



Different Challenges in 5G Rollout...







Market Acceleration



New Complexity



All Things to All Users

PROPRIETARY AND CONFIDENT

Where best to focus....

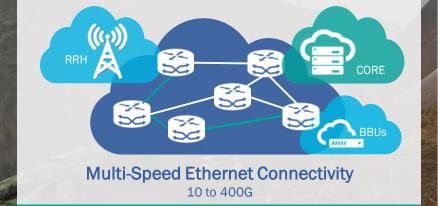


Simplify 5G



OTA & Conducted New test techniques | Reduced test variants & costs Massive MIMO Beamforming Sub 6GHz → mmWave

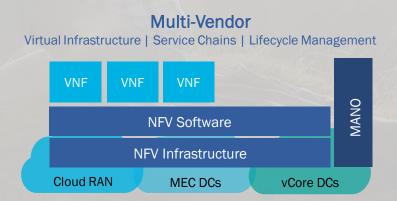
5G Radio



5G Front & Backhaul

Accelerate 5G

5G Core



5G NFVi

Assure 5G ✓

Perceived User Experience
Throughput | Latency | vMOS



5G User Experience



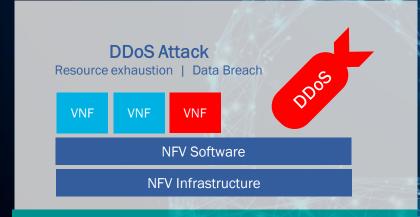
Performance

Location Accuracy | Handover | Audio & Video Quality

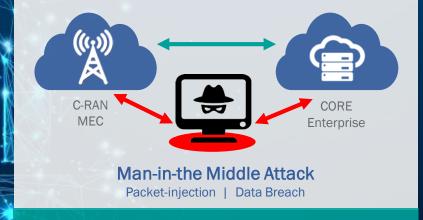
5G Devices

5G exacerbates Security risks

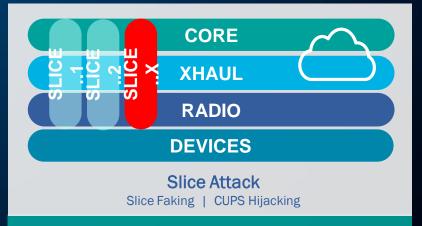








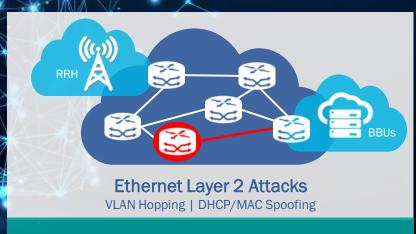
Edge Distribution Attacks



Network Slice Attacks



IoT Attacks

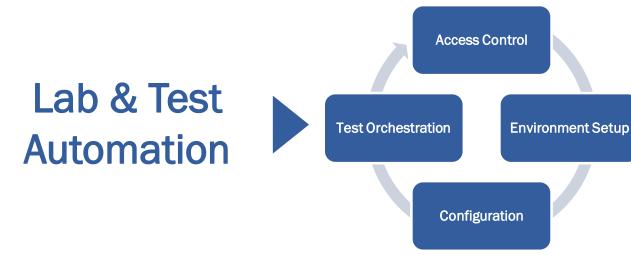


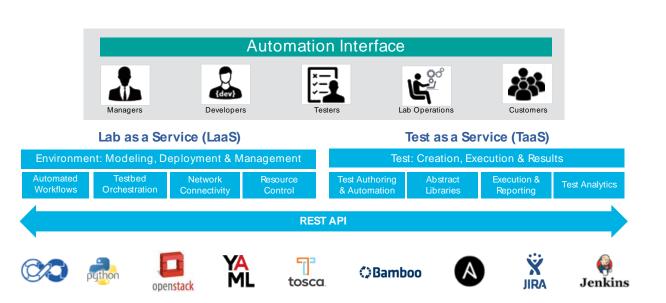
Ethernet Fronthaul Attacks



Security Gateway Attacks

Automate to Accelerate







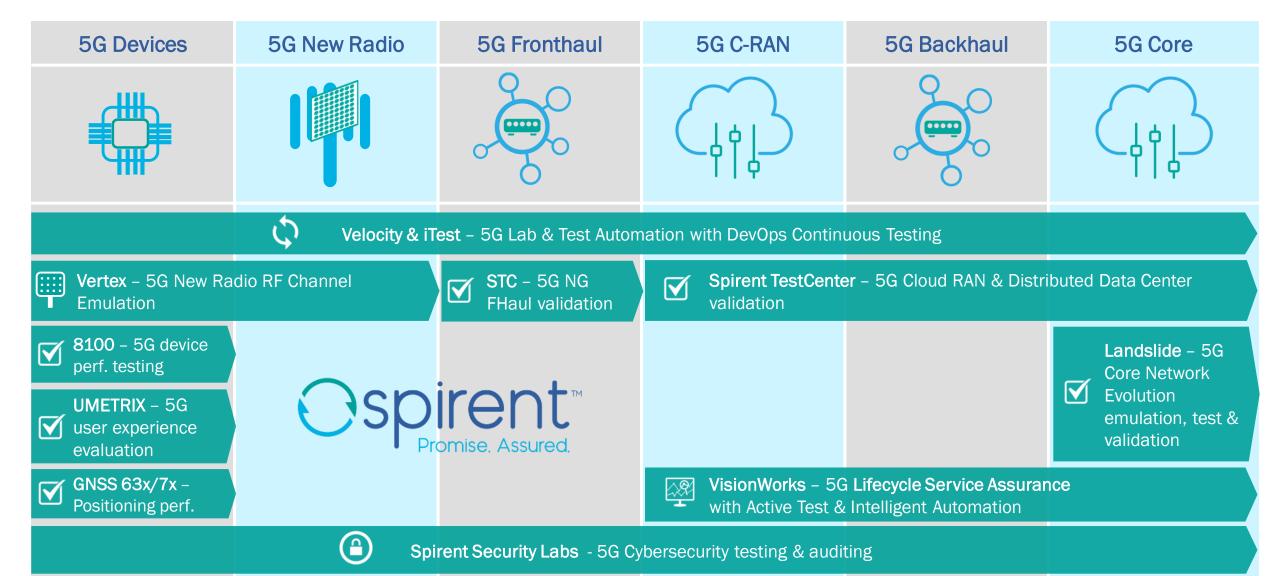


Automation of 5G labs

- Accelerates 5G product lifecycle
- Reduces costs
