



CREATING
THE LIVING NETWORK.
TOGETHER.

Cloud-Native in 5G

Vision and contributions

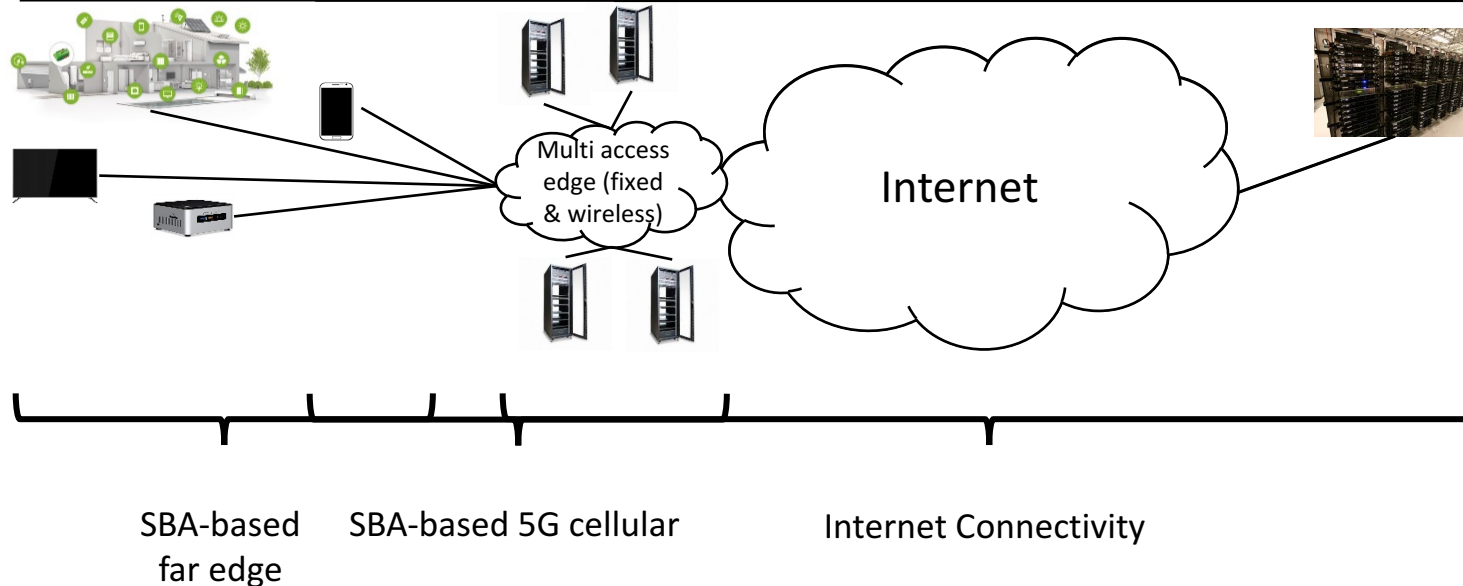
Micro-Services From Far-Edge to Distant Cloud

Where IT Meets Telecom

Anything-as-a-Service (new interactive, immersive experiences, localized where possible)

