- Offers network slicing, massive network capacity, more reliability
- Enables various new use cases never thought of before including eMBB, URLLC, MIoT
- Disaggregates NFs and enables cloud native deployment on virtualized infrastructure
- 5G with Open-RAN reduces latency and improves user experience by moving resources to the RAN edge
- Promises higher reliability, availability, and scalability

How prepared are we for 5G deployments?

- Provides Compute, Network, and Storage resources for applications geographically close to the end-users
- Enables high-bandwidth, low-latency access to services, and reduces network congestion
- Reduces operational costs by avoiding requirements of expensive data centers
- 5G with MEC promises the kind of connectivity that can power the autonomous services of the future

Is our validation environment flexible to handle MEC deployment diversity?

Rebaca

Integrated MEC Deployment in 5G Network

- **MEC hosts** are deployed on the edge
- The **User Plane Function (UPF)** takes care of the user plane traffic of the targeted MEC application
- The **MEC management System,** orchestrating the operation may decide dynamically where to deploy the MEC application components

Deployment Options

- **MEC** and the **local UPF** co-located with the **Base Station**
- **MEC** collocated with a **transmission node**, possibly with a local **UPF**
- **MEC** and the **local UPF** co-located with a network aggregation point
- **MEC** collocated with the **Core Network functions**

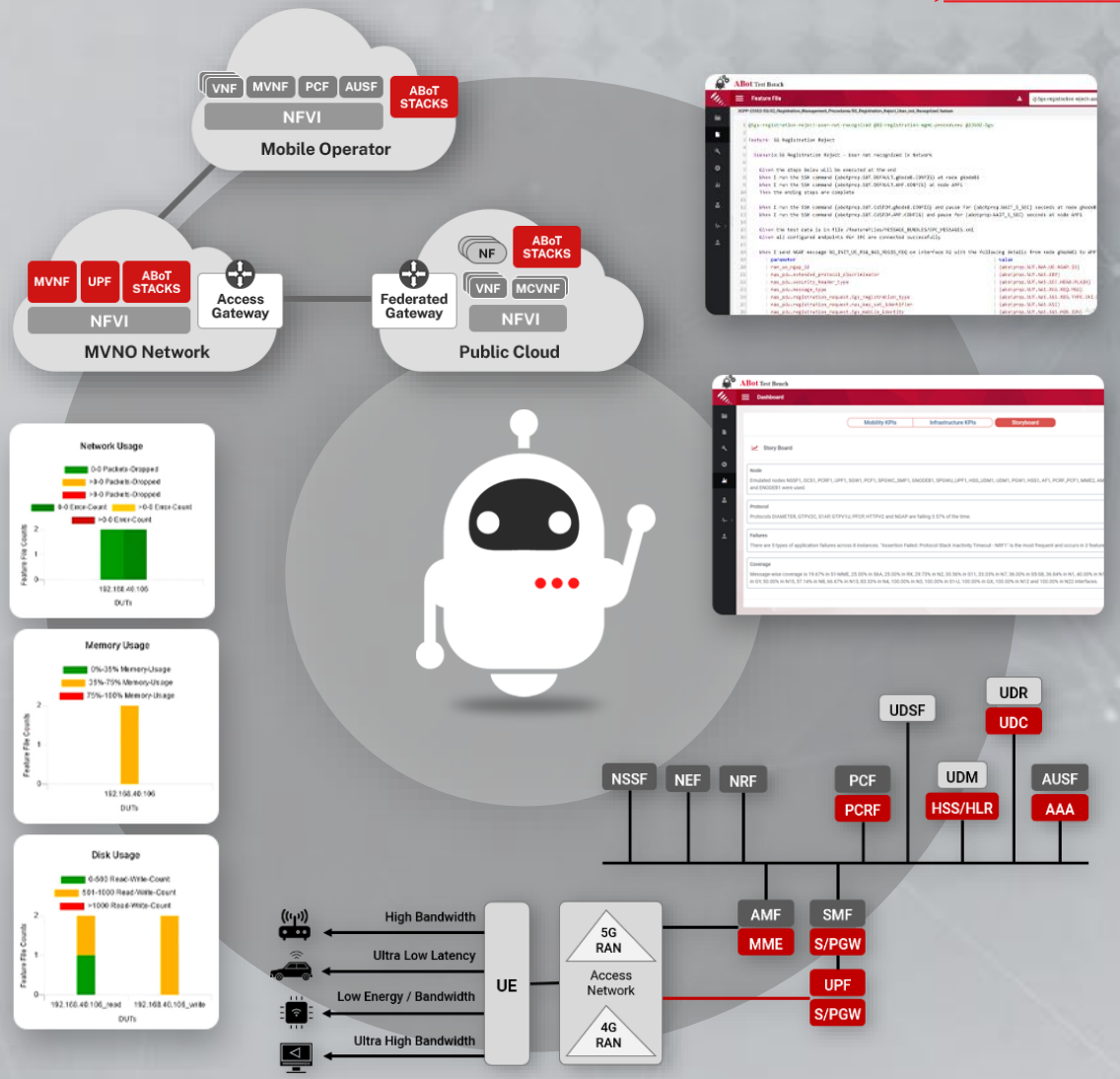
Challenges of MEC and 5G Testing

- **Use case driven testing strategy** to Identify and rapidly validate a solution for an industry
- **Automation** is mandatory to Configure, Deploy, Turn up, Monitor, and Maintain different locations of MEC
- **Support for testing Dynamic Network Slicing** against different types of traffic is mandatory
- **Service Assurance and Management tools** are required to operate and maintain such a diverse network
- **A DevOps based approach** to continuously Integrate, Test, Analyze, and Deploy is a must for MEC and 5G

ABot for 5G-MEC Deployment

- **Cloud native infrastructure & light weight stacks**
- Extensive REST support enables continuous **Integration, Testing and Deployment**
- **User friendly Test Cases with ML based test result processing and RCA**
- Validation against **various resolution video traffic**
- **Distributed Architecture of the test framework** conducive to validate various 5G-MEC exemplary reference solutions
- **Analysis of Mobility and infrastructure KPIs correlated** with executed test cases to understand the behavior of the 5G-MEC platform.
- **Traffic characteristics modeling** using the analysis generated from different use case based feature files
- **Security threat detection** by analyzing traffic characteristics anomaly against real time data

[Learn more about ABot]



Rebaca is a niche player in the Telecom and OTT streaming video domain

- We specialize in the development of automation solutions in the Mobility domain
- Fortune 500 OEM vendors use automation solutions developed by us
- We have deployment experience with the world's leading telecom operators and system integrators

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