PRISMA Telecom Testing delivers world's first 3CC with 4x4 MIMO and 4CC with 256-QAM for LTE-A

Milan, ITALY - February 19, 2016 - PRISMA Telecom Testing, a leading supplier of load testing solutions, has successfully completed the world’s first RF tests for LTE FDD three component carrier aggregation (3CC) in the downlink, including 4x4 MIMO, and FDD four component carrier aggregation (4CC) using the 256-QAM modulation feature. Carrier Aggregation is a key feature of 4G LTE-Advanced and enables operators to increase download or upload data speeds by adding LTE spectrum blocks ('component carriers') together to create a wider aggregated data pipe. The impact for LTE subscribers is enhanced data rate speeds and an improved quality of experience when consuming bandwidth-intensive services such as HD video streaming. All tests have been successfully completed and will be presented at the MWC 2016 in Barcelona in conjunction with test and measurement specialist Rohde & Schwarz.

At the MWC, PRISMA will showcase UeSIM, its award-winning multi-terminal radio interface simulation system, both in the 3CC test setup with 4x4 MIMO and in the 4CC test setup with 256-QAM. Equipped with two SDRv3 and one eLSU units terminating the traffic, UeSIM sustains a downlink data rate of 900/800 Mbps. UeSIM is also ready to support Release 12 five component carrier aggregation (5CC) with 256-QAM, for the emulation of devices up to Category 16.

“LTE-A promises a wireless broadband experience that can rival cable broadband in terms of bandwidth and speed. However, absolutely central to delivering on this is component carrier aggregation,” said Sergio Troni, PRISMA Telecom Testing CEO. “By testing, for the very first time in the world, 3CC aggregation with 4x4 MIMO and 4CC with 256-QAM, PRISMA has broken new ground for the industry and the LTE-A user experience.”

PRISMA's unique multi-terminal and multi-standard radio testing solutions accelerate multi-standard end-2-end network verification by generating IP traffic load from real applications running on thousands of concurrent mobiles operating real voice and data sessions. UeSIM is a complete solution for all LTE/LTE-Advanced/LTE-Advanced Pro testing needs and allows multi-terminal testing over the whole LTE spectrum. The available features support Carrier Aggregation (up to 5 carriers) over any FDD/TDD 3GPP band, Logical Cells configuration, eMBMS, VoLTE, 2x2/4x4 MIMO (with CA), IoT and more. Both RF and optical CPRI interfaces are supported. All configurations are fully scalable to test any eNodeB configuration, regardless of size.

At the Mobile World Congress, the 3CC 4x4 MIMO test setup will be on display at the Rohde & Schwarz booth 6C40. At booth 6G41, PRISMA Telecom Testing will showcase a downlink four component carrier aggregation (4CC) test scenario using the 3GPP Rel.12 256-QAM modulation feature. 256-QAM enhances the 600 Mbps 3GPP Rel-10 (64-QAM modulation) throughput to 800 Mbps.
About PRISMA Telecom Testing

PRISMA Telecom Testing is a leading provider of innovative scalable load & stress test and monitoring solutions for 2G, 3G and 4G Mobile Networks, both over the wired and the radio interfaces. The largest Mobile Infrastructure Vendors and Service Providers worldwide can rely on PRISMA for complete RAN testing. PRISMA's solutions based on SDR allow the evaluation of GSM, WCDMA and LTE Radio Interfaces with the same hardware platform. PRISMA Telecom Testing is a subsidiary of PRISMA Engineering, active since 1986 in this field. PRISMA is headquartered in Milan, Italy, with offices and partners across Europe, Asia and the Americas.

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