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Keysight at MWC Barcelona 2023

MWC Team
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Accelerate 5G, Shape 6G Innovations

Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best wireless communications experiences. Empower your device and chipset, increase network intelligence, improve energy efficiency and shape the 6G future, now. Keysight accelerates innovation with the end-to-end portfolio of precise measurement and software-driven insights that reduce risk and speed time-to-market.

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Keysight MWC23 Booth Demo Themes and Workstations

Prototype 6G Digital Twin

This demo will use the power consumption model as a proof of concept of what is needed to make high-fidelity twins for analyzing energy efficiency. It also demonstrates the full potential of Keysight's network modeling solution as part of the 6G SANDBOX project.

Boost IoT with 5G RedCap

RedCap (Reduced Capability) 5G is a new category of mid performance 5G device. This demo shows how to automate advanced security testing and improve the robustness of wireless devices and network with Keysight's IoT security solution and the new 5G network emulator optimize for RedCap testing.

Emulate Non-Terrestrial 5G

Combining NTN gNB emulation (UXM) and NTN UE emulation (UeSIM), under satellite emulation scenarios (PROPSIM), Keysight's NTN test bed can apply timing and doppler pre-compensation, use extended HARQ, and measure device-under-test BLER and throughput.

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Test Metaverse Devices

We'll use Eggplant Intelligent Automation to test an 5G *Hololens* Augmented reality (AR)/Virtual reality (VR) device user interface (UI) and user experience (UX). In this demo, the device will be connected to a UXM 5G wireless test platform to test applications scenarios with Functional Test Application (FTA).

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Evolve V2X Communications

In this demo, we'll show how to run RF and protocol tests to OBU and RSU certification for DSRC. With UXM 5G wireless test platform and WaveBee tool chain, we'll create a complex scenario and congestion testing for C-V2X.

Optimize Energy Efficiency

Energy efficiency is one of operators' highest priorities, caused by increasing electricity prices, sustainability concerns and traffic growth. Optimizing energy consumption without impacting end-user experience requires cross-domain energy and performance KPIs, coupled with energy saving mechanisms and intelligent control from RAN to Core.

4

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Manage O-RAN Massive MIMO

This demo introduces Keysight's new wrap-around test solution for O-RAN Massive MIMO & MIMO Radio Unit testing. We'll show how to test instantly downlink and uplink, Single User and Multi-User, Massive MIMO RF beam shape/weight measurements or RF parametric measurements on 8TR/16TR/32TR/64TR radios.

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Test Time Sensitive Network

Time Sensitive Networks (TSN) is a set of standards specifying Ethernet-based communication. In this demo, we will show how to wirelessly control the position of a balancing ball. The objective of this demo is to explore the importance of low latency, ultra reliable communications for time-sensitive applications and how this can be enabled by 5G TSN.

Deploy & Run Private 5G

This demo showcases how to validate and diagnose 5G private networks by using a combination of Keysight's solutions such as the new Nemo Industry Probe for active monitoring of industry 4.0, FieldFox with its wide frequency and bandwidth coverage for field testing and site acceptance, and Wavejudge lite for full stack audit of the air interface.

Join Keysight at MWC Barcelona 2023

- **Please reach out to your Keysight contact to schedule a meeting or demo with our experts and executive team who will be in attendance at MWC.**

- We look forward to connecting with you soon at MWC Barcelona.

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