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New iGR white paper discusses the historical evolution of the cell site and the next evolution to 5G

Sponsored by CommScope, the white paper also discusses the use of MEC and CRAN architectures

AUSTIN, Texas, October 11th, 2016 – Over the past four decades, cellular systems have evolved considerably but they are all built on the same basic components: subscriber/user devices; wireless/cellular licensed spectrum; cell sites which have antennas, radios, baseband units, and power supplies; connections that provide the wired links between the cell site radio equipment and the rest of the network; and a mobile core (Evolved Packet Core).

As the subscriber base continues to grow strongly around the world, it is clear to the wireless industry that the next evolution of networks is required – 5G. The main driver of this evolution is the ever-increasing demand for mobile data capacity.

iGR, a market research consultancy focused on the wireless and mobile industry, believes that four fundamental changes will change the basic architecture of the mobile networks in the next few years: massive densification with more small cells, the evolution of the RAN to CRAN, the deployment of mobile edge computing (MEC) solutions at the edge of the network, and the creation of a “network of networks.”

“Subscribers today access everything from email and social networking, to streaming both long-form and short-form video, to downloading apps and playing games, and the resulting demand on mobile networks has increased significantly.” said Iain Gillott, president and founder of iGR. “The move to 5G will result in fundamental changes to the architecture of the mobile networks – changes that are necessary to address this rising demand.”

In its most recent white paper, [The Evolution of the Cell Site: Moving to CRAN](#), iGR discusses the historical evolution of cell sites from 2G to 4G and how the mobile network will continue to evolve to 5G.

The following key questions are addressed in the white paper:

- What are the basic components of the cellular mobile network?

- How were analog and 2G cell sites architected?
- How has the use of mobile data impacted 3G and 4G networks?
- What challenges are being faced today by the wireless industry?
- How will cell sites continue to evolve to 5G?

iGR's new white paper, [The Evolution of the Cell Site: Moving to CRAN](#), can be downloaded at no charge directly from *iGR's* website.

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 sixteenth 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: 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; LTE; VoLTE; 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.

About CommScope

CommScope (NASDAQ: COMM) helps companies around the world design, build and manage their wired and wireless networks. Our vast portfolio of network infrastructure includes some of the world's most robust and innovative wireless and fiber optic solutions. Our talented and experienced global team is driven to help customers increase bandwidth; maximize existing capacity; improve network performance and availability; increase energy efficiency; and simplify technology migration. You will find our solutions in the largest buildings, venues and outdoor spaces; in data centers and buildings of all shapes, sizes and complexity; at wireless cell sites; in telecom central offices and cable head ends; in FTTx deployments; and in airports, trains, and tunnels. Vital networks around the world run on CommScope solutions.