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New *iGR* study forecasts deployments of outdoor and indoor DAS in the U.S.

Study also discusses how DAS architectures are expected to change in a 5G network

AUSTIN, Texas, July 19th, 2018 – Distributed Antenna Systems (DAS) began years ago with passive systems, donor antennas and coaxial cable. Today's DAS may look a bit different – with remote units, fiber, maybe even a CPRI connection or a small cell as the radio source, but the function is unchanged: to provide coverage inside a building (iDAS) or in an outdoor area (oDAS).

iGR, a market research consultancy focused on the wireless and mobile industry, believes that DAS, both indoor and outdoor, will continue to have a role in the 5G world. However, just as the architecture of radio access networks (RANs) will change as operators move from LTE to 5G, so too will DAS change.

In a 5G world, indoor DAS will perform the same function – provide coverage and capacity indoors – but the RF source and the processing will no longer be in the building. Outdoor DAS is already getting supplanted by what is now called Distributed RAN (DRAN) which is, simply, baseband processing at a centralized location, such as a central office or macrocell site. Eventually, DRAN will get supplanted by Cloud RAN (CRAN).

Additional indoor and outdoor DAS are expected to be deployed in the U.S. in the next five years, and *iGR* has recently published a new market study that forecasts the number of oDAS and iDAS for both commercial buildings and residential buildings.

"DAS will continue to be an effective solution for providing additional mobile coverage both indoors and outdoors," said Iain Gillott, president and founder of *iGR*. "However, the commercial building segment is where we believe most of the DAS deployments will occur over the next five years."

iGR's new market study, [**U.S. Outdoor and Indoor DAS Forecast, 2017 – 2022: DAS in a Soon-to-Be 5G World**](#), provides a five-year forecast for the number of DAS nodes and systems to be deployed in the U.S. The forecast further divides the indoor DAS market into commercial buildings and residential buildings (multiple dwelling units or MDUs). Additionally, the study details various

types of DAS and other small cell technologies and the benefits and issues surrounding their deployment.

The following key questions are addressed in the new market study:

- What is an outdoor small cell? What are metrocells, RRHs and oDAS?
- What is an indoor small cell? What are femtocells, picocells and iDAS?
- What is a DAS?
- Why do the mobile networks need iDAS and oDAS?
- How does DAS fit into operators' evolving networks?
- What are the issues with deploying DAS in the U.S.? How do these issues impact the number of small cells in the market?
- What is the role of CPRI with iDAS and oDAS?
- How is DAS changing/evolving?
- Where are DAS nodes most likely to be located? What's their role?

The information in this market study will be valuable for:

- Mobile operators
- Infrastructure OEMs
- Small cell product and solution vendors
- Backhaul service providers and equipment OEMs
- Financial and investment analysts.

The new report can be [purchased](#) and downloaded directly from *iGR's* website at www.iGR-inc.com.

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: smartphones; tablets; mobile wearable devices; connected cars; mobile applications; bandwidth demand and use; small cell and het-net architectures; mobile EPC and RAN virtualization; MEC; DAS; 5G; 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.