- Maximizes resource utilization
- Reduces setup times
- Increases collaboration

Spirent 5G Portfolio



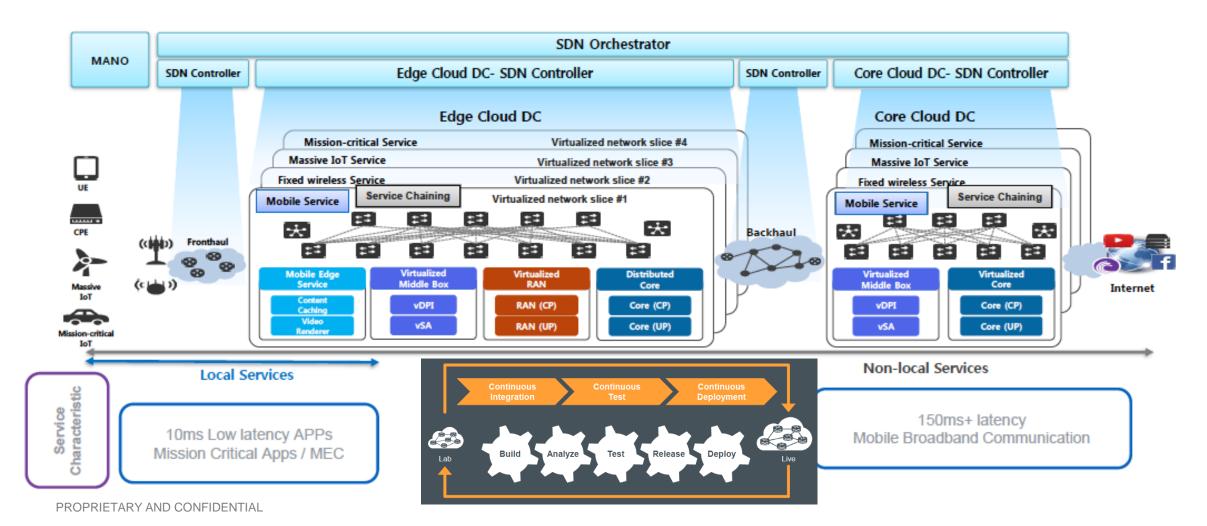


PROPRIETARY AND CONFIDENTIAL 7

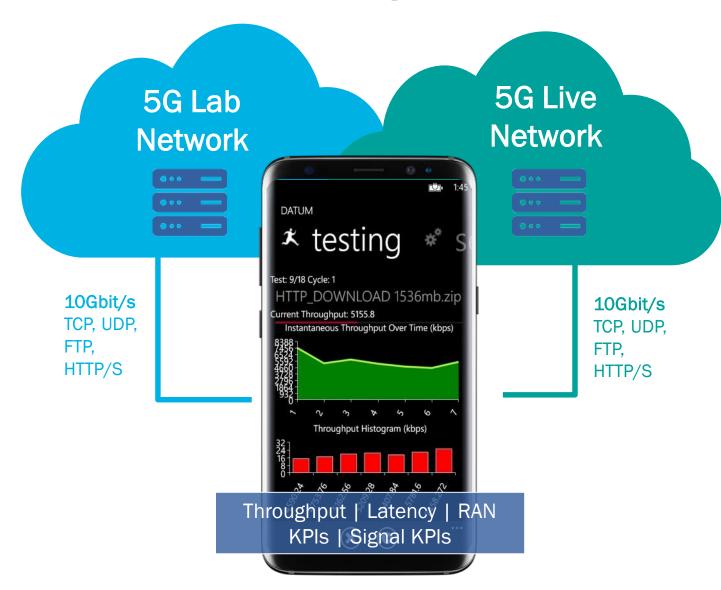
Spirent's Service Delivery



- Distributed Secure Converged Core Network Slicing end-to-end including the Edge Cloud
- Automated Infra/Network/App/Services Management of NFV through integrated MANO & SDN
- Support of DevOps / Micro Services/Cloud Native to achieve Agility for Faster Service Delivery
- Zero-Touch turn-up/turn-down of NFV Cloud Life Cycle Management.



Best 5G User Experience





Measure what maters the most



the **User Experience**

5G Consumer Survey (Qualcomm):

85% want faster connectivity

48% want lightning fast browsing

37% want to download content 10x faster

27% want better quality video calls

Our Customers



Develop

)perate

Wireless & Positioning Device Manufacturers













HI•T∧RGET.IR





OHALCOWW.

htc



Panasonic

Network Equipment Manufacturers Illulia

















Network Operators





verizon /

😂 at&t











COX















Enterprises & Governments























