

MWC 2018 REVIEW

By Rebaca Technologies



Glimpse of a better future with mobile

Once again the crowds at Barcelona return home with stars in their eyes and promises of 5G, AI, IoT, connected homes, autonomous vehicles pasted into their hearts.

This year we witnessed the evolution of 5G connectivity and how it will change the way we interact with the world. Although there are several challenges that still need to be taken care of before 5G deployments can take shape, there is buzz that all that may very well be taken care of by the end of 2018. This year at MWC we saw several companies signing 5G deals like Huawei, Nokia, China Mobile etc. We witnessed the launch of many end-to-end 5G products and promises of many more over the next few months. Read below to glance over the 5G highlights of this year's MWC .

Click the link below for the [Mobile World Live](#) coverage during the event.

Glimpse of a better future with mobile

At a panel discussion at MWC 2018, Andre Fuetche, CTO of AT&T Labs discusses 5G as an alternative to WiFi for enterprise networks emphasizing on low latency and better security. SDN and NFV pave the road to 5G which gives AT&T a competitive edge in the market. Their goal is to virtualize 65% of their network by 2018 and 75% by 2020. 5G will drastically reduce costs for the adoption of IoT in the industry.

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With 3GPP setting the network standards, MWC saw 5G become a reality than just box diagrams. John Lennox VP of Oracle's Policy Management Solutions says Oracle is easing in to 5G. He believes that although there are compelling use cases emerging, for 5G deployment to actualize components like network slicing, multi-VNF interoperability validation and container-enhanced deployments will first have to be taken care of.

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Intel plans on unleashing the next generation experience through connected homes and rich media content. With 5G's fast speed and low latency Intel will transform 360-degree video and virtual reality. At their booth, they showcased their plan to install in-home 5G connectivity by passing a mmWave signal through window glass. This overcomes the challenge of a CPE with high costs of deployment.

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AT&T announces that they would rollout 5G services in 12 markets and enable hundreds of metros with their 5G Evolution technology. Due their focus on edge computing and network virtualization AT&T is already ahead of the curve. All geared up for 5G deployments, they have successfully acquired FiberTower and have signed 5G deals with several vendors. Armored with SDN and edge computing AT&T is positive that they will introduce a lot of unique use cases and business models and even industries.

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Nokia signs a 5G deal with China Mobile on the eve of Mobile World Congress 2018. The world awaits to see what this would mean for the future of connected vehicles and smart cities. China Mobile will be leveraging its ONAP initiative with Nokia's 5G Future X Network architecture and incorporate automation. Nokia has acquired Unium to use their mesh wireless networking technology for in-home WiFi solutions.

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Huawei CEO Ken Hu announced that they signed the 5G MoUs deal with 45 operators in Asia, Europe and North America. Huawei is committed to developing a 5G ecosystem for consumers to reap the benefits of a truly connected world. Hu says that it won't be long before we see positive growth for 5G deployments, even as early as end-2018.

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In spite of challenges like cost, scalability and simplification of services and devices NB-IoT and LTE-M technologies will soon take the front line in 2018. Vodafone and China Mobile believe that the future of mobile IoT rests on collaboration. As long as the services are customized for the customer's needs future network rollouts will drive growth in this area.

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China Mobile, who has been at the fore front of 4G network penetration with over 450 mil subscribers, is weary of the unknown challenges that are imminent in the upcoming industrial revolution. As an operator they feel the pressure to constantly keep up with the demands for IoT and high speed network. Shang Bing their chairman shares their plan of a full commercial launch of 5G in 2020. 5G will not only build a smart society but also create new business models.

