Objective

- Carrier central office as a data center: Virtualized servers connected by SDN
- “Service” as an abstraction: VMs interconnected by a virtual network
- Network functions implemented as a service
- Network function chaining implemented as a service composition

Reduce capex and opex for central office with NFV and accelerate innovation

Overview

Mobile Service
- PGW
- SGW
- CDN

Residential Service
- BNG
- CDN
- CG-NAT
- Firewall

Enterprise Service
- VPN
- WanEx
- IDS

XOS + OVX + ONOS

OpenFlow Switches

Commodity Servers & Storage

Service abstraction

Service composition

Service Controller

Service Instances (VMs, Devices)

Service VN1

Service VN2

Service VN3

The Internet

Service 1

Service 2

Service 3

VM

VM

VM

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