

# DEPLOYMENT AND ORCHESTRATION OF vEPG FOR 5G NETWORK

of a Network Equipment Manufacturer



**Services:** Product Engineering & Innovation, Professional Services, 5G

## OVERVIEW

Customer is a **\$7bn** Swedish Multinational Networking and Telecommunications Service Provider. As the users were expecting high speed and uninterrupted mobile services, customer wanted to virtualize EPG platform for Higher Performance.

## CHALLENGES



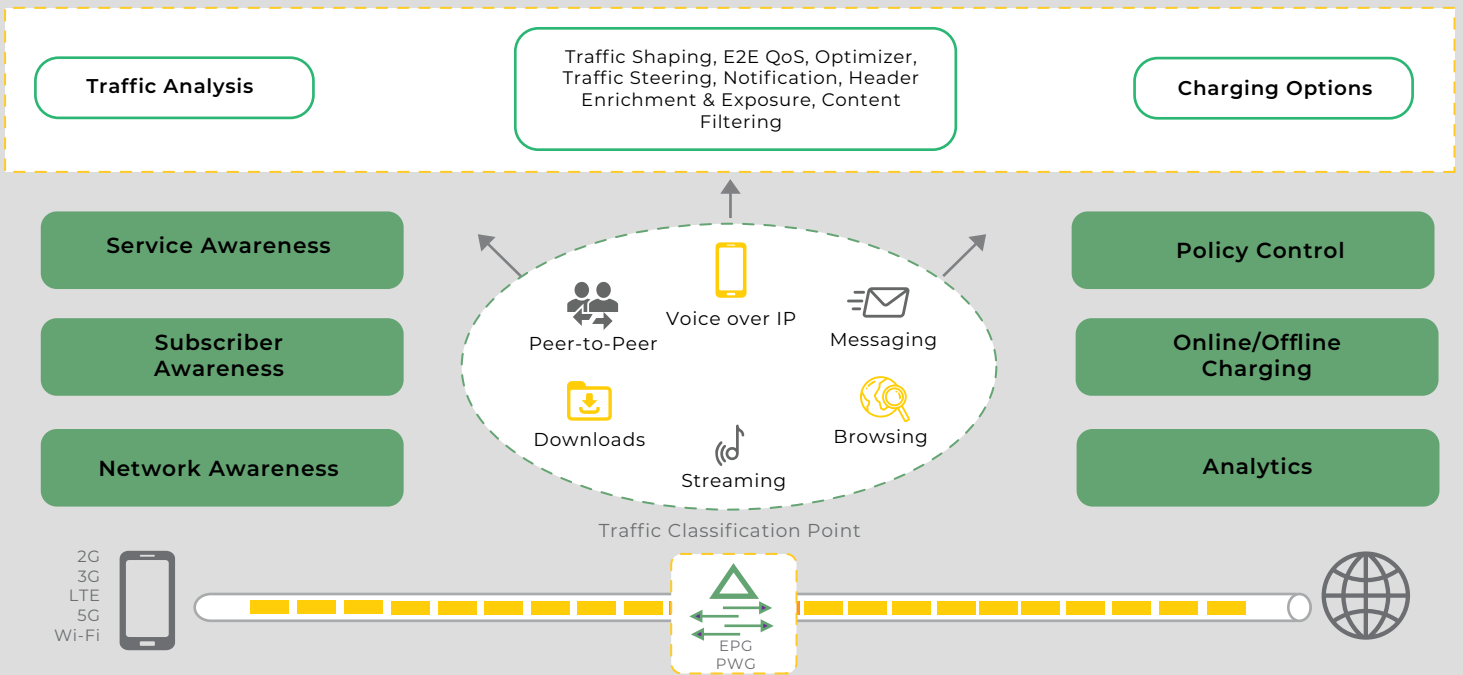
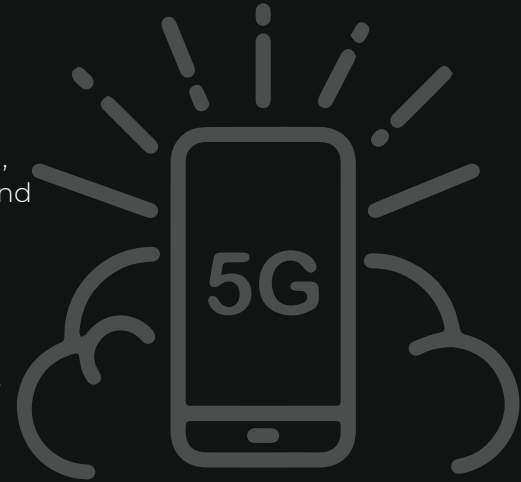
Inability to meet the Mobile Users expectations of high speed & always available network



Need for Performance Optimization and Orchestration layer for better End-User Experience

## SOLUTION

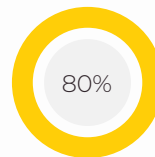
- 1 Build:** Development Module in BCAT (Box & Cloud Automation Tools), Ingress Optimization for uplink and downlink traffic in vEPG, Backend development and enablement of CNIO for VIRTIO, Backend Database development for stateless, resilient EPG/PCG user plane application
- 2 Deploy:** Deployment of fully redundant vEPG. Orchestration, Deployment and System Tests development of test cases on vEPG. Deployment & Verification of PCG (containerized solution, Packet Core Gateway)



## OUTCOMES



**90%**  
Increase in User Experience and Operational Flexibility



**80%**  
Faster Deployment of vEPG in a Fully Redundant Environment



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