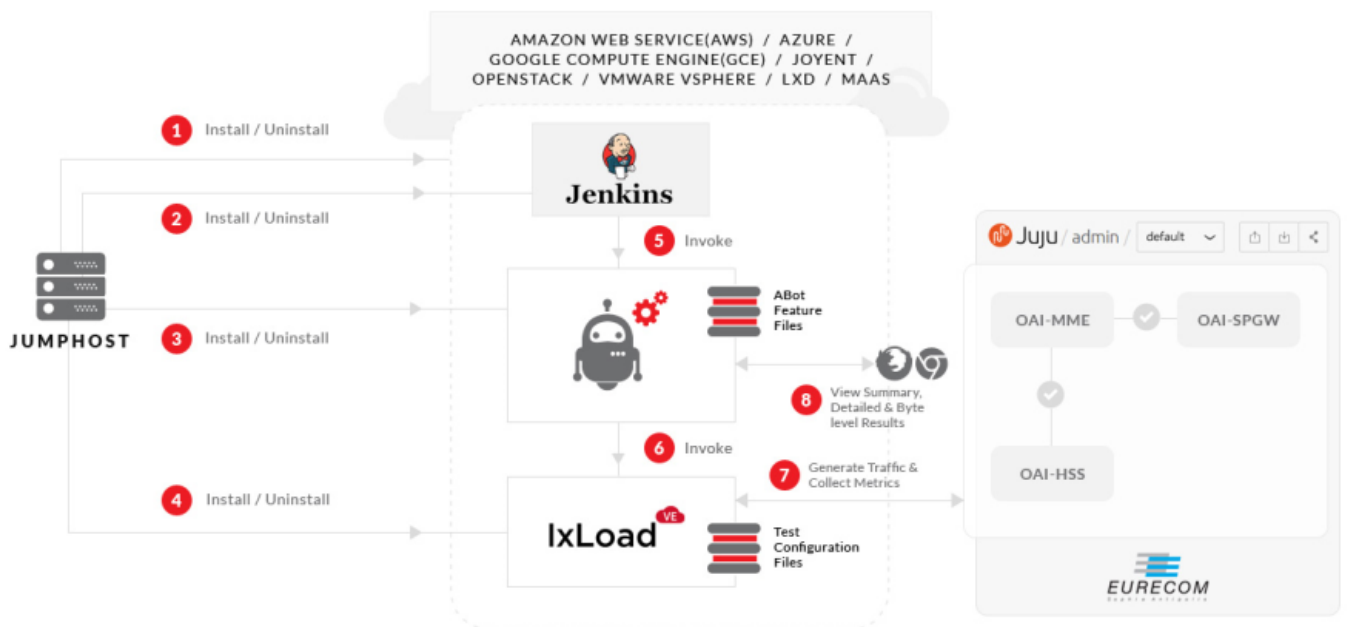
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Samsung demonstrated many of their 5G services which are already at the commercialization stage. Samsung strode into MWC claiming to optimize 5G technology all by itself with their chipsets, devices and equipment. With promises of safer autonomous cars, immersive 4K video and 5G mobile telecommunications, President Youngky Kim shares their goal of exceeding the market share by 20%.

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Here is what we showcased at MWC ...

Rebeca Technologies along with Ixia, showcased their joint solution at the China Mobile, Novonet Initiative booth. China Mobile is using the Ixia-Rebeca solution for defining and automating VoLTE component (e.g., vEPC, vIMS) and service testing. Executing VoLTE network service validation is easy and fast with test parameters and KPIs that are easily modified using ABot or Jenkins. Additionally, test results can be quickly inspected and explored using the VoLTE service validation dashboard. With Rebeca's ABot test orchestration framework and Ixia's IxLoad® Wireless Virtual Edition (VE) network tester, MNOs have an easy-to-learn, easy-to-use, and effective virtual test bench for verifying mobile core components and validating VoLTE network services.



The ABot Test Orchestration solution addresses this pain point as follows:

- ✓ Enables Service Providers and OEMs to define validation scenarios based on a user-friendly **Domain Specific Language (DSL)** and schedule their execution through any **CI engine such as Jenkins**.
- ✓ Integrates with sophisticated **traffic generation tools** such as **Ixia IxLoad VE** to provide an easy-to-use virtualized test bench enabling rapid verification of network services such as VoLTE on NFV Infrastructure.
- ✓ Includes a repository of well-defined test scenarios that can serve as **ready-to-use templates** for repeated executions in multiple locations and across multiple deployments. This drastically **reduces the time for validating VoLTE services** on virtualized infrastructure.
- ✓ Incorporates an **intuitive web-based UI** that provides a graphical summary of the test results; both for holistic as well as the detailed view.