

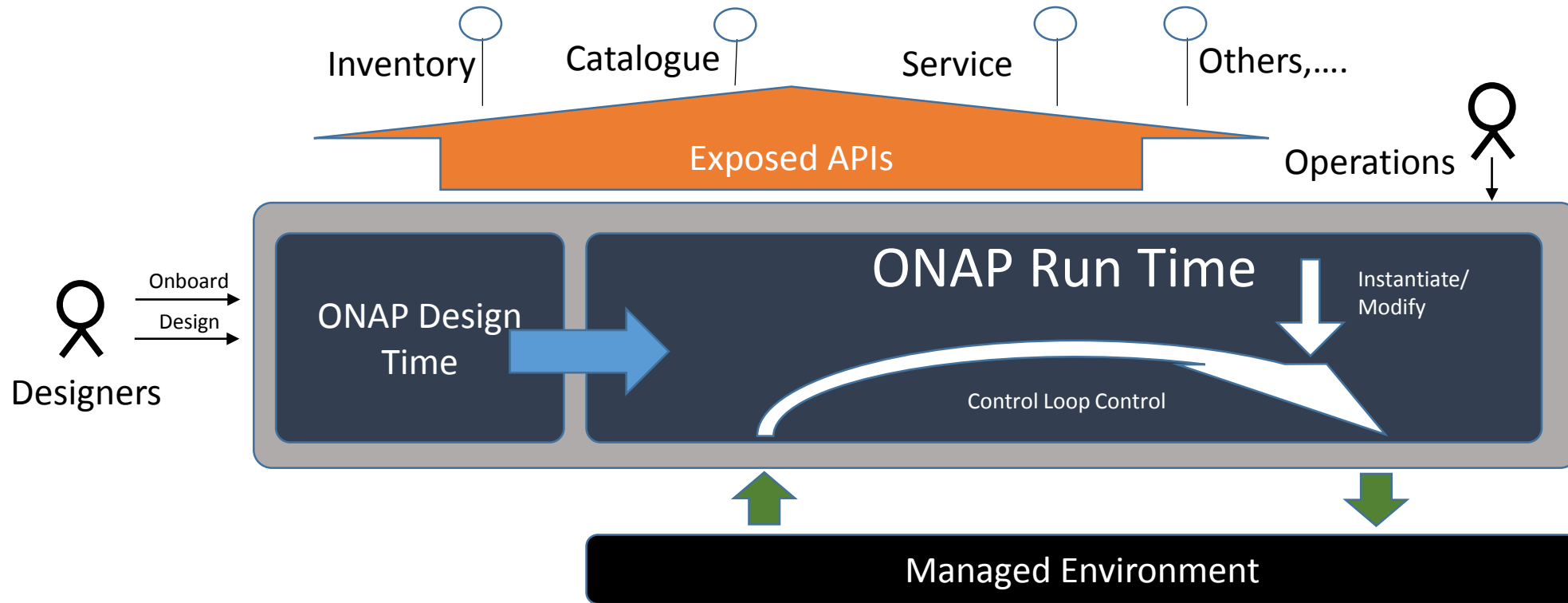


ONAP 5G Use cases and Network Slicing Demo

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Ericsson MNEA OSS portfolio manager

Introduction



ONAP provides an automation platform for managing services and resources throughout their entire life cycle.

