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New *iGR* white paper discusses testing methodologies necessary for 5G NR mobile networks

Supported by InfoVista, the white paper also provides a discussion of testing methodologies specific to hybrid LTE/5G networks

AUSTIN, Texas, June 26th, 2018 – 5G is coming – fixed wireless this year and mobile 5G next. Some of the first 5G New Radio (NR) networks will operate in the millimeter wave (mmWave) band – 28 GHz, specifically. Although they will be fixed wireless networks initially, some will migrate to 3GPP Release 15 which will enable operators to offer mobile 5G NR services both in mmWave and in the sub-6 GHz bands.

New Radio has two versions that are both introduced in Rel-15: Non standalone (NSA) and Standalone (SA). Many of the radio characteristics of NR, as compared to LTE, are different and will require different, new tests. For example, NR deployments in 28 GHz will use Massive MIMO antennas that form directed beams of radio energy to multiple different devices at the same time. As a result, some of the factors that will need to be tested and monitored include: Initial access, beam tracking, beam sweeping, beam measurement and beam determination.

iGR, a market research consultancy focused on the wireless and mobile industry, has written a white paper that focuses on testing 5G networks – not the trials many operators are conducting around the world – but the day-to-day testing of the network to ensure that it delivers as effectively on day one as on day five hundred and one.

“Focused testing solutions for 5G NR testing are needed,” said Iain Gillott, president and founder of *iGR*. “Initially, mobile network operators will have to simultaneously test, monitor and tune two networks (sub-6GHz LTE and mmWave 5G) individually and also test the interactions among those different radio access networks (RANs) and radio access technologies (RATs).”

iGR's new white paper, [Testing 5G's Mettle](#), describes the methodologies used to test 5G networks and how these differ from those used today for LTE. It also discusses 5G NR, plans for its deployment and expected new use cases.

The following key questions are addressed in the new white paper:

- When is 5G expected to be deployed?

- How are operators expected to evolve from LTE to 5G NR? What are their options?
- How will Non Standalone 5G NR be deployed?
- What new 5G use cases have been identified?
- How will mobile operators test 5G, especially in hybrid LTE/5G networks?
- What specific Massive MIMO testing will be needed?
- What network performance measurement and analytics products does InfoVista offer for 5G testing?

The new white paper can be [downloaded](#) at no charge directly from *iGR*'s website. Alternatively, contact Iain Gillott at (512) 263-5682 or email for additional details.

About *iGR*

iGR is a market strategy consultancy focused on the wireless and mobile communications industry. Founded by Iain Gillott, one of the wireless industry's leading analysts, in late 2000 as *iGillottResearch*, *iGR* is now in its eighteenth year of operation. *iGR* continuously researches emerging and existent technologies, technology industries, and consumer markets. We use our detailed research to offer a range of services to help companies improve their position in the marketplace, clearly define their future direction, and ultimately improve their bottom line.

iGR researches a range of wireless and mobile products and technologies, including: MEC; smartphones; tablets; mobile wearable devices; connected cars; mobile applications; bandwidth demand and use; small cell and het-net architectures; mobile EPC and RAN virtualization; DAS; 5G; LTE; VoLTE; 5G NR; IMS; NFC; GSM/GPRS/UMTS/HSPA; CDMA 1x/EV-DO; iDEN; SIP; macro-, pico- and femtocells; mobile backhaul; WiFi and WiFi offload; and SIM and UICC.

A more complete profile of the company can be found at www.igr-inc.com.