloud

ActivePort enabled the provisioning of layer 2 links between the physical customer network & cloud providers.

Routing use cases:
- **Layer 3 – BGP config & peering**
- **Layer 2 - VLANS & Interfaces, VPLS**
- **IPAM Mapping**

Cloud provider integrations:
- **Azure Express Route - direct and partner**
- **AWS Direct Connect – Hosted VI & Hosted connection**
- **Oracle - Fast Connect**
- **Google Cloud Platform - direct & partner interconnect**

Virtual Cloud to Cloud - Cloud Router

Linking all public clouds together using the customer's private network. Connecting Azure, AWS, Oracle & Google.

Routing use cases:
- **Layer 3 – BGP config & peering**
- **Layer 2 - VLANS & Interfaces, VPLS**
- **IPAM Mapping**

Planned Developments

Cisco NSO
Offering a Cisco alternative in addition to the existing NOKIA & Juniper. Building on existing development, ActivePort's architecture enables new providers to be easily added with minimal effort.

Use cases:
- **Layer 2 - VLANS, Interfaces & VPLS**
- **Layer 3 – BGP config & peering**
- **Network performance, SLA reports, Real-Time link status**

PCCW Global & Console Connect
ActivePort has extensive orchestration capabilities with PCCW Global & Console Connect, the customer has requested integration via API to extend their network footprint.

Use cases:
- **Provisioning a Port**
- **Adding a Layer 2 connection**