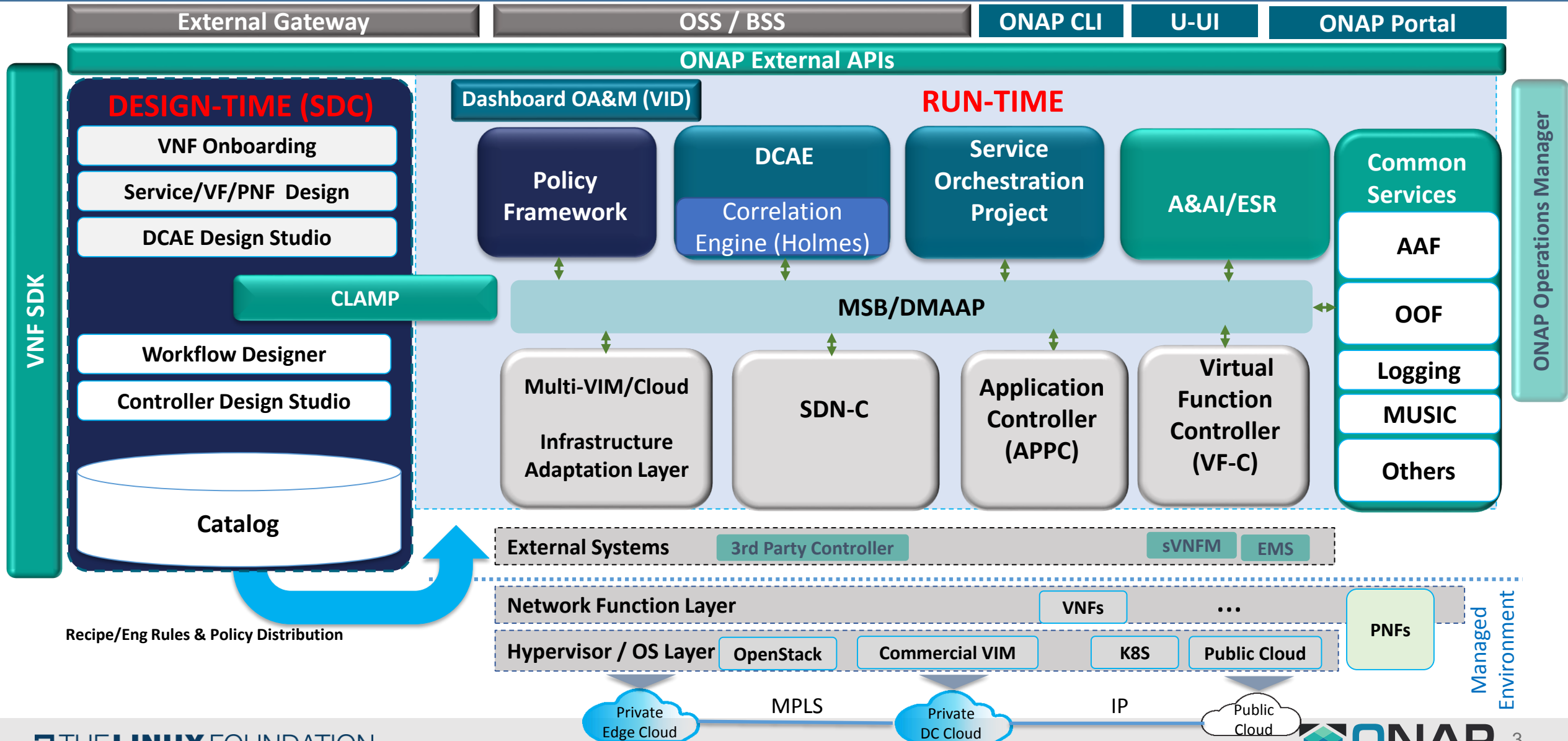
It provides a reference functional architecture

