

CUSTOMIZED RESIDENTIAL vCPE AND vROUTER VNFS

for a Satellite Communication
Service Provider



Services: Product Engineering & Innovation, Network Transformation

OVERVIEW

Customer is a **\$500mn** Belgium based Satellite Communication Service Provider. They wanted to build Layer 3 CPE functions of Residential vCPE in the Service Provider Cloud.

CHALLENGES



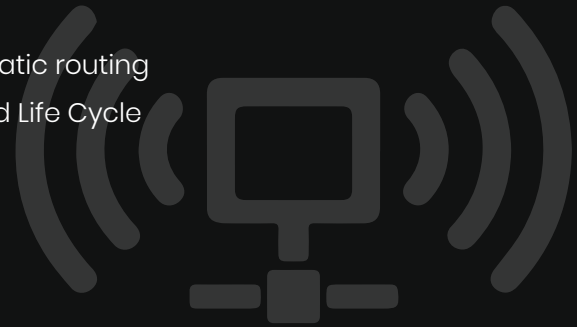
Need for replacing complex and expensive Layer 3 CPE's with simple low-cost Layer 2 CPE devices



Difficulty in enabling Service Provider to build sophisticated multitier networks within virtualized environment

SOLUTION INNOVATION

- 1 Customized vRouter with following key features**
 - › Support for IPv4 and IPv6 – Addressing, DNS, ARP, ICMP and static routing
 - › vRouter as a Docker Container. Provisioning, Deployment and Life Cycle Management of vCPE using docker and openstack
- 2 Customized Residential vCPE with following key features**
 - › RESTful API's for remote access, management
 - › Heartbeat mechanism to monitor health of instances



OUTCOMES



1500+
vCPE instances on a single HW platform



100+
vRouter instances on a single HW platform



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