Service-based architecture across all edge and the Internet

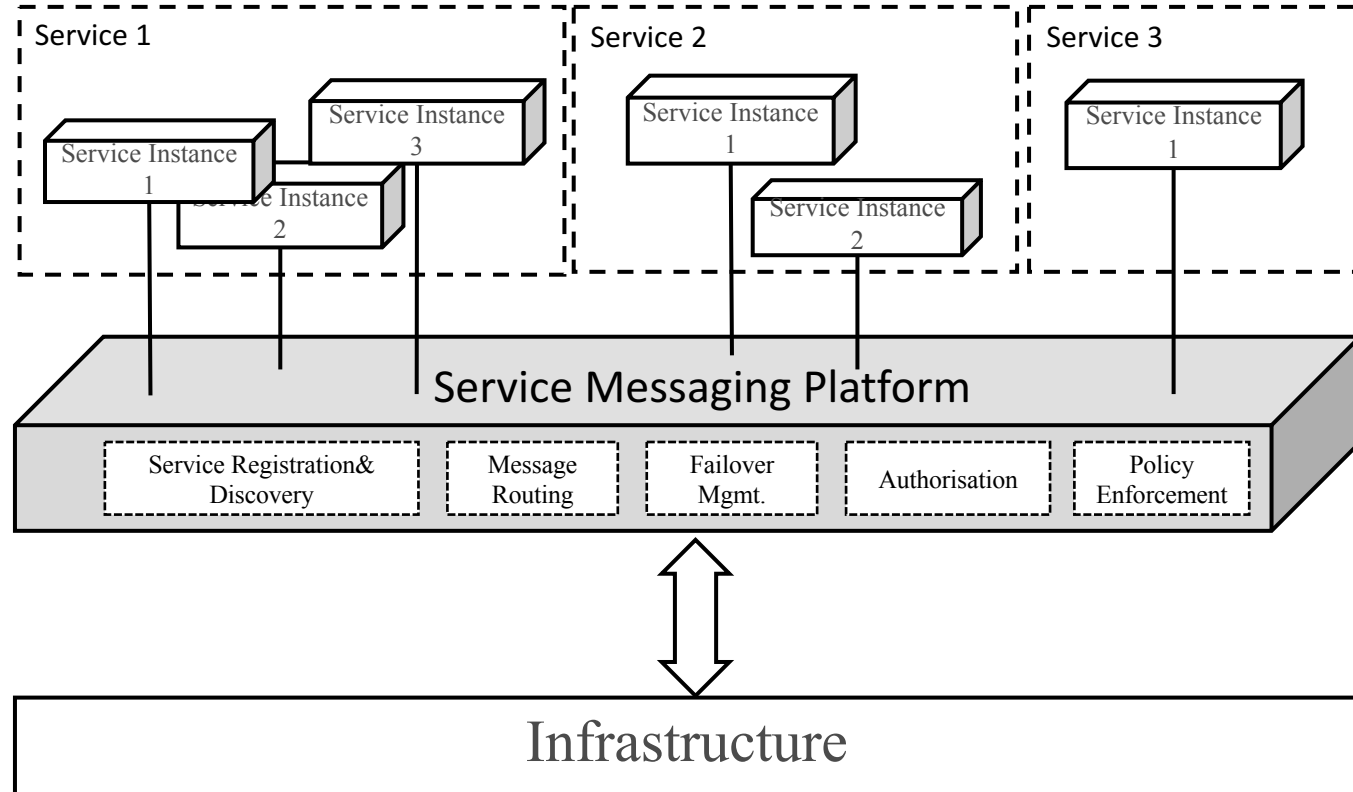
Well-proven Internet technology, such as web services, HTTP, IP, ... mixed with virtualization technology



Cloud-Native Operator Environments

As Pursued in 3GPP & NGMN

- Micro-service vision with anything-as-a-service
- Efficient service message routing
- Regional data centres with SD-WAN transport



Our Contribution to This Area



INTERDIGITAL.

InterDigital SBA Platform

Grounded into Ongoing Rel16 Work but Pushing the Vision Beyond (5G)