It provides a reference Component Definition & Interfaces

It provides reference source code

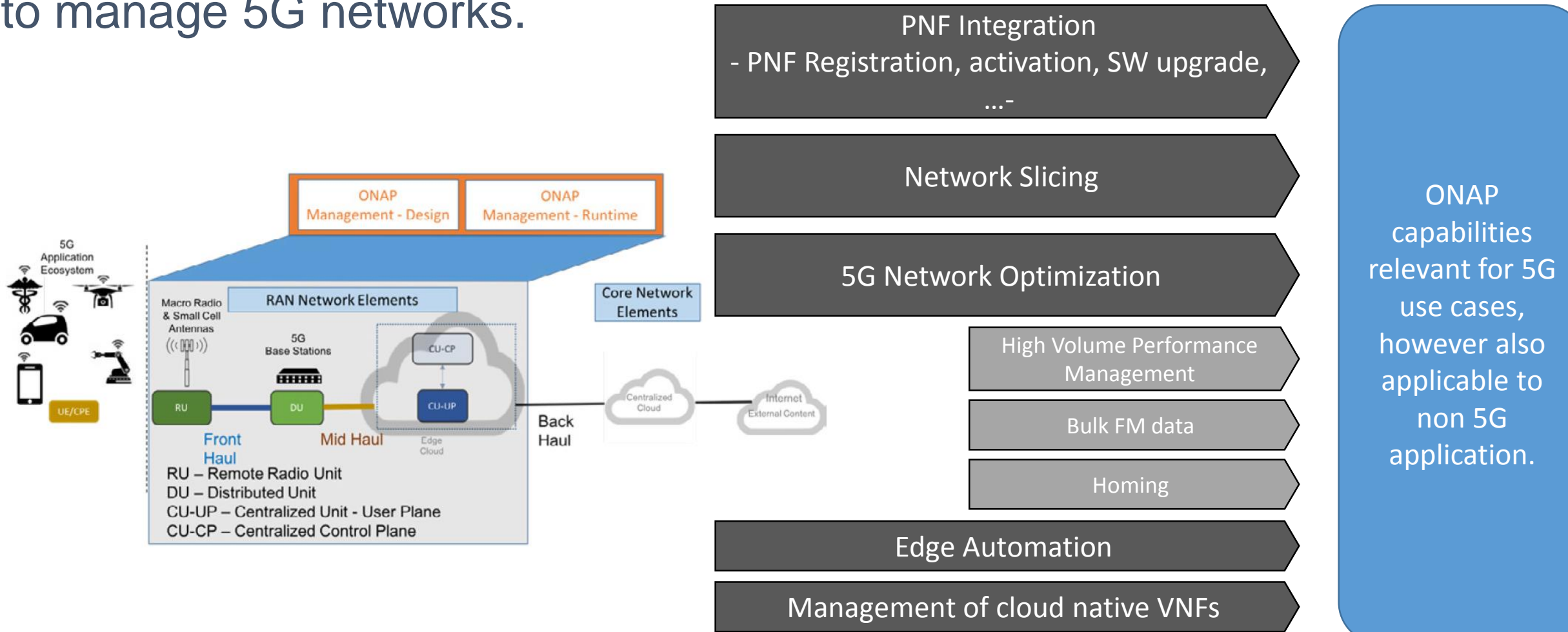
It provides requirements on the managed V/P NFs

The Architecture



5G UseCase/BluePrints

As an automation platform ONAP is evolving to support the capabilities to manage 5G networks.



Today we have a demo Video of ONAP Network Slicing

- Joint Collaboration with ATT and Ericsson
- Illustrates establishing network slices with two different quality of experience
- The demo uses real radio.
- Leverages the ONAP allocated resource concept for the equipment that is shared between slices.



Network Slicing with ONAP LCM PoC

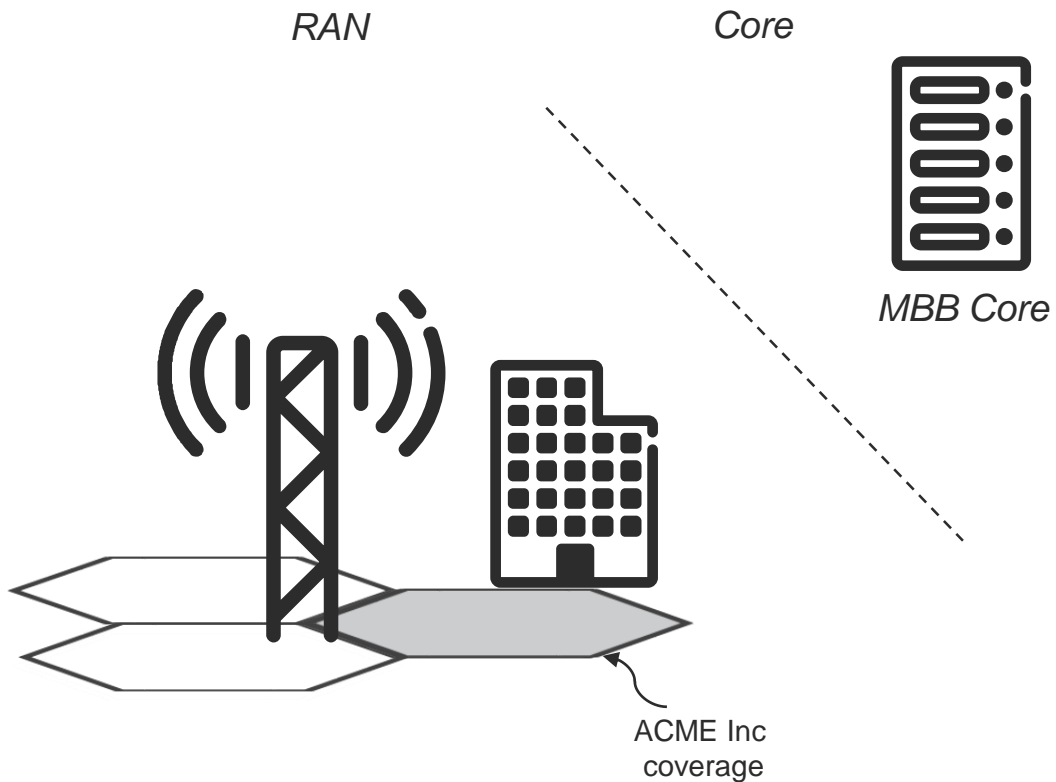
A world's first!

