EDGE CLOUD PLATFORM AND ORCHESTRATION SOFTWARE DEVELOPMENT

for a multinational networking and telecommunications service provider

Services: Edge Cloud

OVERVIEW

Customer is a $50 billion Swedish multinational networking and telecommunications company.

Customer wanted to improve business logic and workflow creation for 5G service deployment.
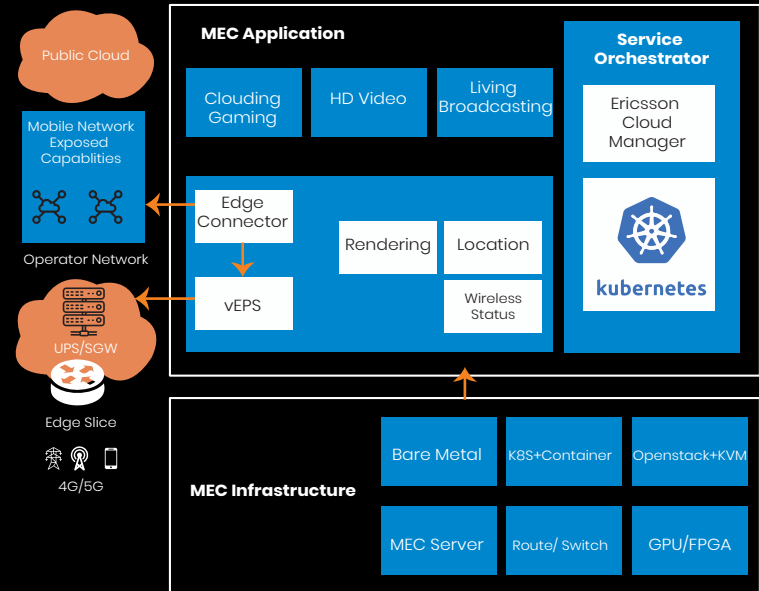
CHALLENGES

Need for Edge cloud Orchestrator that supports service deployment, service creation and workflows execution of business logic

Need for a high performance platform software required to host these workflows

SOLUTION

1. Development of Plugins for Ericsson Cloud manager and integrated it as a Service Orchestrator

2. Development of Redis open source database for stateless, resilient EPG/PCG user plane application design for in-memory optimization

3. Created HOT files for orchestrating the node using BCAT files

4. Provided Micro services based Database for both EPG and PCG products

5. Development of Orchestration modules for vEPG and supported large scale deployments

MEC Application diagram

Public Cloud

Mobile Network Exposed Capablities

Operator Network

UPS/SGW

Edge Slice

4G/5G

MEC Application
- Clouding Gaming
- HD Video
- Living Broadcasting
- Edge Connector
- Rendering
- Location
- vEPS
- Wireless Status

Service Orchestrator
- Ericsson Cloud Manager
- kubernetes

MEC Infrastructure
- Bare Metal
- K8S+Container
- Openstack+KVM
- MEC Server
- Route/ Switch
- GPU/FPGA

OUTCOMES

› Enhanced business logic execution by deployment of Micro services based architecture

› Improved multivendor environment management by developing edge cloud orchestrator

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