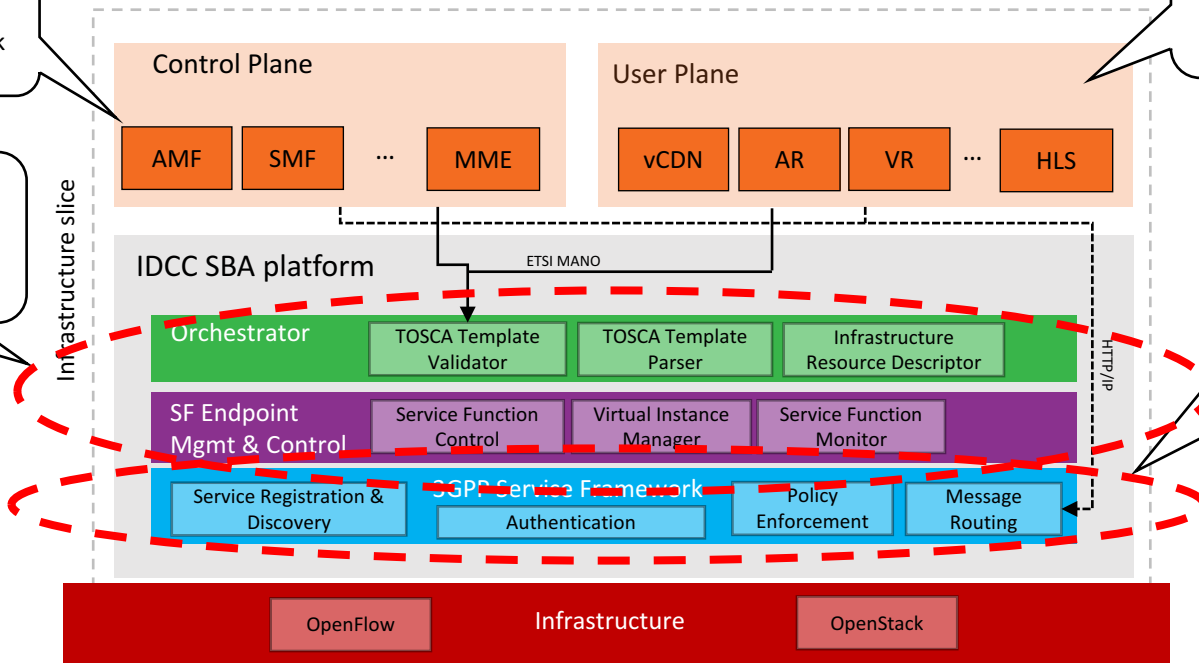
InterDigital 3GPP Compliant SBA Development Platform

Current focus of the enhanced Service-Based Architecture (eSBA) work in Release 16

Integration with lifecycle management for distributed data centres turns SBA into an operator platform!

While UPF interfaces might be included in Rel. 16, a full SBA-based 5G core & RAN is unlikely to happen before Rel. 17

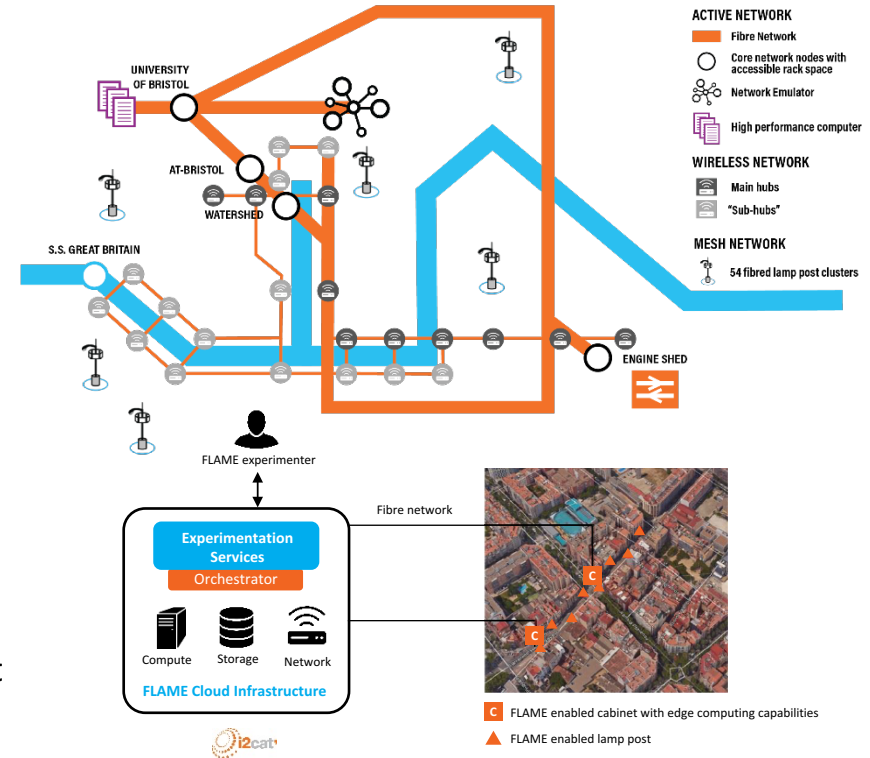
The so-called service framework is to provide the service message routing capabilities for SBA with implementations left for vendors!