ONAP based Network Slicing PoC

Enterprise use case



ACME, Inc. wants to provide 2 levels of Guaranteed Bandwidth (GB) MBB service for their employees at their premises in addition to the current Best Effort (BE) mobile service it's employees currently receive.



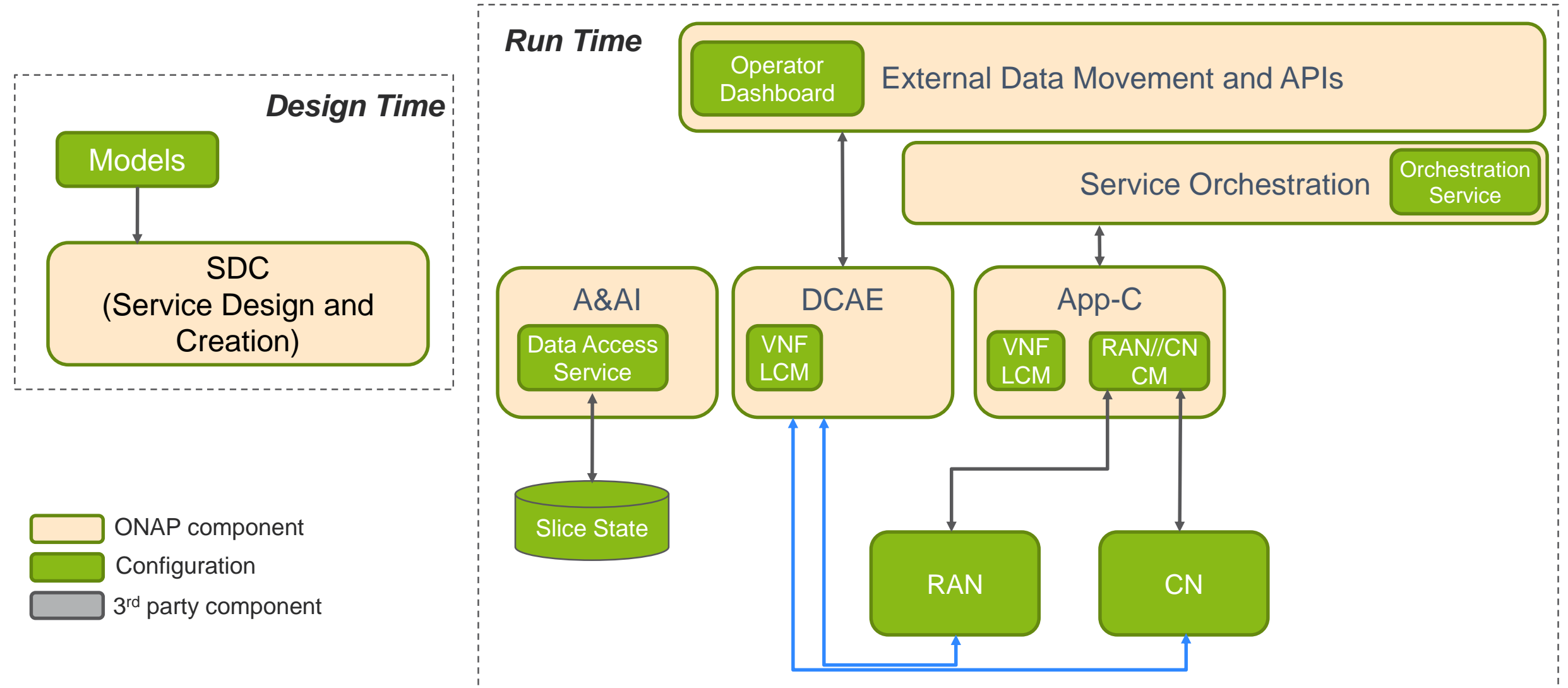
Activation & Modification

- Activate platinum level GB MBB service at the ACME, Inc. head office
- Create the new service Core (the vEPG)
- Modify existing elements including the Core vMME and the serving RBS
- Repeat b & c for the silver level Guaranteed Bandwidth MBB service

Note: A MBB service for other users (i.e., non ACME, Inc. employees) will already exist as a precondition to this PoC.