Validation through Urban Scale Trials & Experiments



- Validate platform capabilities by trials conducted by ecosystem partners
 - 5 operator infrastructures
 - 25+ customer trials
- New media formats (AR, VR, 360) and distribution channels
- Engagement with media service providers, content providers, infrastructure operators and beyond
- Trials will be conducted in 3 waves from January 2019 to June 2020
- Public funding available through H2020 FLAME project



An Early Glance on That Vision

MWC 2019 Demo Preview



INTERDIGITAL.

Storyboard

Bob's tired of watching on his terminal and moves the display to the large screen TV in his room



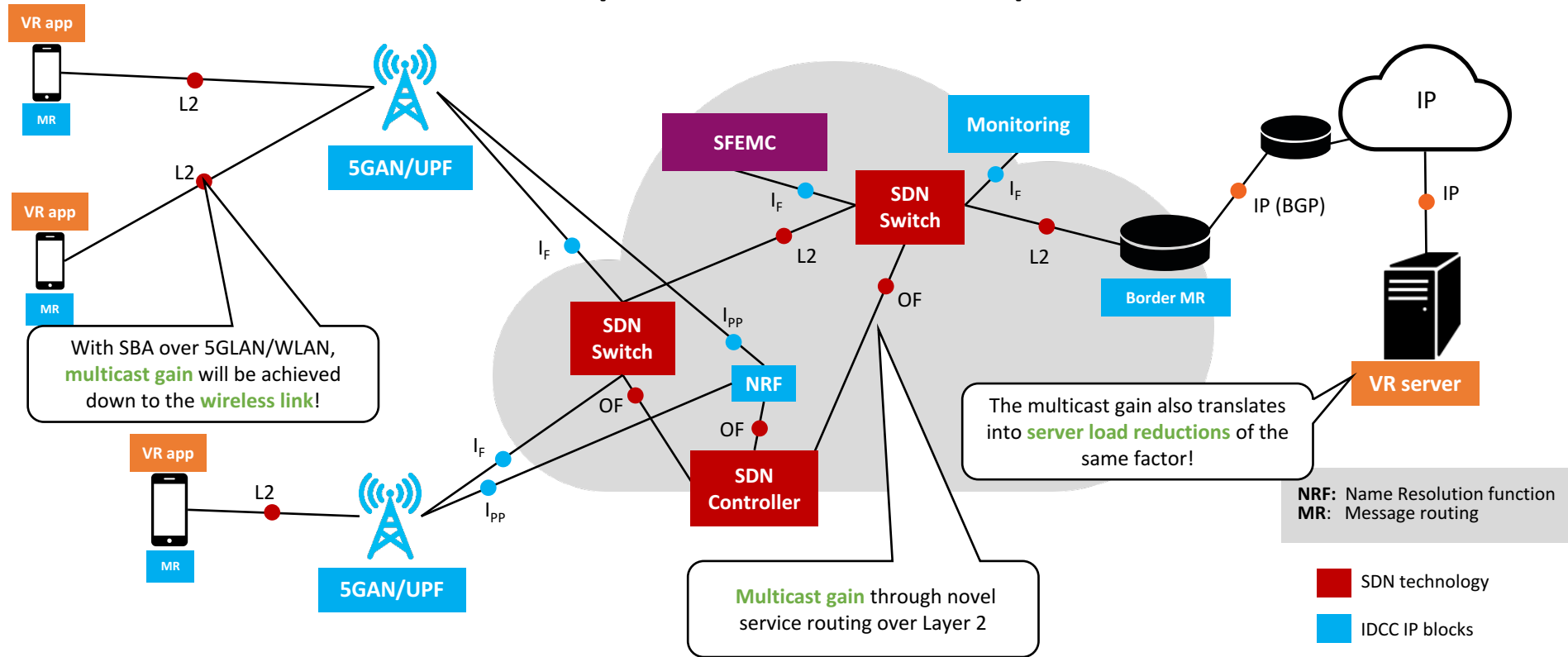
Hotel



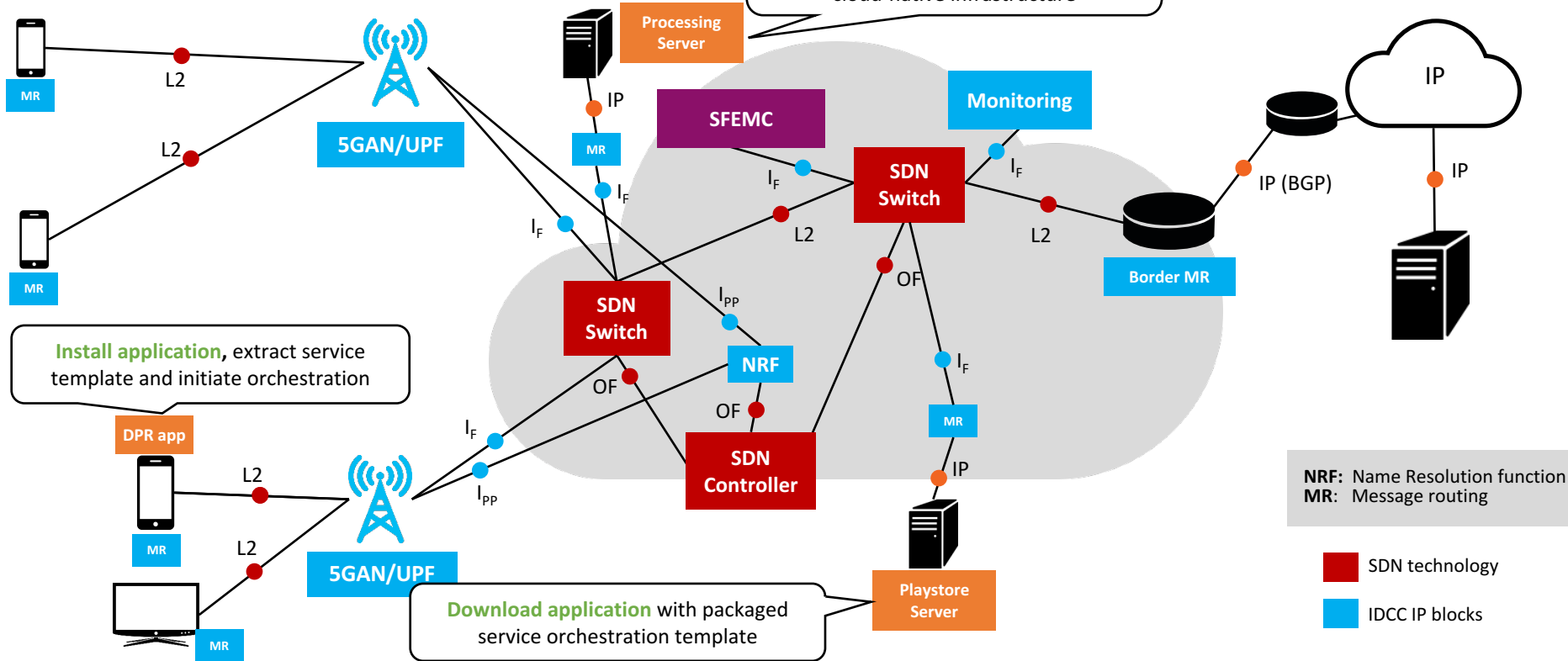
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Demo Aspect 1: Multicast Gains Through Novel Service Routing

...Down to the Radio Link to Improve Terminal-centric Experiences



Demo Aspect 2: Boot Your Own Service From Your Smartphone



Demo Aspect 3: Extend the Smartphone Centric Experience Towards new User Interactions

P process deployed previously is now being used.