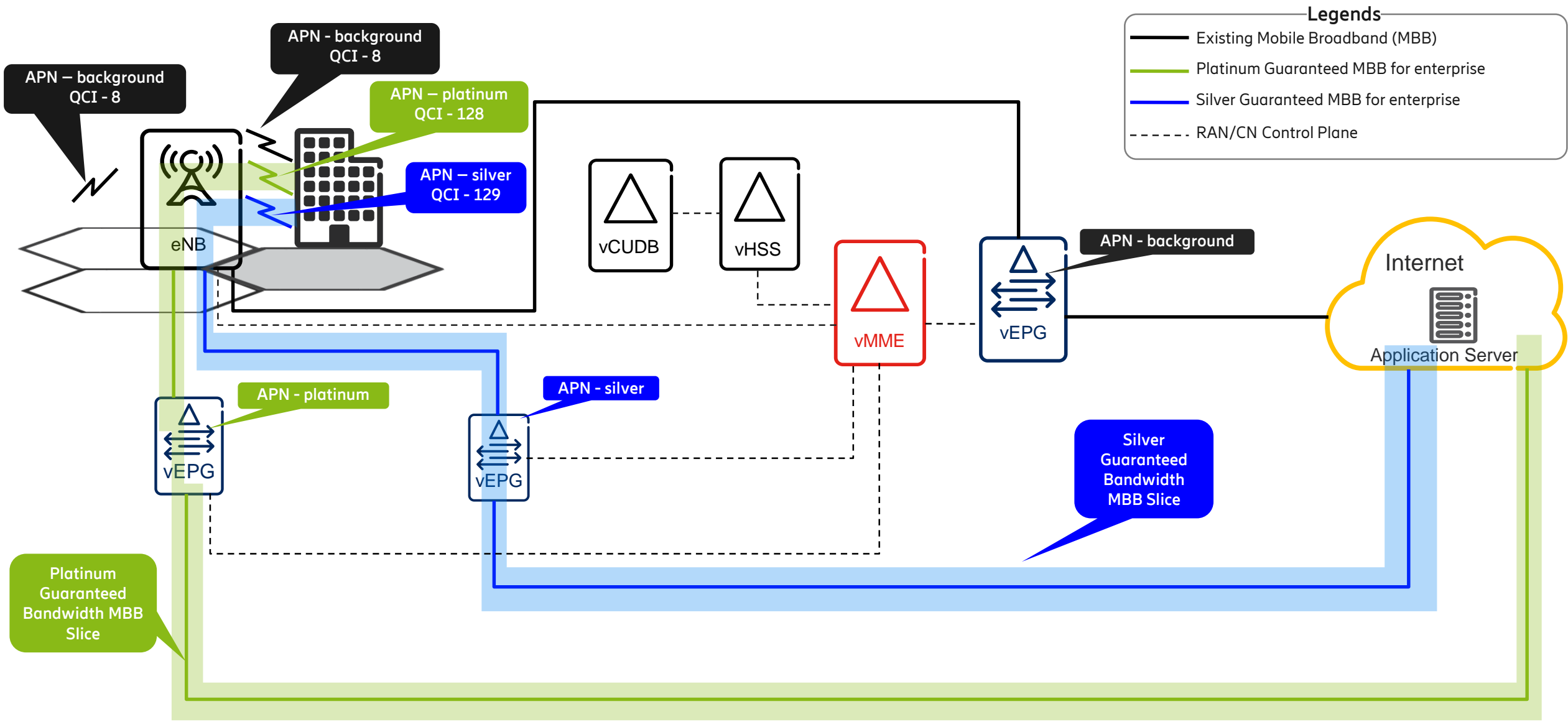
ONAP based Network Slicing PoC

ONAP Architecture



ONAP based Network Slicing PoC

Network Architecture



AT&T Atlanta Lab Setup

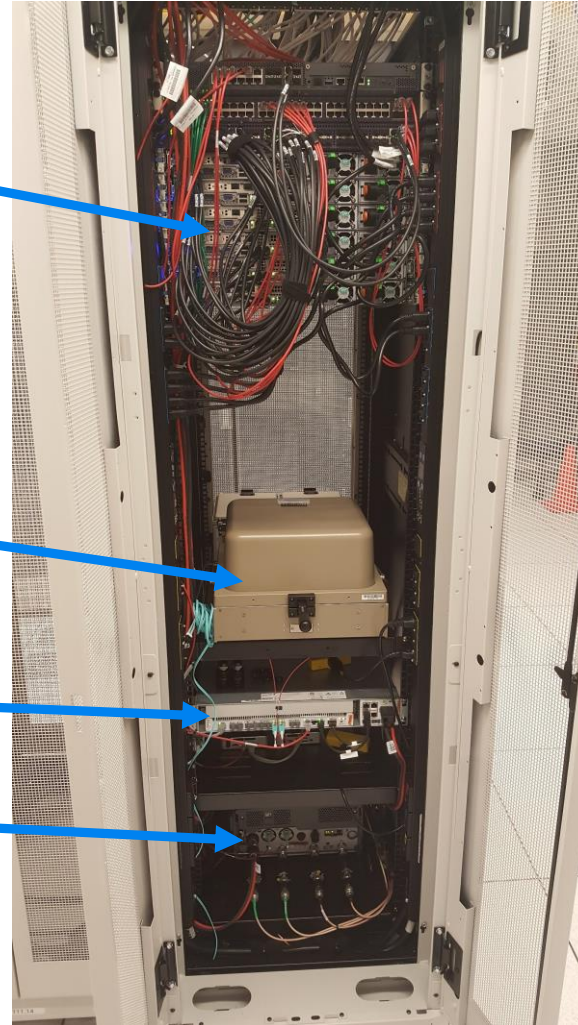


Remote demo execution user



Windows Server

Galaxy S9s connected via Android USB for remote control



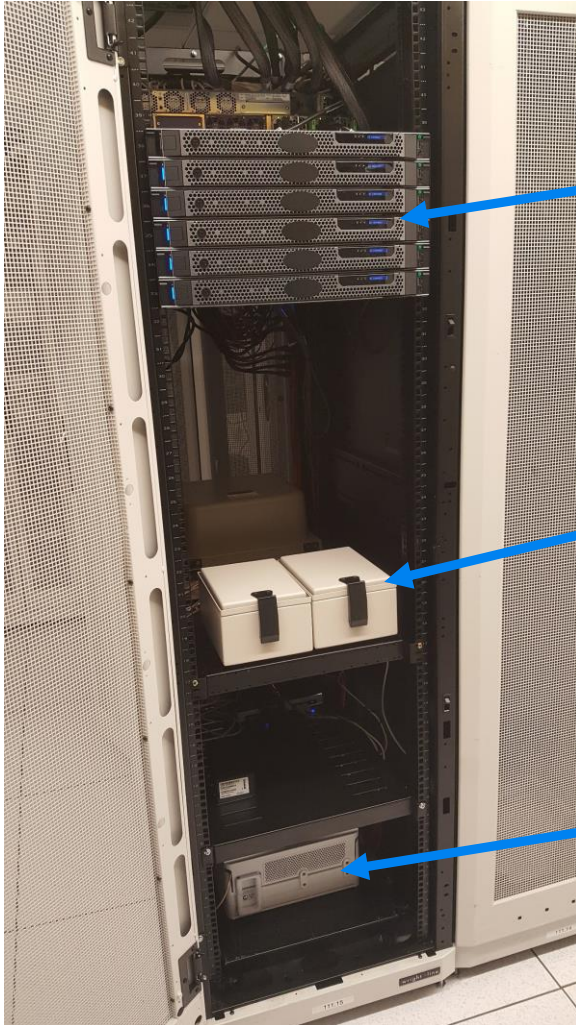
Back Cabinet View

6 Dell R640's hosting ONAP & the Packet Core

4 Samsung S9's inside 3 test chambers

1 RBS6601

1 Radio 4415



Front Cabinet View



Network Slicing with ONAP LCM PoC

A world's first!



ONAP

OPEN NETWORK AUTOMATION PLATFORM